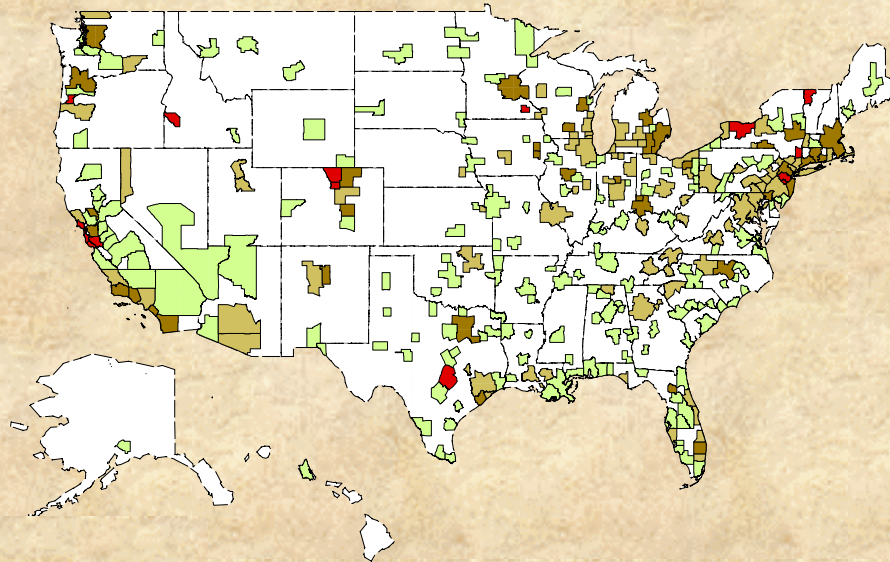


UNITED STATES PATENT GRANTS---
Number of Grants per 100,000 Population,
By Metropolitan Area, 1998



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UNITED STATES PATENT GRANTS—

Number of Grants per 100,000 Population, by Metropolitan Area, 1998

This report, prepared by the Technology Assessment and Forecast Branch of the United States Patent and Trademark Office (USPTO), presents the number of patent grants and the number of patents granted per 100,000 population in each metropolitan area in 1998. Levels of patent activity are provided in map and tabular presentations.

The geographic distribution of patents is based on the residence of the inventor whose name appears first on the printed patent. The types of patents included in this report include utility, design, and plant. Separate presentations are provided for utility and design patents granted to independent inventors (i.e., the patent was unassigned or assigned to an individual at the time of issue).

The patent data used to prepare this report were derived from the USPTO's Technology Assessment and Forecast database. Records in this relational database contain patent status and bibliographic information that is used by the Technology Assessment and Forecast Branch to develop statistical summaries of patent activity. A general description of the methodology used to generate the geographic distributions of patent activity in this report is contained in the sections that follow.

The population data used to compute patent counts per 100,000 population are the estimated populations of each metropolitan area on July 1, 1998. Data were obtained from the U.S. Census Bureau, Population Estimates Program, Population Division, Washington, DC 20233

For additional information about this report, or other patent data that are available from the Technology Assessment and Forecast Branch, please contact the Technology Assessment and Forecast Branch by telephone at (703) 306-2600, or by facsimile at (703) 306-2737. Technology Assessment and Forecast reports can be viewed or downloaded from our web site at <http://www.uspto.gov/web/offices/ac/ido/oeip/taf/tafp.html>. Written correspondence should be addressed to: USPTO, Technology Assessment and Forecast Branch, PK3--Suite 441, Washington, DC 20231

CONTENTS

Thematic maps that depict levels of patent activity within each metropolitan area are accompanied by tabular presentations that show: metropolitan area name, number of patents granted in 1998, population in 1998, and patents granted per 100,000 population. Maps and tabular presentations are provided for the following types of patent grants:

- Utility
- Design
- Plant
- Utility (independent inventors only)
- Design (independent inventors only)

DATA SOURCES AND METHODOLOGY

The distributions of patents by metropolitan area are derived from a distribution of patents at the county level. Unfortunately, the inventor county of residence seldom appears on patent records. Most patent records show only the inventor city and state of residence. Full address information, including zip code, is present only when an individual (as opposed to an organization) owns the patent. Less than one quarter of the patents awarded to U.S. resident inventors are individually owned. Therefore, a distribution of patents by county is, to a large extent, based on inventor city and state data.

The methodology used to determine inventor county of residence involves matching the inventor city, state, and zip code (if present) with corresponding data from a geographic reference file that also contains the county location of each combination of city, state, and zip code in the United States.

The geographic reference file used by USPTO to determine inventor county of residence contains 185,000 records that identify the city, state, zip code, and county location of populated places in the United States. This file was developed from three data sources:

- Federal Information Processing Standards Publication 55: Guideline: Codes for Named Populated Places, Primary County Divisions, and Other Locational Entities of the United States and Outlying Areas (Department of Commerce, National Institute of Standards and Technology);
- the *Geographic Names Information System* (U.S. Department of the Interior, U.S. Geological Survey); and
- a data file based on the 1990 City-State file developed by the United States Postal Service.

Additional records are continuously added to the geographic reference file to reflect naming conventions that frequently appear on patent records, such as abbreviations (e.g., “hgts.”, “heights” or “hts.”). New records for frequently misspelled city names (e.g., “Tucson” or “Tuscon”), and for new zip codes are also added to the reference file.

About 88% of utility patents can be associated with one specific county by matching inventor address information with records in the geographic reference file. The remaining 12% of utility patents contain inventor addresses that correspond to two or more counties. Usually, this situation occurs when the inventor address corresponds to a single, populated place that spans multiple counties. Occasionally, this situation can occur when the inventor address corresponds to two or more places within a state that share the same name. In some states, for example, the same township name can appear in ten or more counties.¹ A relatively small number of utility patents (.02% of total patents issued) can not be associated with any county due to insufficient or incorrect inventor address information.

The program that matches inventor address data to geographic reference data also assigns a weight to each patent to indicate the number of counties associated with that patent. When a patent is associated with a single county, the county weight equals “1.” When a patent is associated with multiple counties within a state, a fractional weight is assigned (e.g., .5 = two counties; .33 = three counties, etc.). Patent counts for each county are calculated from the sum of these weights. State and metropolitan area counts are calculated from the appropriate county totals.

¹ Although relatively few patents contain place names that correspond to multiple places within a single state, this can be a source of error in patent counts for some counties. This is particularly true if a larger city with a high volume of patent activity shares the same name as a small town with little or no patent activity (e.g., Mountain View, CA). The procedure for identifying these situations was to first identify any incorporated place, census designated place or minor civil division with a 1990 population of 2,500 or more inhabitants. These place names were then compared to place names on the geographic reference file to identify multiple places with the same name within each state. The resulting place names were queried on USPTO’s Automated Patent System to determine if patents were issued to inventors in one or more of the places with the same name. The residence of other inventors and assignees was used to determine the probable geographic location of each patent. If research indicated high patent activity was concentrated in some, but not all of the locations, duplicate place names without patent activity were deleted from the geographic reference file.

METROPOLITAN AREAS

The numbers of patents awarded to inventors within a county do not necessarily reflect the level of inventive activity that is occurring within that county. County totals are based on inventor county of *residence*, which is not necessarily the same as the inventor county of employment. A distribution of patent activity by metropolitan area is, by definition, more likely to encompass residential and employment areas.

A metropolitan area is a geographic area that contains a large population nucleus, plus surrounding communities with a high degree of social and economic integration with that population nucleus. At a minimum, the population nucleus consists of a city or urbanized area with a population of at least 50,000 inhabitants.

The Office of Management and Budget established criteria to define several categories of metropolitan areas. These criteria consider factors such as percent urban, population density, and patterns of commuting to work to establish the limits of the metropolitan area. With the exception of the New England region, the geographic limits of a metropolitan area are defined by county boundaries. This facilitates the comparison of various socio-economic data that are compiled at the county level. In the New England region, cities and towns have a high degree of administrative importance and these are typically used to define the boundaries of a metropolitan area. One exception is the New England County Metropolitan Area (NECMA). The limits of a NECMA are defined by county boundaries, instead of cities and towns, in order to facilitate analysis of socio-economic data that can not be compiled at the sub-county level.

Other categories of metropolitan area include the Metropolitan Statistical Area (MSA), formerly known as a Standard Metropolitan Statistical Area, the Consolidated Metropolitan Statistical Area (CMSA), and the Primary Metropolitan Statistical Area (PMSA). Generally, an MSA includes a city or urban area with at least 50,000 inhabitants, plus surrounding counties (or subcounties in New England) with metropolitan characteristics. The CMSA is a much larger metropolitan area with at least one million inhabitants and which meets certain other definitional criteria. CMSAs are composed of PMSAs and PMSAs are composed of counties (or subcounties in New England).

New metropolitan areas can be established or the geographic composition of current metropolitan areas can occur each year. The metropolitan areas identified in this report were announced by the Office of Management and Budget and were effective July 1, 1999. Some metropolitan areas in this report may not have been established in 1998.

Number of UTILITY patents granted per 100,000 population, by metropolitan area, 1998

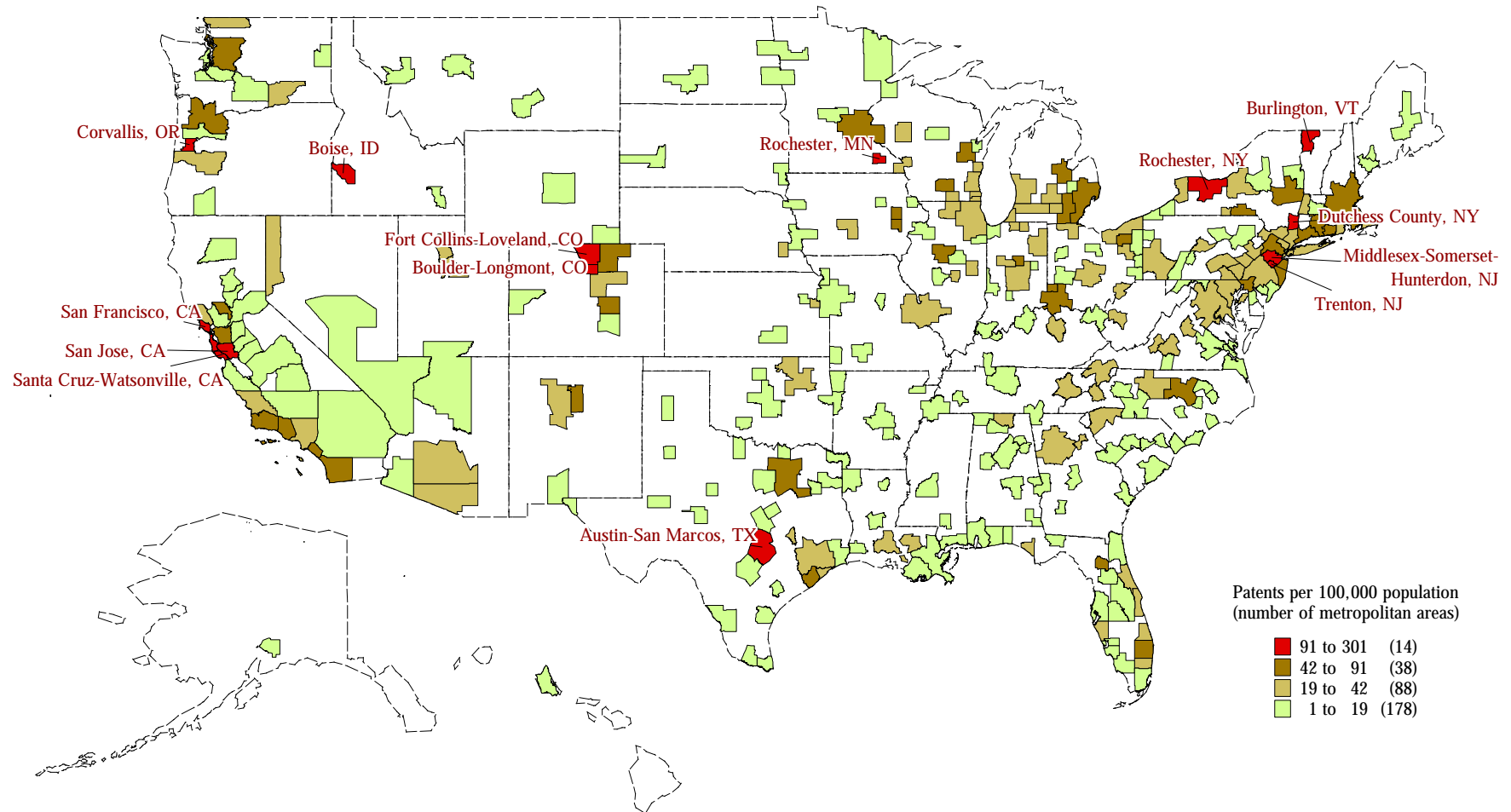


Table 1. Number of UTILITY Patents Granted per 100,000 Population, by Metropolitan Area, 1998

Metropolitan areas are based on definitions effective July 1, 1999. MSA= metropolitan statistical area; NECMA= New England county metropolitan area; PMSA= primary metropolitan statistical area. The geographic distribution of patents is based on the residence of the first-named inventor.

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.	Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
San Jose, CA PMSA	4931	1,641,215	300.4	Appleton-Oshkosh-Neenah, WI MSA	193	344,464	56.0
Boise City, ID MSA	748	395,953	188.9	Kokomo, IN MSA	56	100,176	55.9
Rochester, MN MSA	209	116,702	179.1	Seattle-Bellevue-Everett, WA PMSA	1275	2,312,978	55.1
Boulder-Longmont, CO PMSA	446	267,274	166.9	Orange County, CA PMSA	1484	2,721,701	54.5
Rochester, NY MSA	1749	1,081,883	161.7	Greeley, CO PMSA	86	159,429	53.9
Corvallis, OR MSA	109	77,755	140.2	Albany-Schenectady-Troy, NY MSA	467	871,604	53.6
Austin-San Marcos, TX MSA	1440	1,105,909	130.2	Yolo, CA PMSA	81	153,849	52.6
Burlington, VT NECMA	246	192,895	127.5	Santa Fe, NM MSA	74	141,730	52.2
Dutchess County, NY PMSA	329	265,317	124.0	New London-Norwich, CT NECMA	128	245,740	52.1
Fort Collins-Loveland, CO MSA	271	231,221	117.2	Portland-Vancouver, OR-WA PMSA	948	1,818,955	52.1
Trenton, NJ PMSA	361	331,629	108.9	Newark, NJ PMSA	1014	1,952,407	51.9
San Francisco, CA PMSA	1705	1,683,309	101.3	Gainesville, FL MSA	102	198,662	51.3
Santa Cruz-Watsonville, CA PMSA	243	242,994	100.0	Peoria-Pekin, IL MSA	177	344,779	51.3
Middlesex-Somerset-Hunterdon, NJ PMSA	1027	1,121,504	91.6	Brazoria, TX PMSA	116	230,335	50.4
Binghamton, NY MSA	191	249,022	76.7	Cedar Rapids, IA MSA	92	182,651	50.4
Raleigh-Durham-Chapel Hill, NC MSA	828	1,079,873	76.7	Dallas, TX PMSA	1471	3,209,886	45.8
Wilmington-Newark, DE-MD PMSA	413	565,329	73.1	Iowa City, IA MSA	47	102,724	45.8
Minneapolis-St. Paul, MN-WI MSA	2051	2,831,234	72.4	Hartford, CT NECMA	507	1,110,065	45.7
Ann Arbor, MI PMSA	388	547,646	70.8	West Palm Beach-Boca Raton, FL MSA	472	1,032,625	45.7
Oakland, CA PMSA	1461	2,318,522	63.0	Monmouth-Ocean, NJ PMSA	497	1,093,253	45.5
Boston-Worcester-Lawrence-Lowell-				Cincinnati, OH-KY-IN PMSA	714	1,617,836	44.1
Brockton, MA-NH NECMA	3687	5,867,187	62.8	Ventura, CA PMSA	320	731,967	43.7
New Haven-Bridgeport-Stamford-Danbury-				Akron, OH PMSA	298	688,952	43.3
Waterbury, CT NECMA	1024	1,631,866	62.8	Detroit, MI PMSA	1913	4,473,853	42.8
Santa Barbara-Santa Maria-Lompoc, CA MSA	241	389,502	61.9	Phoenix-Mesa, AZ MSA	1182	2,931,004	40.3
Saginaw-Bay City-Midland, MI MSA	246	401,991	61.2	Sheboygan, WI MSA	44	110,170	39.9
Madison, WI MSA	258	424,586	60.8	Allentown-Bethlehem-Easton, PA MSA	244	616,877	39.6
San Diego, CA MSA	1673	2,780,592	60.2	Elmira, NY MSA	36	92,021	39.1
Hamilton-Middletown, OH PMSA	190	330,428	57.5	Racine, WI PMSA	71	186,119	38.1
Colorado Springs, CO MSA	278	490,378	56.7	Lafayette, IN MSA	65	172,220	37.7

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Chicago, IL PMSA	2959	7,939,351	37.3
Salt Lake City-Ogden, UT MSA	472	1,267,745	37.2
Houston, TX PMSA	1445	3,931,688	36.8
Daytona Beach, FL MSA	348	948,522	36.7
Rockford, IL MSA	131	356,887	36.7
Indianapolis, IN MSA	556	1,519,194	36.6
Bergen-Passaic, NJ PMSA	481	1,344,266	35.8
Grand Rapids-Muskegon-Holland, MI MSA	368	1,037,933	35.5
Philadelphia, PA-NJ PMSA	1758	4,946,562	35.5
Milwaukee-Waukesha, WI PMSA	502	1,459,805	34.4
Cleveland-Lorain-Elyria, OH PMSA	755	2,222,731	34.0
Richland-Kennewick-Pasco, WA MSA	62	182,709	33.9
State College, PA MSA	45	132,700	33.9
Albuquerque, NM MSA	228	678,633	33.6
Champaign-Urbana, IL MSA	56	167,788	33.4
Eau Claire, WI MSA	48	143,861	33.4
Huntsville, AL MSA	110	340,428	32.3
Charlottesville, VA MSA	48	149,190	32.2
Reno, NV MSA	101	313,660	32.2
Tucson, AZ MSA	250	790,755	31.6
Pittsburgh, PA MSA	736	2,346,153	31.4
Canton-Massillon, OH MSA	124	402,207	30.8
Melbourne-Titusville-Palm Bay, FL MSA	143	466,093	30.7
Athens, GA MSA	42	138,679	30.3
Toledo, OH MSA	185	609,935	30.3
Denver, CO PMSA	581	1,938,642	30.0
Parkersburg-Marietta, WV-OH MSA	45	150,181	30.0
Elkhart-Goshen, IN MSA	51	172,310	29.6
South Bend, IN MSA	76	258,088	29.4
Des Moines, IA MSA	128	436,922	29.3
Lincoln, NE MSA	69	235,589	29.3
Lynchburg, VA MSA	61	208,039	29.3
Fort Wayne, IN MSA	140	481,191	29.1
St. Louis, MO-IL MSA	743	2,563,801	29.0
Lexington, KY MSA	129	449,645	28.7
Nassau-Suffolk, NY PMSA	768	2,673,489	28.7
Greenville-Spartanburg-Anderson, SC MSA	261	918,351	28.4
Santa Rosa, CA PMSA	122	433,304	28.2
Atlanta, GA MSA	1034	3,746,059	27.6

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Knoxville, TN MSA	182	659,074	27.6
Washington, DC-MD-VA-WV PMSA	1292	4,673,902	27.6
Baton Rouge, LA MSA	158	575,129	27.5
Benton Harbor, MI MSA	44	160,245	27.5
Provo-Orem, UT MSA	92	335,635	27.4
Buffalo-Niagra Falls, NY MSA	315	1,152,541	27.3
Bryan-College Station, TX MSA	36	133,407	27.0
Kalamazoo-Battle Creek, MI MSA	120	446,331	26.9
San Luis Obispo-Atascadero-Paso Robles, CA MSA	63	234,366	26.9
Bellingham, WA MSA	42	156,830	26.8
Lancaster, PA MSA	121	456,414	26.5
Newburgh, NY-PA PMSA	98	369,392	26.5
Decatur, IL MSA	30	113,772	26.4
Baltimore, MD PMSA	647	2,483,952	26.0
Johnson City-Kingsport-Bristol, TN-VA MSA	120	462,345	26.0
Lansing-East Lansing, MI MSA	116	449,683	25.8
Jackson, MI MSA	40	156,157	25.6
Los Angeles-Long Beach, CA PMSA	2335	9,213,533	25.3
Janesville-Beloit, WI MSA	38	150,736	25.2
York, PA MSA	94	373,255	25.2
Lawrence, KS MSA	23	93,137	24.7
Galveston-Texas City TX PMSA	60	245,556	24.4
Providence-Warwick-Pawtucket, RI NECMA	221	905,612	24.4
Reading, PA MSA	87	355,956	24.4
Tulsa, OK MSA	189	776,906	24.3
Eugene-Springfield, OR MSA	76	314,068	24.2
Syracuse, NY MSA	176	734,640	24.0
Panama City, FL MSA	35	146,999	23.8
Barnstable-Yarmouth, MA NECMA	49	208,418	23.5
Harrisburg-Lebanon-Carlisle, PA MSA	145	616,031	23.5
Columbus, OH MSA	342	1,469,604	23.3
Fort Lauderdale, FL PMSA	349	1,503,407	23.2
Pittsfield, MA NECMA	30	133,038	22.5
Asheville, NC MSA	47	213,629	22.0
Charleston, WV MSA	55	253,175	21.7
Fort Pierce-Port St. Lucie, FL MSA	64	295,118	21.7
Kenosha, WI PMSA	31	144,339	21.5
Roanoke, VA MSA	48	227,828	21.1
La Crosse, WI-MN MSA	25	121,832	20.5

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Sarasota-Bradenton, FL MSA	111	543,082	20.4
New York, NY PMSA	1749	8,692,782	20.1
Greensboro--Winston-Salem--High Point, NC MSA	234	1,167,629	20.0
Lafayette, LA MSA	74	375,718	19.7
Sacramento, CA PMSA	289	1,531,963	18.9
Charlotte-Gastonia-Rock Hill, NC-SC MSA	257	1,383,080	18.6
Columbia, MO MSA	24	129,098	18.6
Fort Worth-Arlington, TX PMSA	297	1,592,577	18.6
Erie, PA MSA	51	276,401	18.5
Sherman-Denison, TX MSA	19	102,815	18.5
Springfield, MA NECMA	109	588,993	18.5
Wilmington, NC MSA	40	218,248	18.3
Greenville, NC MSA	23	126,630	18.2
Missoula, MT MSA	16	88,989	18.0
Williamsport, PA MSA	21	117,308	17.9
Portland, ME NECMA	45	253,582	17.7
Naples, FL MSA	35	199,436	17.5
Bloomington, IN MSA	20	115,130	17.4
Sioux City, IA-NE MSA	21	120,464	17.4
Evansville-Henderson, IN-KY MSA	49	290,757	16.9
Tampa-St. Petersburg-Clearwater, FL MSA	382	2,256,559	16.9
Fargo-Moorhead, ND-MN MSA	28	168,431	16.6
Flagstaff, AZ-UT MSA	20	120,371	16.6
Glens Falls, NY MSA	20	121,742	16.4
Sharon, PA MSA	20	121,938	16.4
Punta Gorda, FL MSA	22	134,899	16.3
Medford-Ashland, OR MSA	28	173,123	16.2
Bremerton, WA PMSA	37	232,623	15.9
Jamestown, NY MSA	22	138,103	15.9
Fort Myers-Cape Coral, FL MSA	62	392,895	15.8
Green Bay, WI MSA	34	215,373	15.8
Bloomington-Normal, IL MSA	22	142,652	15.4
Wausau, WI MSA	19	123,223	15.4
Utica-Rome, NY MSA	45	294,677	15.3
Florence, SC MSA	19	124,904	15.2
Orlando, FL MSA	229	1,504,569	15.2
Wichita, KS MSA	82	544,343	15.1
Auburn-Opelika, AL MSA	15	100,444	14.9
Dubuque, IA MSA	13	87,806	14.8

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Youngstown-Warren, OH MSA	85	591,752	14.4
Hickory-Morganton-Lenoir, NC MSA	46	322,608	14.3
Jersey City, NJ PMSA	79	557,159	14.2
Davenport-Moline-Rock Island, IA-IL MSA	50	357,813	14.0
Flint, MI PMSA	61	436,084	14.0
Charleston-North Charleston, SC MSA	75	541,159	13.9
Kansas City, MO-KS MSA	240	1,737,025	13.8
Tallahassee, FL MSA	36	261,021	13.8
Jacksonville, FL MSA	141	1,044,684	13.5
Memphis, TN-AR-MS MSA	145	1,093,427	13.3
Columbia, SC MSA	67	512,316	13.1
Richmond-Petersburg, VA MSA	125	957,032	13.1
Scranton--Wilkes-Barre--Hazleton, PA MSA	80	615,491	13.0
San Antonio, TX MSA	197	1,538,338	12.8
Casper, WY MSA	8	63,341	12.6
Fayetteville-Springdale-Rogers, AR MSA	34	272,616	12.5
Oklahoma City, OK MSA	130	1,038,999	12.5
Salinas, CA MSA	45	365,605	12.3
St. Cloud, MN MSA	20	162,222	12.3
Vallejo-Fairfield-Napa, CA PMSA	61	496,703	12.3
Anchorage, AK MSA	31	254,982	12.2
Spokane, WA MSA	50	408,669	12.2
Joplin, MO MSA	18	148,684	12.1
Louisville, KY-IN MSA	121	999,267	12.1
Omaha, NE-IA MSA	84	693,900	12.1
Longview-Marshall, TX MSA	25	208,988	12.0
Jackson, TN MSA	12	100,654	11.9
Tyler, TX MSA	20	168,783	11.8
Waterloo-Cedar Falls, IA MSA	14	121,121	11.6
Dayton-Springfield, OH MSA	54	470,864	11.5
Chattanooga, TN-GA MSA	51	450,283	11.3
Chico-Paradise, CA MSA	22	194,597	11.3
Riverside-San Bernardino, CA PMSA	353	3,114,072	11.3
Grand Forks, ND-MN MSA	11	97,823	11.2
Nashville, TN MSA	129	1,156,225	11.2
Ocala, FL MSA	27	241,513	11.2
Salem, OR PMSA	37	330,101	11.2
Sioux Falls, SD MSA	18	163,422	11.0
Jackson, MS MSA	47	429,614	10.9

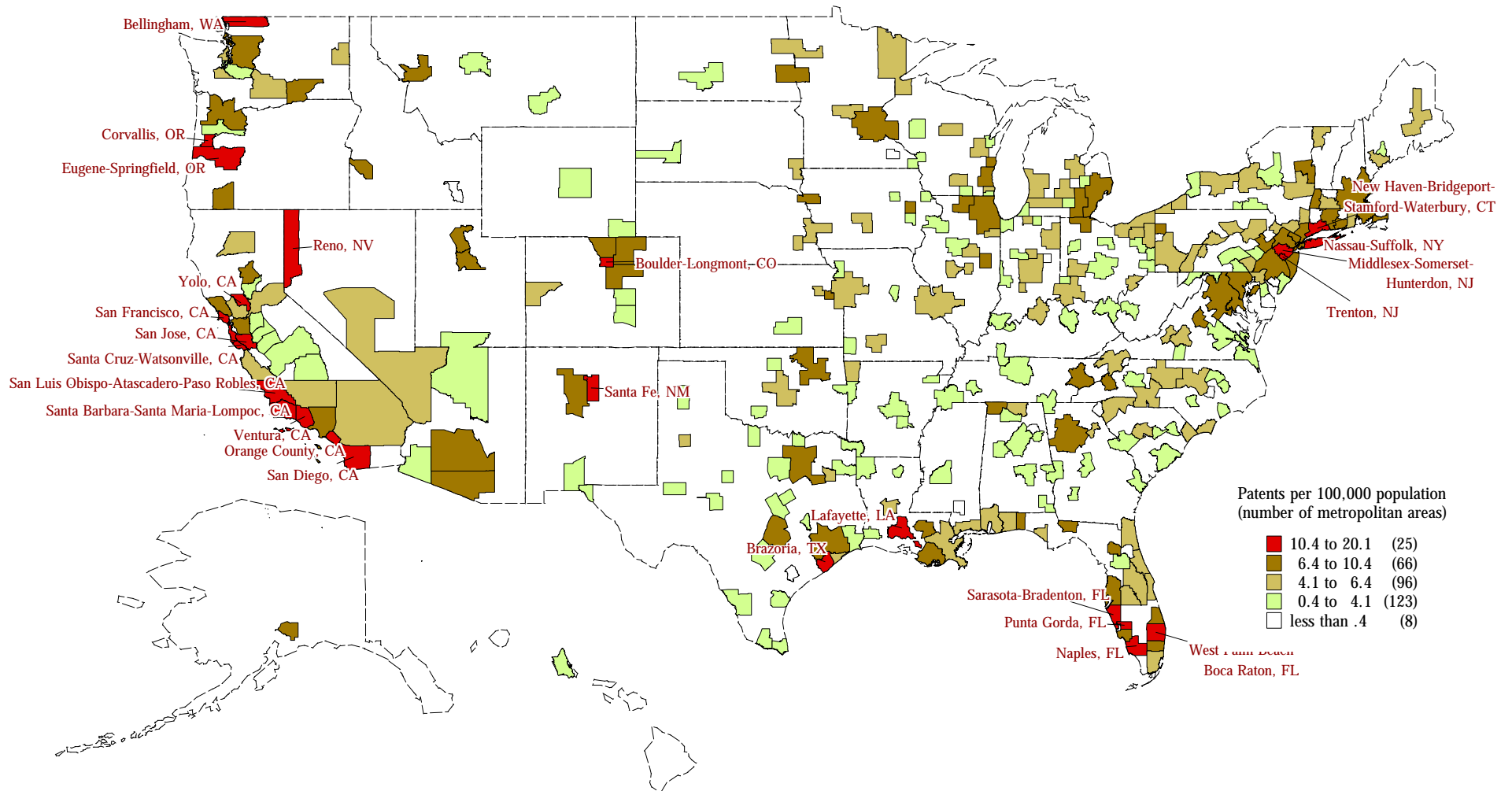
Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Kankakee, IL PMSA	11	102,107	10.8
Terre Haute, IN MSA	16	148,628	10.8
Las Vegas, NV-AZ MSA	141	1,321,546	10.7
Miami, FL PMSA	231	2,152,437	10.7
Lubbock, TX MSA	24	229,475	10.5
Mobile, AL MSA	56	532,257	10.5
Springfield, MO MSA	32	304,863	10.5
Steubenville-Weirton, OH-WV MSA	14	134,535	10.4
Bakersfield, CA MSA	65	631,459	10.3
Hagerstown, MD PMSA	13	127,352	10.2
New Orleans, LA MSA	131	1,309,445	10.0
Mansfield, OH MSA	17	174,559	9.7
Yakima, WA MSA	21	218,062	9.6
Florence, AL MSA	13	137,271	9.5
Houma, LA MSA	18	193,858	9.3
Johnstown, PA MSA	22	236,347	9.3
Norfolk-Virginia Beach-Newport News, VA-NC MSA	143	1,542,143	9.3
Atlantic-Cape May, NJ PMSA	31	336,116	9.2
Amarillo, TX MSA	19	208,607	9.1
Decatur, AL MSA	13	142,816	9.1
Topeka, KS MSA	15	165,348	9.1
Dothan, AL MSA	12	134,749	8.9
Dover, DE MSA	11	124,089	8.9
Fort Walton Beach, FL MSA	15	169,289	8.9
Las Cruces, NM MSA	15	169,165	8.9
Beaumont-Port Arthur, TX MSA	33	375,564	8.8
Gary, IN PMSA	55	624,049	8.8
Birmingham, AL MSA	79	908,508	8.7
Muncie, IN MSA	10	116,828	8.6
Myrtle Beach, SC MSA	15	174,762	8.6
Odessa-Midland, TX MSA	21	245,376	8.6
Corpus Christi, TX MSA	33	387,733	8.5
Redding, CA MSA	14	164,349	8.5
Wheeling, WV-OH MSA	13	152,903	8.5
Lakeland-Winter Haven, FL MSA	38	452,584	8.4
Augusta-Aiken, GA-SC MSA	38	458,271	8.3
Little Rock-North Little Rock, AR MSA	46	556,295	8.3
Pensacola, FL MSA	33	399,625	8.3
Fort Smith, AR-OK MSA	16	194,045	8.2

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Modesto, CA MSA	35	426,460	8.2
Duluth-Superior, MN-WI MSA	19	236,464	8.0
Stockton-Lodi, CA MSA	44	550,445	8.0
Wichita Falls, TX MSA	11	137,237	8.0
Alexandria, LA MSA	10	126,763	7.9
Lake Charles, LA MSA	14	180,330	7.8
Springfield, IL MSA	16	203,847	7.8
Cheyenne, WY MSA	6	78,872	7.6
Olympia, WA PMSA	15	202,255	7.4
Killeen-Temple, TX MSA	22	301,449	7.3
Hattiesburg, MS MSA	8	111,252	7.2
Macon, GA MSA	23	319,502	7.2
Tacoma-WA PMSA	49	676,505	7.2
Grand Junction, CO MSA	8	112,891	7.1
Savannah, GA MSA	19	285,508	6.7
Shreveport-Bossier City, LA MSA	25	378,641	6.6
St. Joseph, MO MSA	6	97,338	6.2
Altoona, PA MSA	8	130,615	6.1
Fresno, CA MSA	53	870,478	6.1
Huntington-Ashland, WV-KY-OH MSA	19	313,922	6.1
Monroe, LA MSA	9	146,979	6.1
Lewiston-Auburn, ME NECMA	6	101,280	5.9
Waco, TX MSA	12	203,446	5.9
Lima, OH MSA	9	154,242	5.8
Biloxi-Gulfport-Pascagoula, MS MSA	20	349,218	5.7
Bangor, ME NECMA	8	142,323	5.6
Danville, VA MSA	6	108,252	5.5
Honolulu, HI MSA	47	872,478	5.4
Montgomery, AL MSA	17	321,781	5.3
Great Falls, MT MSA	4	78,983	5.1
Clarksville-Hopkinsville, TN-KY MSA	10	199,758	5.0
San Angelo, TX MSA	5	102,775	4.9
Victoria, TX MSA	4	82,650	4.8
Sumter, SC MSA	5	107,127	4.7
Pueblo, CO MSA	6	134,867	4.4
Vineland-Millville-Bridgeton, NJ PMSA	6	140,341	4.3
Albany, GA MSA	5	118,076	4.2
Billings, MT MSA	5	126,158	4.0
Merced, CA MSA	8	197,730	4.0

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Pocatello, ID MSA	3	74,866	4.0
Jonesboro, AR MSA	3	77,500	3.9
Visalia-Tulare-Porterville, CA MSA	14	355,240	3.9
Yuma, AZ MSA	5	132,259	3.8
El Paso, TX MSA	25	703,127	3.6
Fayetteville, NC MSA	10	284,629	3.5
Lawton, OK MSA	4	113,508	3.5
Abilene, TX MSA	4	122,016	3.3
Bismarck, ND MSA	3	91,442	3.3
Columbus, GA-AL MSA	9	272,133	3.3
Cumberland, MD-WV MSA	3	98,070	3.1
Jacksonville, NC MSA	4	142,358	2.8
Goldsboro, NC MSA	3	112,227	2.7

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Rocky Mount, NC MSA	4	146,167	2.7
Anniston, AL MSA	3	117,018	2.6
Tuscaloosa, AL MSA	4	160,768	2.5
Texarkana, TX-Texarkana, AR MSA	3	123,366	2.4
Rapid City, SD MSA	2	87,702	2.3
Owensboro, KY MSA	2	91,139	2.2
Yuba City, CA MSA	3	137,043	2.2
Brownsville-Harlingen-San Benito, TX MSA	6	326,449	1.8
Enid, OK MSA	1	56,859	1.8
Laredo, TX MSA	3	188,166	1.6
Pine Bluff, AR MSA	1	81,556	1.2
Gadsden, AL MSA	1	103,975	1.0
McAllen-Edinburg-Mission, TX MSA	5	522,204	1.0

Number of UTILITY patents granted per 100,000 population by metropolitan area, 1998 (independent inventors only)



**Table 4. Number of UTILITY Patents Granted per 100,000 Population, by Metropolitan Area, 1998
(Independent Inventors Only)**

Metropolitan areas are based on definitions effective July 1, 1999. MSA= metropolitan statistical area; NECMA= New England county metropolitan area; PMSA= primary metropolitan statistical area. The geographic distribution of patents is based on the residence of the first-named inventor.

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.	Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Reno, NV MSA	63	313,660	20.1	Lawrence, KS MSA	9	93,137	9.7
San Jose, CA PMSA	318	1,641,215	19.4	Boise City, ID MSA	38	395,953	9.6
Bellingham, WA MSA	26	156,830	16.6	Bergen-Passaic, NJ PMSA	128	1,344,266	9.5
Orange County, CA PMSA	448	2,721,701	16.5	Fort Pierce-Port St. Lucie, FL MSA	28	295,118	9.5
West Palm Beach-Boca Raton, FL MSA	168	1,032,625	16.3	Minneapolis-St. Paul, MN-WI MSA	266	2,831,234	9.4
Boulder-Longmont, CO PMSA	42	267,274	15.7	Monmouth-Ocean, NJ PMSA	103	1,093,253	9.4
Santa Barbara-Santa Maria-Lompoc, CA MSA	56	389,502	14.4	Denver, CO PMSA	181	1,938,642	9.3
San Francisco, CA PMSA	239	1,683,309	14.2	Sheboygan, WI MSA	10	110,170	9.1
Corvallis, OR MSA	11	77,755	14.1	Fort Lauderdale, FL PMSA	134	1,503,407	8.9
San Luis Obispo-Atascadero-Paso Robles, CA MSA	31	234,366	13.2	Los Angeles-Long Beach, CA PMSA	816	9,213,533	8.9
Santa Fe, NM MSA	18	141,730	12.7	Salt Lake City-Ogden, UT MSA	113	1,267,745	8.9
Naples, FL MSA	25	199,436	12.5	Oakland, CA PMSA	204	2,318,522	8.8
Santa Cruz-Watsonville, CA PMSA	30	242,994	12.3	Boston-Worcester-Lawrence-Lowell-			
Lafayette, LA MSA	45	375,718	12.0	Brockton, MA-NH NECMA	503	5,867,187	8.6
Sarasota-Bradenton, FL MSA	65	543,082	12.0	Gainesville, FL MSA	17	198,662	8.6
Punta Gorda, FL MSA	16	134,899	11.9	Provo-Orem, UT MSA	29	335,635	8.6
New Haven-Bridgeport-Stamford-Danbury-				Tallahassee, FL MSA	22	261,021	8.4
Waterbury, CT NECMA	192	1,631,866	11.8	Houston, TX PMSA	328	3,931,688	8.3
Trenton, NJ PMSA	39	331,629	11.8	Austin-San Marcos, TX MSA	91	1,105,909	8.2
Nassau-Suffolk, NY PMSA	310	2,673,489	11.6	Phoenix-Mesa, AZ MSA	236	2,931,004	8.1
Eugene-Springfield, OR MSA	36	314,068	11.5	Santa Rosa, CA PMSA	35	433,304	8.1
San Diego, CA MSA	315	2,780,592	11.3	Detroit, MI PMSA	354	4,473,853	7.9
Middlesex-Somerset-Hunterdon, NJ PMSA	126	1,121,504	11.2	Fort Myers-Cape Coral, FL MSA	31	392,895	7.9
Ventura, CA PMSA	81	731,967	11.1	Tampa-St. Petersburg-Clearwater, FL MSA	178	2,256,559	7.9
Brazoria, TX PMSA	24	230,335	10.4	Philadelphia, PA-NJ PMSA	388	4,946,562	7.8
Yolo, CA PMSA	16	153,849	10.4	Chico-Paradise, CA MSA	15	194,597	7.7
Barnstable-Yarmouth, MA NECMA	21	208,418	10.1	Seattle-Bellevue-Everett, WA PMSA	175	2,312,978	7.6
Missoula, MT MSA	9	88,989	10.1	Tucson, AZ MSA	60	790,755	7.6
Ann Arbor, MI PMSA	55	547,646	10.0	Asheville, NC MSA	16	213,629	7.5
Medford-Ashland, OR MSA	17	173,123	9.8	Greeley, CO PMSA	12	159,429	7.5
Pittsfield, MA NECMA	10	133,038	7.5	Panama City, FL MSA	9	146,999	6.1

Utility (independent inventors)

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Sioux City, IA-NE MSA	9	120,464	7.5
Washington, DC-MD-VA-WV PMSA	352	4,673,902	7.5
Fort Collins-Loveland, CO MSA	17	231,221	7.4
Milwaukee-Waukesha, WI PMSA	108	1,459,805	7.4
Sharon, PA MSA	9	121,938	7.4
Baltimore, MD PMSA	180	2,483,952	7.2
Chicago, IL PMSA	572	7,939,351	7.2
Hartford, CT NECMA	80	1,110,065	7.2
Dallas, TX PMSA	228	3,209,886	7.1
Fargo-Moorhead, ND-MN MSA	12	168,431	7.1
Fort Walton Beach, FL MSA	12	169,289	7.1
Newark, NJ PMSA	138	1,952,407	7.1
Richland-Kennewick-Pasco, WA MSA	13	182,709	7.1
Baton Rouge, LA MSA	40	575,129	7.0
Jersey City, NJ PMSA	39	557,159	7.0
Portland-Vancouver, OR-WA PMSA	128	1,818,955	7.0
New London-Norwich, CT NECMA	17	245,740	6.9
Knoxville, TN MSA	45	659,074	6.8
Anchorage, AK MSA	17	254,982	6.7
Charlottesville, VA MSA	10	149,190	6.7
Houma, LA MSA	13	193,858	6.7
Albuquerque, NM MSA	45	678,633	6.6
Allentown-Bethlehem-Easton, PA MSA	41	616,877	6.6
Cedar Rapids, IA MSA	12	182,651	6.6
Champaign-Urbana, IL MSA	11	167,788	6.6
Florence, AL MSA	9	137,271	6.6
Glens Falls, NY MSA	8	121,742	6.6
Atlanta, GA MSA	242	3,746,059	6.5
New York, NY PMSA	559	8,692,782	6.4
Rockford, IL MSA	23	356,887	6.4
Toledo, OH MSA	39	609,935	6.4
Tulsa, OK MSA	50	776,906	6.4
Johnson City-Kingsport-Bristol, TN-VA MSA	29	462,345	6.3
Erie, PA MSA	17	276,401	6.2
Huntsville, AL MSA	21	340,428	6.2
Orlando, FL MSA	94	1,504,569	6.2
Grand Forks, ND-MN MSA	6	97,823	6.1
Lubbock, TX MSA	14	229,475	6.1
Portland, ME NECMA	13	253,582	5.1

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Dutchess County, NY PMSA	16	265,317	6.0
New Orleans, LA MSA	78	1,309,445	6.0
Williamsport, PA MSA	7	117,308	6.0
Wilmington-Newark, DE-MD PMSA	34	565,329	6.0
Cleveland-Lorain-Elyria, OH PMSA	131	2,222,731	5.9
Kankakee, IL PMSA	6	102,107	5.9
Raleigh-Durham-Chapel Hill, NC MSA	64	1,079,873	5.9
Las Vegas, NV-AZ MSA	77	1,321,546	5.8
Mobile, AL MSA	31	532,257	5.8
Charlotte-Gastonia-Rock Hill, NC-SC MSA	79	1,383,080	5.7
Cincinnati, OH-KY-IN PMSA	92	1,617,836	5.7
Lancaster, PA MSA	26	456,414	5.7
St. Louis, MO-IL MSA	146	2,563,801	5.7
Wausau, WI MSA	7	123,223	5.7
Bangor, ME NECMA	8	142,323	5.6
Bremerton, WA PMSA	13	232,623	5.6
Greenville-Spartanburg-Anderson, SC MSA	51	918,351	5.6
Springfield, MO MSA	17	304,863	5.6
Alexandria, LA MSA	7	126,763	5.5
Dayton-Springfield, OH MSA	26	470,864	5.5
Pensacola, FL MSA	22	399,625	5.5
Redding, CA MSA	9	164,349	5.5
Wilmington, NC MSA	12	218,248	5.5
Jacksonville, FL MSA	56	1,044,684	5.4
Racine, WI PMSA	10	186,119	5.4
South Bend, IN MSA	14	258,088	5.4
Spokane, WA MSA	22	408,669	5.4
Columbia, SC MSA	27	512,316	5.3
Des Moines, IA MSA	23	436,922	5.3
Grand Junction, CO MSA	6	112,891	5.3
Akron, OH PMSA	36	688,952	5.2
Madison, WI MSA	22	424,586	5.2
Sacramento, CA PMSA	79	1,531,963	5.2
Saginaw-Bay City-Midland, MI MSA	21	401,991	5.2
Scranton--Wilkes-Barre--Hazleton, PA MSA	32	615,491	5.2
Lansing-East Lansing, MI MSA	23	449,683	5.1
Myrtle Beach, SC MSA	9	174,762	5.1
Pittsburgh, PA MSA	120	2,346,153	5.1
Jamestown, NY MSA	6	138,103	4.3

Utility (independent inventors)

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Kokomo, IN MSA	5	100,176	5.0
Riverside-San Bernardino, CA PMSA	157	3,114,072	5.0
Syracuse, NY MSA	37	734,640	5.0
Appleton-Oshkosh-Neenah, WI MSA	17	344,464	4.9
Bakersfield, CA MSA	31	631,459	4.9
Newburgh, NY-PA PMSA	18	369,392	4.9
Rochester, NY MSA	53	1,081,883	4.9
Springfield, IL MSA	10	203,847	4.9
Fayetteville-Springdale-Rogers, AR MSA	13	272,616	4.8
Lynchburg, VA MSA	10	208,039	4.8
Burlington, VT NECMA	9	192,895	4.7
Duluth-Superior, MN-WI MSA	11	236,464	4.7
Johnstown, PA MSA	11	236,347	4.7
Lincoln, NE MSA	11	235,589	4.7
Melbourne-Titusville-Palm Bay, FL MSA	22	466,093	4.7
Parkersburg-Marietta, WV-OH MSA	7	150,181	4.7
Youngstown-Warren, OH MSA	28	591,752	4.7
Altoona, PA MSA	6	130,615	4.6
Biloxi-Gulfport-Pascagoula, MS MSA	16	349,218	4.6
Fort Wayne, IN MSA	22	481,191	4.6
Miami, FL PMSA	99	2,152,437	4.6
Omaha, NE-IA MSA	32	693,900	4.6
Salinas, CA MSA	17	365,605	4.6
Vallejo-Fairfield-Napa, CA PMSA	23	496,703	4.6
Yakima, WA MSA	10	218,062	4.6
Daytona Beach, FL MSA	43	948,522	4.5
Greensboro--Winston-Salem--High Point, NC MSA	53	1,167,629	4.5
Kansas City, MO-KS MSA	78	1,737,025	4.5
State College, PA MSA	6	132,700	4.5
Albany-Schenectady-Troy, NY MSA	38	871,604	4.4
Decatur, IL MSA	5	113,772	4.4
Indianapolis, IN MSA	67	1,519,194	4.4
Lakeland-Winter Haven, FL MSA	20	452,584	4.4
Olympia, WA PMSA	9	202,255	4.4
Roanoke, VA MSA	10	227,828	4.4
Athens, GA MSA	6	138,679	4.3
Bloomington, IN MSA	5	115,130	4.3
Grand Rapids-Muskegon-Holland, MI MSA	45	1,037,933	4.3

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Kalamazoo-Battle Creek, MI MSA	19	446,331	4.3
Louisville, KY-IN MSA	43	999,267	4.3
Oklahoma City, OK MSA	45	1,038,999	4.3
Sioux Falls, SD MSA	7	163,422	4.3
St. Cloud, MN MSA	7	162,222	4.3
Bloomington-Normal, IL MSA	6	142,652	4.2
Providence-Warwick-Pawtucket, RI NECMA	38	905,612	4.2
Springfield, MA NECMA	25	588,993	4.2
Topeka, KS MSA	7	165,348	4.2
Galveston-Texas City TX PMSA	10	245,556	4.1
Tyler, TX MSA	7	168,783	4.1
Binghamton, NY MSA	10	249,022	4.0
Florence, SC MSA	5	124,904	4.0
Fort Worth-Arlington, TX PMSA	62	1,592,577	3.9
Hagerstown, MD PMSA	5	127,352	3.9
Lewiston-Auburn, ME NECMA	4	101,280	3.9
Reading, PA MSA	14	355,956	3.9
San Antonio, TX MSA	60	1,538,338	3.9
Sherman-Denison, TX MSA	4	102,815	3.9
Wichita, KS MSA	21	544,343	3.9
Buffalo-Niagra Falls, NY MSA	44	1,152,541	3.8
Cheyenne, WY MSA	3	78,872	3.8
Great Falls, MT MSA	3	78,983	3.8
Jackson, MI MSA	6	156,157	3.8
Longview-Marshall, TX MSA	8	208,988	3.8
Canton-Massillon, OH MSA	15	402,207	3.7
Dothan, AL MSA	5	134,749	3.7
Flint, MI PMSA	16	436,084	3.7
Harrisburg-Lebanon-Carlisle, PA MSA	23	616,031	3.7
Hickory-Morganton-Lenoir, NC MSA	12	322,608	3.7
Nashville, TN MSA	42	1,156,225	3.6
Charleston-North Charleston, SC MSA	19	541,159	3.5
Eau Claire, WI MSA	5	143,861	3.5
Jackson, MS MSA	15	429,614	3.5
Kenosha, WI PMSA	5	144,339	3.5
Las Cruces, NM MSA	6	169,165	3.5
Peoria-Pekin, IL MSA	12	344,779	3.5
York, PA MSA	13	373,255	3.5

Utility (independent inventors)

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Albany, GA MSA	4	118,076	3.4
Davenport-Moline-Rock Island, IA-IL MSA	12	357,813	3.4
Honolulu, HI MSA	30	872,478	3.4
Mansfield, OH MSA	6	174,559	3.4
Monroe, LA MSA	5	146,979	3.4
Atlantic-Cape May, NJ PMSA	11	336,116	3.3
Augusta-Aiken, GA-SC MSA	15	458,271	3.3
Columbus, OH MSA	49	1,469,604	3.3
Janesville-Beloit, WI MSA	5	150,736	3.3
Salem, OR PMSA	11	330,101	3.3
Casper, WY MSA	2	63,341	3.2
Charleston, WV MSA	8	253,175	3.2
Gary, IN PMSA	20	624,049	3.2
Greenville, NC MSA	4	126,630	3.2
Richmond-Petersburg, VA MSA	31	957,032	3.2
Shreveport-Bossier City, LA MSA	12	378,641	3.2
Corpus Christi, TX MSA	12	387,733	3.1
Auburn-Opelika, AL MSA	3	100,444	3.0
Bryan-College Station, TX MSA	4	133,407	3.0
Fresno, CA MSA	26	870,478	3.0
Steubenville-Weirton, OH-WV MSA	4	134,535	3.0
Amarillo, TX MSA	6	208,607	2.9
Beaumont-Port Arthur, TX MSA	11	375,564	2.9
Elkhart-Goshen, IN MSA	5	172,310	2.9
Huntington-Ashland, WV-KY-OH MSA	9	313,922	2.9
Iowa City, IA MSA	3	102,724	2.9
Lafayette, IN MSA	5	172,220	2.9
Little Rock-North Little Rock, AR MSA	16	556,295	2.9
Ocala, FL MSA	7	241,513	2.9
Odessa-Midland, TX MSA	7	245,376	2.9
Stockton-Lodi, CA MSA	16	550,445	2.9
Waco, TX MSA	6	203,446	2.9
Wichita Falls, TX MSA	4	137,237	2.9
Green Bay, WI MSA	6	215,373	2.8
Lake Charles, LA MSA	5	180,330	2.8
Montgomery, AL MSA	9	321,781	2.8
Tacoma-WA PMSA	19	676,505	2.8
Hamilton-Middletown, OH PMSA	9	330,428	2.7
Joplin, MO MSA	4	148,684	2.7

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Killeen-Temple, TX MSA	8	301,449	2.7
Lexington, KY MSA	12	449,645	2.7
Rocky Mount, NC MSA	4	146,167	2.7
Utica-Rome, NY MSA	8	294,677	2.7
Memphis, TN-AR-MS MSA	28	1,093,427	2.6
Modesto, CA MSA	11	426,460	2.6
Flagstaff, AZ-UT MSA	3	120,371	2.5
La Crosse, WI-MN MSA	3	121,832	2.5
Savannah, GA MSA	7	285,508	2.5
Waterloo-Cedar Falls, IA MSA	3	121,121	2.5
Billings, MT MSA	3	126,158	2.4
Birmingham, AL MSA	22	908,508	2.4
Chattanooga, TN-GA MSA	11	450,283	2.4
Evansville-Henderson, IN-KY MSA	7	290,757	2.4
Norfolk-Virginia Beach-Newport News, VA-NC MSA	37	1,542,143	2.4
Texarkana, TX-Texarkana, AR MSA	3	123,366	2.4
Columbia, MO MSA	3	129,098	2.3
Dubuque, IA MSA	2	87,806	2.3
Yuma, AZ MSA	3	132,259	2.3
Bismarck, ND MSA	2	91,442	2.2
Elmira, NY MSA	2	92,021	2.2
Decatur, AL MSA	3	142,816	2.1
Fort Smith, AR-OK MSA	4	194,045	2.1
Jacksonville, NC MSA	3	142,358	2.1
Clarksville-Hopkinsville, TN-KY MSA	4	199,758	2.0
Colorado Springs, CO MSA	10	490,378	2.0
Merced, CA MSA	4	197,730	2.0
Terre Haute, IN MSA	3	148,628	2.0
Lima, OH MSA	3	154,242	1.9
Enid, OK MSA	1	56,859	1.8
Fayetteville, NC MSA	5	284,629	1.8
Lawton, OK MSA	2	113,508	1.8
Visalia-Tulare-Porterville, CA MSA	6	355,240	1.7
Abilene, TX MSA	2	122,016	1.6
Columbus, GA-AL MSA	4	272,133	1.5
Pueblo, CO MSA	2	134,867	1.5
Yuba City, CA MSA	2	137,043	1.5
El Paso, TX MSA	10	703,127	1.4
Jonesboro, AR MSA	1	77,500	1.3

Utility (independent inventors)

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Macon, GA MSA	4	319,502	1.3
Benton Harbor, MI MSA	2	160,245	1.2
Pine Bluff, AR MSA	1	81,556	1.2
Tuscaloosa, AL MSA	2	160,768	1.2
Owensboro, KY MSA	1	91,139	1.1
Rapid City, SD MSA	1	87,702	1.1
Cumberland, MD-WV MSA	1	98,070	1.0
Jackson, TN MSA	1	100,654	1.0
San Angelo, TX MSA	1	102,775	1.0
St. Joseph, MO MSA	1	97,338	1.0
Anniston, AL MSA	1	117,018	0.9
Danville, VA MSA	1	108,252	0.9
Sumter, SC MSA	1	107,127	0.9

Metro Area Name	Utility Patents Granted	Population 1998	Patents per 100K pop.
Dover, DE MSA	1	124,089	0.8
McAllen-Edinburg-Mission, TX MSA	4	522,204	0.8
Wheeling, WV-OH MSA	1	152,903	0.7
Brownsville-Harlingen-San Benito, TX MSA	2	326,449	0.6
Laredo, TX MSA	1	188,166	0.5
Gadsden, AL MSA	0	103,975	0.0
Goldsboro, NC MSA	0	112,227	0.0
Hattiesburg, MS MSA	0	111,252	0.0
Muncie, IN MSA	0	116,828	0.0
Pocatello, ID MSA	0	74,866	0.0
Rochester, MN MSA	0	116,702	0.0
Victoria, TX MSA	0	82,650	0.0
Vineland-Millville-Bridgeton, NJ PMSA	0	140,341	0.0

Utility (independent inventors)

Number of DESIGN patents granted per 100,000 population,
by metropolitan area, 1998

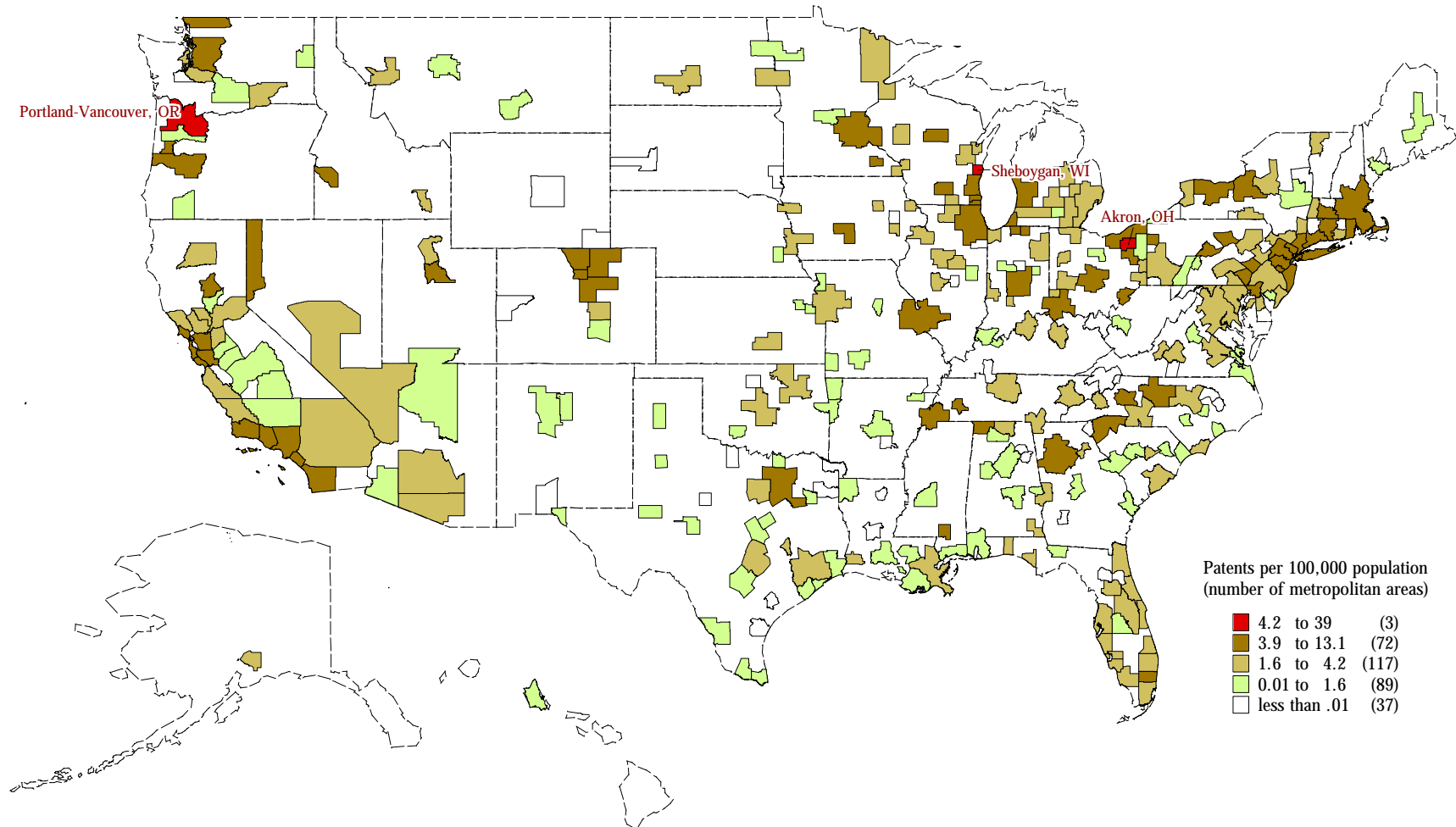


Table 2. Number of DESIGN Patents Granted per 100,000 Population, by Metropolitan Area, 1998

Metropolitan areas are based on definitions effective July 1, 1999. MSA= metropolitan statistical area; NECMA= New England county metropolitan area; PMSA= primary metropolitan statistical area. The geographic distribution of patents is based on the residence of the first-named inventor.

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.	Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Sheboygan, WI MSA	43	110,170	39.0	Canton-Massillon, OH MSA	27	402,207	6.7
Portland-Vancouver, OR-WA PMSA	309	1,818,955	17.0	Reading, PA MSA	24	355,956	6.7
Akron, OH PMSA	90	688,952	13.1	Des Moines, IA MSA	28	436,922	6.4
San Francisco, CA PMSA	168	1,683,309	10.0	Greenville-Spartanburg-Anderson, SC MSA	59	918,351	6.4
New Haven-Bridgeport-Stamford-Danbury- Waterbury, CT NECMA	162	1,631,866	9.9	Benton Harbor, MI MSA	10	160,245	6.2
Orange County, CA PMSA	266	2,721,701	9.8	Kenosha, WI PMSA	9	144,339	6.2
Boulder-Longmont, CO PMSA	26	267,274	9.7	Greensboro--Winston-Salem--High Point, NC MSA	71	1,167,629	6.1
Racine, WI PMSA	17	186,119	9.1	Seattle-Bellevue-Everett, WA PMSA	140	2,312,978	6.1
Minneapolis-St. Paul, MN-WI MSA	251	2,831,234	8.9	Fort Lauderdale, FL PMSA	87	1,503,407	5.8
Parkersburg-Marietta, WV-OH MSA	13	150,181	8.7	Nassau-Suffolk, NY PMSA	155	2,673,489	5.8
Reno, NV MSA	27	313,660	8.6	San Diego, CA MSA	162	2,780,592	5.8
San Jose, CA PMSA	139	1,641,215	8.5	Bellingham, WA MSA	9	156,830	5.7
State College, PA MSA	11	132,700	8.3	Bergen-Passaic, NJ PMSA	76	1,344,266	5.7
Wausau, WI MSA	10	123,223	8.1	Middlesex-Somerset-Hunterdon, NJ PMSA	64	1,121,504	5.7
Providence-Warwick-Pawtucket, RI NECMA	72	905,612	8.0	Milwaukee-Waukesha, WI PMSA	83	1,459,805	5.7
Hickory-Morganton-Lenoir, NC MSA	25	322,608	7.7	Columbus, OH MSA	82	1,469,604	5.6
South Bend, IN MSA	20	258,088	7.7	Greeley, CO PMSA	9	159,429	5.6
Ventura, CA PMSA	56	731,967	7.7	Hattiesburg, MS MSA	6	111,252	5.4
Eugene-Springfield, OR MSA	24	314,068	7.6	St. Louis, MO-IL MSA	137	2,563,801	5.3
Newark, NJ PMSA	148	1,952,407	7.6	Elkhart-Goshen, IN MSA	9	172,310	5.2
Los Angeles-Long Beach, CA PMSA	693	9,213,533	7.5	Boston-Worcester-Lawrence-Lowell- Brockton, MA-NH NECMA	301	5,867,187	5.1
Sharon, PA MSA	9	121,938	7.4	Corvallis, OR MSA	4	77,755	5.1
Florence, AL MSA	10	137,271	7.3	Jackson, TN MSA	5	100,654	5.0
Cleveland-Lorain-Elyria, OH PMSA	160	2,222,731	7.2	Memphis, TN-AR-MS MSA	55	1,093,427	5.0
Madison, WI MSA	30	424,586	7.1	Syracuse, NY MSA	37	734,640	5.0
Fort Collins-Loveland, CO MSA	16	231,221	6.9	Hartford, CT NECMA	54	1,110,065	4.9
Grand Rapids-Muskegon-Holland, MI MSA	72	1,037,933	6.9	New York, NY PMSA	430	8,692,782	4.9
Rochester, MN MSA	8	116,702	6.9	Santa Barbara-Santa Maria-Lompoc, CA MSA	19	389,502	4.9
Chicago, IL PMSA	536	7,939,351	6.8	Barnstable-Yarmouth, MA NECMA	10	208,418	4.8

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Boise City, ID MSA	19	395,953	4.8
Lancaster, PA MSA	22	456,414	4.8
Monmouth-Ocean, NJ PMSA	52	1,093,253	4.8
Rochester, NY MSA	52	1,081,883	4.8
Trenton, NJ PMSA	16	331,629	4.8
Wilmington-Newark, DE-MD PMSA	27	565,329	4.8
Indianapolis, IN MSA	72	1,519,194	4.7
Chico-Paradise, CA MSA	9	194,597	4.6
Cincinnati, OH-KY-IN PMSA	75	1,617,836	4.6
Denver, CO PMSA	88	1,938,642	4.5
Santa Cruz-Watsonville, CA PMSA	11	242,994	4.5
Dallas, TX PMSA	141	3,209,886	4.4
Oakland, CA PMSA	101	2,318,522	4.4
Atlanta, GA MSA	161	3,746,059	4.3
Williamsport, PA MSA	5	117,308	4.3
Provo-Orem, UT MSA	14	335,635	4.2
Springfield, MA NECMA	25	588,993	4.2
Huntsville, AL MSA	14	340,428	4.1
Orlando, FL MSA	61	1,504,569	4.1
Phoenix-Mesa, AZ MSA	120	2,931,004	4.1
Toledo, OH MSA	25	609,935	4.1
Daytona Beach, FL MSA	38	948,522	4.0
Naples, FL MSA	8	199,436	4.0
Roanoke, VA MSA	9	227,828	4.0
Appleton-Oshkosh-Neenah, WI MSA	13	344,464	3.8
San Luis Obispo-Atascadero-Paso Robles, CA MSA	9	234,366	3.8
Philadelphia, PA-NJ PMSA	185	4,946,562	3.7
Riverside-San Bernardino, CA PMSA	113	3,114,072	3.6
Eau Claire, WI MSA	5	143,861	3.5
Fort Wayne, IN MSA	17	481,191	3.5
Raleigh-Durham-Chapel Hill, NC MSA	38	1,079,873	3.5
Sacramento, CA PMSA	53	1,531,963	3.5
Santa Rosa, CA PMSA	15	433,304	3.5
Fort Worth-Arlington, TX PMSA	54	1,592,577	3.4
Tucson, AZ MSA	27	790,755	3.4
Utica-Rome, NY MSA	10	294,677	3.4
West Palm Beach-Boca Raton, FL MSA	35	1,032,625	3.4
Austin-San Marcos, TX MSA	37	1,105,909	3.3
La Crosse, WI-MN MSA	4	121,832	3.3

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Sarasota-Bradenton, FL MSA	18	543,082	3.3
Detroit, MI PMSA	143	4,473,853	3.2
Yolo, CA PMSA	5	153,849	3.2
Allentown-Bethlehem-Easton, PA MSA	19	616,877	3.1
Jersey City, NJ PMSA	17	557,159	3.1
Baltimore, MD PMSA	75	2,483,952	3.0
Bryan-College Station, TX MSA	4	133,407	3.0
Charlotte-Gastonia-Rock Hill, NC-SC MSA	42	1,383,080	3.0
Dothan, AL MSA	4	134,749	3.0
Omaha, NE-IA MSA	21	693,900	3.0
Punta Gorda, FL MSA	4	134,899	3.0
Iowa City, IA MSA	3	102,724	2.9
Lynchburg, VA MSA	6	208,039	2.9
Binghamton, NY MSA	7	249,022	2.8
Bloomington-Normal, IL MSA	4	142,652	2.8
Green Bay, WI MSA	6	215,373	2.8
Kansas City, MO-KS MSA	49	1,737,025	2.8
Salt Lake City-Ogden, UT MSA	35	1,267,745	2.8
Scranton--Wilkes-Barre--Hazleton, PA MSA	17	615,491	2.8
Sumter, SC MSA	3	107,127	2.8
Tacoma-WA PMSA	19	676,505	2.8
Tampa-St. Petersburg-Clearwater, FL MSA	64	2,256,559	2.8
Wichita, KS MSA	15	544,343	2.8
Atlantic-Cape May, NJ PMSA	9	336,116	2.7
Panama City, FL MSA	4	146,999	2.7
Pocatello, ID MSA	2	74,866	2.7
Terre Haute, IN MSA	4	148,628	2.7
Wilmington, NC MSA	6	218,248	2.7
York, PA MSA	10	373,255	2.7
Lima, OH MSA	4	154,242	2.6
Wheeling, WV-OH MSA	4	152,903	2.6
Duluth-Superior, MN-WI MSA	6	236,464	2.5
Miami, FL PMSA	53	2,152,437	2.5
Sioux City, IA-NE MSA	3	120,464	2.5
Anchorage, AK MSA	6	254,982	2.4
Dover, DE MSA	3	124,089	2.4
Fort Pierce-Port St. Lucie, FL MSA	7	295,118	2.4
Melbourne-Titusville-Palm Bay, FL MSA	11	466,093	2.4
Newburgh, NY-PA PMSA	9	369,392	2.4

Design

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Redding, CA MSA	4	164,349	2.4
Asheville, NC MSA	5	213,629	2.3
Dubuque, IA MSA	2	87,806	2.3
Dutchess County, NY PMSA	6	265,317	2.3
Knoxville, TN MSA	15	659,074	2.3
Oklahoma City, OK MSA	24	1,038,999	2.3
Pittsburgh, PA MSA	55	2,346,153	2.3
Pittsfield, MA NECMA	3	133,038	2.3
Ann Arbor, MI PMSA	12	547,646	2.2
Athens, GA MSA	3	138,679	2.2
Bismarck, ND MSA	2	91,442	2.2
Charleston-North Charleston, SC MSA	12	541,159	2.2
Colorado Springs, CO MSA	11	490,378	2.2
Columbus, GA-AL MSA	6	272,133	2.2
Davenport-Moline-Rock Island, IA-IL MSA	8	357,813	2.2
Jacksonville, FL MSA	23	1,044,684	2.2
Las Vegas, NV-AZ MSA	29	1,321,546	2.2
Missoula, MT MSA	2	88,989	2.2
Nashville, TN MSA	25	1,156,225	2.2
Steubenville-Weirton, OH-WV MSA	3	134,535	2.2
Stockton-Lodi, CA MSA	12	550,445	2.2
Bremerton, WA PMSA	5	232,623	2.1
Burlington, VT NECMA	4	192,895	2.1
Gary, IN PMSA	13	624,049	2.1
Hamilton-Middletown, OH PMSA	7	330,428	2.1
Buffalo-Niagra Falls, NY MSA	23	1,152,541	2.0
Fort Myers-Cape Coral, FL MSA	8	392,895	2.0
Houston, TX PMSA	79	3,931,688	2.0
Janesville-Beloit, WI MSA	3	150,736	2.0
Kalamazoo-Battle Creek, MI MSA	9	446,331	2.0
Louisville, KY-IN MSA	20	999,267	2.0
New London-Norwich, CT NECMA	5	245,740	2.0
Peoria-Pekin, IL MSA	7	344,779	2.0
Richmond-Petersburg, VA MSA	19	957,032	2.0
Rockford, IL MSA	7	356,887	2.0
Springfield, IL MSA	4	203,847	2.0
Vallejo-Fairfield-Napa, CA PMSA	10	496,703	2.0
Dayton-Springfield, OH MSA	9	470,864	1.9
Salinas, CA MSA	7	365,605	1.9

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Tulsa, OK MSA	15	776,906	1.9
Washington, DC-MD-VA-WV PMSA	87	4,673,902	1.9
Chattanooga, TN-GA MSA	8	450,283	1.8
Fargo-Moorhead, ND-MN MSA	3	168,431	1.8
Flint, MI PMSA	8	436,084	1.8
Fort Walton Beach, FL MSA	3	169,289	1.8
Harrisburg-Lebanon-Carlisle, PA MSA	11	616,031	1.8
Lansing-East Lansing, MI MSA	8	449,683	1.8
Bloomington, IN MSA	2	115,130	1.7
Lake Charles, LA MSA	3	180,330	1.7
Ocala, FL MSA	4	241,513	1.7
Saginaw-Bay City-Midland, MI MSA	7	401,991	1.7
Waterloo-Cedar Falls, IA MSA	2	121,121	1.7
Hagerstown, MD PMSA	2	127,352	1.6
Lexington, KY MSA	7	449,645	1.6
New Orleans, LA MSA	21	1,309,445	1.6
Richland-Kennewick-Pasco, WA MSA	3	182,709	1.6
Albany-Schenectady-Troy, NY MSA	13	871,604	1.5
Albuquerque, NM MSA	10	678,633	1.5
Merced, CA MSA	3	197,730	1.5
Bangor, ME NECMA	2	142,323	1.4
Columbia, SC MSA	7	512,316	1.4
Little Rock-North Little Rock, AR MSA	8	556,295	1.4
Vineland-Millville-Bridgeton, NJ PMSA	2	140,341	1.4
Yakima, WA MSA	3	218,062	1.4
Charlottesville, VA MSA	2	149,190	1.3
Great Falls, MT MSA	1	78,983	1.3
Jonesboro, AR MSA	1	77,500	1.3
Macon, GA MSA	4	319,502	1.3
Brownsville-Harlingen-San Benito, TX MSA	4	326,449	1.2
Lafayette, IN MSA	2	172,220	1.2
Medford-Ashland, OR MSA	2	173,123	1.2
Portland, ME NECMA	3	253,582	1.2
St. Cloud, MN MSA	2	162,222	1.2
Topeka, KS MSA	2	165,348	1.2
Beaumont-Port Arthur, TX MSA	4	375,564	1.1
Biloxi-Gulfport-Pascagoula, MS MSA	4	349,218	1.1
Fayetteville-Springdale-Rogers, AR MSA	3	272,616	1.1
Lawrence, KS MSA	1	93,137	1.1

Design

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Mansfield, OH MSA	2	174,559	1.1
Myrtle Beach, SC MSA	2	174,762	1.1
Owensboro, KY MSA	1	91,139	1.1
San Antonio, TX MSA	17	1,538,338	1.1
Savannah, GA MSA	3	285,508	1.1
Shreveport-Bossier City, LA MSA	4	378,641	1.1
Amarillo, TX MSA	2	208,607	1.0
Auburn-Opelika, AL MSA	1	100,444	1.0
Grand Forks, ND-MN MSA	1	97,823	1.0
Houma, LA MSA	2	193,858	1.0
San Angelo, TX MSA	1	102,775	1.0
Sherman-Denison, TX MSA	1	102,815	1.0
Spokane, WA MSA	4	408,669	1.0
St. Joseph, MO MSA	1	97,338	1.0
Augusta-Aiken, GA-SC MSA	4	458,271	0.9
Baton Rouge, LA MSA	5	575,129	0.9
Brazoria, TX PMSA	2	230,335	0.9
Goldsboro, NC MSA	1	112,227	0.9
Lakeland-Winter Haven, FL MSA	4	452,584	0.9
Lawton, OK MSA	1	113,508	0.9
Modesto, CA MSA	4	426,460	0.9
Muncie, IN MSA	1	116,828	0.9
Salem, OR PMSA	3	330,101	0.9
Altoona, PA MSA	1	130,615	0.8
Bakersfield, CA MSA	5	631,459	0.8
Billings, MT MSA	1	126,158	0.8
Charleston, WV MSA	2	253,175	0.8
Columbia, MO MSA	1	129,098	0.8
Flagstaff, AZ-UT MSA	1	120,371	0.8
Florence, SC MSA	1	124,904	0.8
Fresno, CA MSA	7	870,478	0.8
Galveston-Texas City TX PMSA	2	245,556	0.8
Johnstown, PA MSA	2	236,347	0.8
Lafayette, LA MSA	3	375,718	0.8
Mobile, AL MSA	4	532,257	0.8
Tallahassee, FL MSA	2	261,021	0.8
Yuma, AZ MSA	1	132,259	0.8
Birmingham, AL MSA	6	908,508	0.7
Decatur, AL MSA	1	142,816	0.7

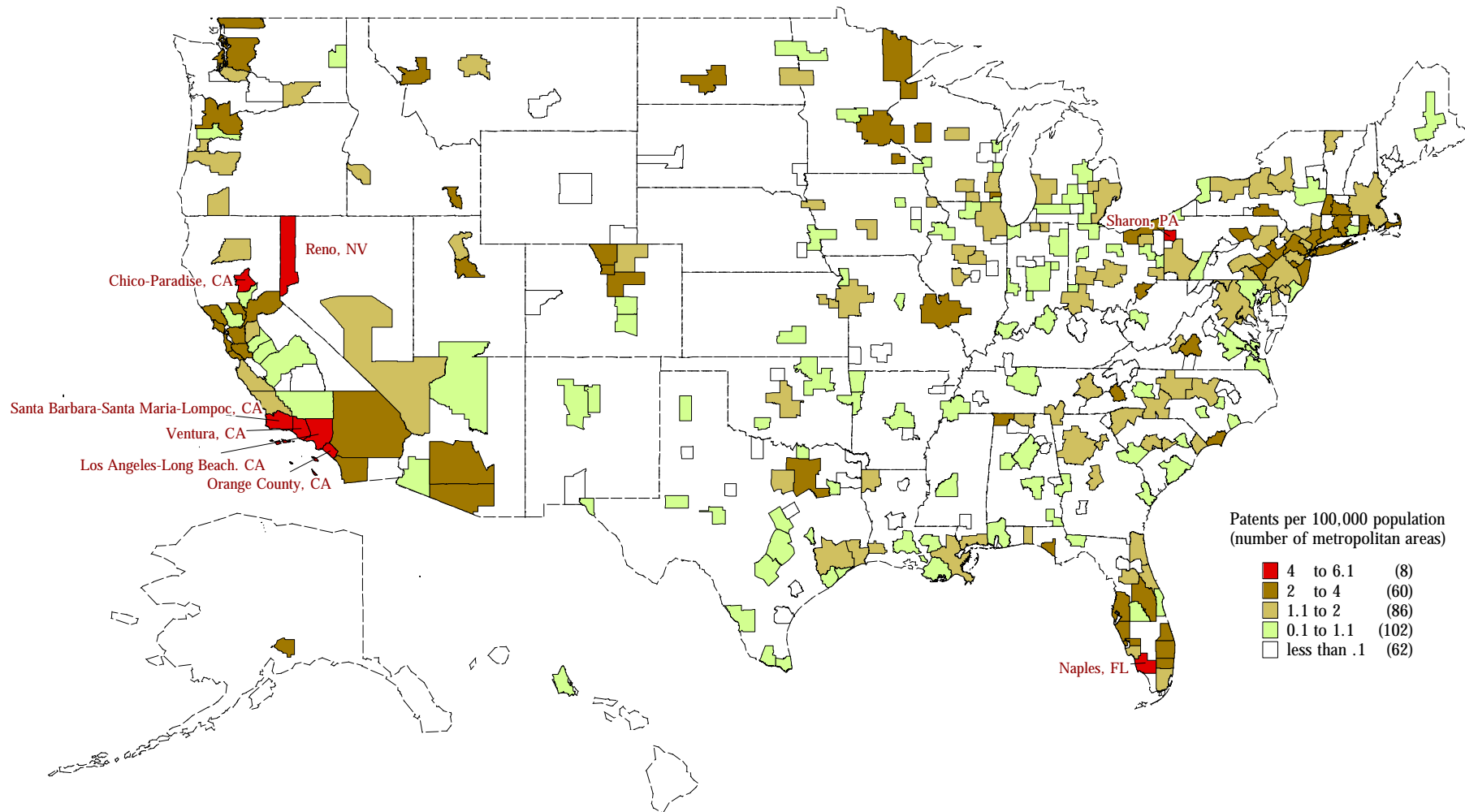
Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Erie, PA MSA	2	276,401	0.7
Evansville-Henderson, IN-KY MSA	2	290,757	0.7
Honolulu, HI MSA	6	872,478	0.7
Jackson, MS MSA	3	429,614	0.7
Jacksonville, NC MSA	1	142,358	0.7
Joplin, MO MSA	1	148,684	0.7
Pueblo, CO MSA	1	134,867	0.7
Santa Fe, NM MSA	1	141,730	0.7
Springfield, MO MSA	2	304,863	0.7
Youngstown-Warren, OH MSA	4	591,752	0.7
Yuba City, CA MSA	1	137,043	0.7
Champaign-Urbana, IL MSA	1	167,788	0.6
Jackson, MI MSA	1	156,157	0.6
Norfolk-Virginia Beach-Newport News, VA-NC MSA	9	1,542,143	0.6
Tuscaloosa, AL MSA	1	160,768	0.6
Tyler, TX MSA	1	168,783	0.6
Fort Smith, AR-OK MSA	1	194,045	0.5
Laredo, TX MSA	1	188,166	0.5
Waco, TX MSA	1	203,446	0.5
Fayetteville, NC MSA	1	284,629	0.4
Lincoln, NE MSA	1	235,589	0.4
Lubbock, TX MSA	1	229,475	0.4
McAllen-Edinburg-Mission, TX MSA	2	522,204	0.4
Odessa-Midland, TX MSA	1	245,376	0.4
El Paso, TX MSA	2	703,127	0.3
Killeen-Temple, TX MSA	1	301,449	0.3
Montgomery, AL MSA	1	321,781	0.3
Visalia-Tulare-Porterville, CA MSA	1	355,240	0.3
Abilene, TX MSA	0	122,016	0.0
Albany, GA MSA	0	118,076	0.0
Alexandria, LA MSA	0	126,763	0.0
Anniston, AL MSA	0	117,018	0.0
Casper, WY MSA	0	63,341	0.0
Cedar Rapids, IA MSA	0	182,651	0.0
Cheyenne, WY MSA	0	78,872	0.0
Clarksville-Hopkinsville, TN-KY MSA	0	199,758	0.0
Corpus Christi, TX MSA	0	387,733	0.0
Cumberland, MD-WV MSA	0	98,070	0.0
Danville, VA MSA	0	108,252	0.0

Design

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Decatur, IL MSA	0	113,772	0.0
Elmira, NY MSA	0	92,021	0.0
Enid, OK MSA	0	56,859	0.0
Gadsden, AL MSA	0	103,975	0.0
Gainesville, FL MSA	0	198,662	0.0
Glens Falls, NY MSA	0	121,742	0.0
Grand Junction, CO MSA	0	112,891	0.0
Greenville, NC MSA	0	126,630	0.0
Huntington-Ashland, WV-KY-OH MSA	0	313,922	0.0
Jamestown, NY MSA	0	138,103	0.0
Johnson City-Kingsport-Bristol, TN-VA MSA	0	462,345	0.0
Kankakee, IL PMSA	0	102,107	0.0
Kokomo, IN MSA	0	100,176	0.0

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Las Cruces, NM MSA	0	169,165	0.0
Lewiston-Auburn, ME NECMA	0	101,280	0.0
Longview-Marshall, TX MSA	0	208,988	0.0
Monroe, LA MSA	0	146,979	0.0
Olympia, WA PMSA	0	202,255	0.0
Pensacola, FL MSA	0	399,625	0.0
Pine Bluff, AR MSA	0	81,556	0.0
Rapid City, SD MSA	0	87,702	0.0
Rocky Mount, NC MSA	0	146,167	0.0
Sioux Falls, SD MSA	0	163,422	0.0
Texarkana, TX-Texarkana, AR MSA	0	123,366	0.0
Victoria, TX MSA	0	82,650	0.0
Wichita Falls, TX MSA	0	137,237	0.0

Number of DESIGN patents granted per 100,000 population by metropolitan area, 1998 (independent inventors only)



**Table 5. Number of DESIGN Patents Granted per 100,000 Population, by Metropolitan Area, 1998
(Independent Inventors Only)**

Metropolitan areas are based on definitions effective July 1, 1999. MSA= metropolitan statistical area; NECMA= New England county metropolitan area; PMSA= primary metropolitan statistical area. The geographic distribution of patents is based on the residence of the first-named inventor.

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.	Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Reno, NV MSA	19	313,660	6.1	Wilmington, NC MSA	6	218,248	2.7
Sharon, PA MSA	7	121,938	5.7	Bellingham, WA MSA	4	156,830	2.6
Ventura, CA PMSA	36	731,967	4.9	Phoenix-Mesa, AZ MSA	75	2,931,004	2.6
Chico-Paradise, CA MSA	9	194,597	4.6	Rochester, MN MSA	3	116,702	2.6
Orange County, CA PMSA	123	2,721,701	4.5	Williamsport, PA MSA	3	117,308	2.6
Los Angeles-Long Beach, CA PMSA	378	9,213,533	4.1	Duluth-Superior, MN-WI MSA	6	236,464	2.5
Santa Barbara-Santa Maria-Lompoc, CA MSA	16	389,502	4.1	Anchorage, AK MSA	6	254,982	2.4
Naples, FL MSA	8	199,436	4.0	Barnstable-Yarmouth, MA NECMA	5	208,418	2.4
Newark, NJ PMSA	65	1,952,407	3.3	Cleveland-Lorain-Elyria, OH PMSA	53	2,222,731	2.4
Parkersburg-Marietta, WV-OH MSA	5	150,181	3.3	Denver, CO PMSA	46	1,938,642	2.4
New Haven-Bridgeport-Stamford-Danbury- Waterbury, CT NECMA	52	1,631,866	3.2	Lancaster, PA MSA	11	456,414	2.4
San Diego, CA MSA	89	2,780,592	3.2	Lynchburg, VA MSA	5	208,039	2.4
Yolo, CA PMSA	5	153,849	3.2	Sacramento, CA PMSA	37	1,531,963	2.4
Portland-Vancouver, OR-WA PMSA	56	1,818,955	3.1	Springfield, MA NECMA	14	588,993	2.4
Reading, PA MSA	11	355,956	3.1	Trenton, NJ PMSA	8	331,629	2.4
San Francisco, CA PMSA	53	1,683,309	3.1	Asheville, NC MSA	5	213,629	2.3
Boulder-Longmont, CO PMSA	8	267,274	3.0	Oakland, CA PMSA	53	2,318,522	2.3
Provo-Orem, UT MSA	10	335,635	3.0	Pittsfield, MA NECMA	3	133,038	2.3
Punta Gorda, FL MSA	4	134,899	3.0	Seattle-Bellevue-Everett, WA PMSA	53	2,312,978	2.3
Fort Lauderdale, FL PMSA	43	1,503,407	2.9	West Palm Beach-Boca Raton, FL MSA	24	1,032,625	2.3
Eau Claire, WI MSA	4	143,861	2.8	Bismarck, ND MSA	2	91,442	2.2
Minneapolis-St. Paul, MN-WI MSA	79	2,831,234	2.8	Dallas, TX PMSA	70	3,209,886	2.2
Santa Rosa, CA PMSA	12	433,304	2.8	Florence, AL MSA	3	137,271	2.2
Sarasota-Bradenton, FL MSA	15	543,082	2.8	Fort Collins-Loveland, CO MSA	5	231,221	2.2
Nassau-Suffolk, NY PMSA	72	2,673,489	2.7	Missoula, MT MSA	2	88,989	2.2
Panama City, FL MSA	4	146,999	2.7	Monmouth-Ocean, NJ PMSA	24	1,093,253	2.2
Pocatello, ID MSA	2	74,866	2.7	New York, NY PMSA	189	8,692,782	2.2
Racine, WI PMSA	5	186,119	2.7	Allentown-Bethlehem-Easton, PA MSA	13	616,877	2.1
Tucson, AZ MSA	21	790,755	2.7	Bremerton, WA PMSA	5	232,623	2.1
Providence-Warwick-Pawtucket, RI NECMA	19	905,612	2.1	Orlando, FL MSA	32	1,504,569	2.1
				Salinas, CA MSA	6	365,605	1.6

Design (independent inventors)

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
San Jose, CA PMSA	34	1,641,215	2.1
Santa Cruz-Watsonville, CA PMSA	5	242,994	2.1
Binghamton, NY MSA	5	249,022	2.0
Fort Pierce-Port St. Lucie, FL MSA	6	295,118	2.0
Hartford, CT NECMA	22	1,110,065	2.0
Riverside-San Bernardino, CA PMSA	62	3,114,072	2.0
St. Louis, MO-IL MSA	51	2,563,801	2.0
Tampa-St. Petersburg-Clearwater, FL MSA	45	2,256,559	2.0
Chicago, IL PMSA	151	7,939,351	1.9
Eugene-Springfield, OR MSA	6	314,068	1.9
Philadelphia, PA-NJ PMSA	95	4,946,562	1.9
Sumter, SC MSA	2	107,127	1.9
Bergen-Passaic, NJ PMSA	24	1,344,266	1.8
Fargo-Moorhead, ND-MN MSA	3	168,431	1.8
Flint, MI PMSA	8	436,084	1.8
Fort Walton Beach, FL MSA	3	169,289	1.8
Greensboro--Winston-Salem--High Point, NC MSA	21	1,167,629	1.8
Las Vegas, NV-AZ MSA	24	1,321,546	1.8
Miami, FL PMSA	38	2,152,437	1.8
Oklahoma City, OK MSA	19	1,038,999	1.8
Redding, CA MSA	3	164,349	1.8
Daytona Beach, FL MSA	16	948,522	1.7
Jacksonville, FL MSA	18	1,044,684	1.7
Knoxville, TN MSA	11	659,074	1.7
Peoria-Pekin, IL MSA	6	344,779	1.7
Salt Lake City-Ogden, UT MSA	22	1,267,745	1.7
San Luis Obispo-Atascadero-Paso Robles, CA MSA	4	234,366	1.7
Sioux City, IA-NE MSA	2	120,464	1.7
Boston-Worcester-Lawrence-Lowell-			
Brockton, MA-NH NECMA	92	5,867,187	1.6
Burlington, VT NECMA	3	192,895	1.6
Charlotte-Gastonia-Rock Hill, NC-SC MSA	22	1,383,080	1.6
Dover, DE MSA	2	124,089	1.6
Fort Worth-Arlington, TX PMSA	26	1,592,577	1.6
Grand Rapids-Muskegon-Holland, MI MSA	17	1,037,933	1.6
Hagerstown, MD PMSA	2	127,352	1.6
Kansas City, MO-KS MSA	27	1,737,025	1.6
Newburgh, NY-PA PMSA	6	369,392	1.6

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Stockton-Lodi, CA MSA	9	550,445	1.6
Tacoma-WA PMSA	11	676,505	1.6
Wausau, WI MSA	2	123,223	1.6
Akron, OH PMSA	10	688,952	1.5
Dayton-Springfield, OH MSA	7	470,864	1.5
Fort Myers-Cape Coral, FL MSA	6	392,895	1.5
Scranton--Wilkes-Barre--Hazleton, PA MSA	9	615,491	1.5
South Bend, IN MSA	4	258,088	1.5
Springfield, IL MSA	3	203,847	1.5
Athens, GA MSA	2	138,679	1.4
Atlanta, GA MSA	52	3,746,059	1.4
Bloomington-Normal, IL MSA	2	142,652	1.4
Columbia, SC MSA	7	512,316	1.4
Des Moines, IA MSA	6	436,922	1.4
Middlesex-Somerset-Hunterdon, NJ PMSA	16	1,121,504	1.4
New Orleans, LA MSA	18	1,309,445	1.4
Utica-Rome, NY MSA	4	294,677	1.4
Vineland-Millville-Bridgeton, NJ PMSA	2	140,341	1.4
Boise City, ID MSA	5	395,953	1.3
Corvallis, OR MSA	1	77,755	1.3
Detroit, MI PMSA	59	4,473,853	1.3
Great Falls, MT MSA	1	78,983	1.3
Greeley, CO PMSA	2	159,429	1.3
Janesville-Beloit, WI MSA	2	150,736	1.3
Macon, GA MSA	4	319,502	1.3
Pittsburgh, PA MSA	30	2,346,153	1.3
Roanoke, VA MSA	3	227,828	1.3
Wheeling, WV-OH MSA	2	152,903	1.3
Cincinnati, OH-KY-IN PMSA	19	1,617,836	1.2
Columbus, OH MSA	17	1,469,604	1.2
Elkhart-Goshen, IN MSA	2	172,310	1.2
Houston, TX PMSA	48	3,931,688	1.2
Huntsville, AL MSA	4	340,428	1.2
Madison, WI MSA	5	424,586	1.2
Medford-Ashland, OR MSA	2	173,123	1.2
Milwaukee-Waukesha, WI PMSA	17	1,459,805	1.2
Ocala, FL MSA	3	241,513	1.2
Syracuse, NY MSA	9	734,640	1.2

Design (independent inventors)

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Topeka, KS MSA	2	165,348	1.2
Washington, DC-MD-VA-WV PMSA	57	4,673,902	1.2
Beaumont-Port Arthur, TX MSA	4	375,564	1.1
Biloxi-Gulfport-Pascagoula, MS MSA	4	349,218	1.1
Chattanooga, TN-GA MSA	5	450,283	1.1
Dubuque, IA MSA	1	87,806	1.1
Dutchess County, NY PMSA	3	265,317	1.1
Greenville-Spartanburg-Anderson, SC MSA	10	918,351	1.1
Harrisburg-Lebanon-Carlisle, PA MSA	7	616,031	1.1
Lake Charles, LA MSA	2	180,330	1.1
Lawrence, KS MSA	1	93,137	1.1
Myrtle Beach, SC MSA	2	174,762	1.1
Raleigh-Durham-Chapel Hill, NC MSA	12	1,079,873	1.1
Richland-Kennewick-Pasco, WA MSA	2	182,709	1.1
Rochester, NY MSA	12	1,081,883	1.1
Shreveport-Bossier City, LA MSA	4	378,641	1.1
Wilmington-Newark, DE-MD PMSA	6	565,329	1.1
York, PA MSA	4	373,255	1.1
Amarillo, TX MSA	2	208,607	1.0
Austin-San Marcos, TX MSA	11	1,105,909	1.0
Baltimore, MD PMSA	26	2,483,952	1.0
Gary, IN PMSA	6	624,049	1.0
Grand Forks, ND-MN MSA	1	97,823	1.0
Houma, LA MSA	2	193,858	1.0
Iowa City, IA MSA	1	102,724	1.0
Louisville, KY-IN MSA	10	999,267	1.0
San Angelo, TX MSA	1	102,775	1.0
San Antonio, TX MSA	15	1,538,338	1.0
Sherman-Denison, TX MSA	1	102,815	1.0
St. Joseph, MO MSA	1	97,338	1.0
Atlantic-Cape May, NJ PMSA	3	336,116	0.9
Bloomington, IN MSA	1	115,130	0.9
Brownsville-Harlingen-San Benito, TX MSA	3	326,449	0.9
Buffalo-Niagra Falls, NY MSA	10	1,152,541	0.9
Charleston-North Charleston, SC MSA	5	541,159	0.9
Goldsboro, NC MSA	1	112,227	0.9
Hickory-Morganton-Lenoir, NC MSA	3	322,608	0.9
Jersey City, NJ PMSA	5	557,159	0.9
Lakeland-Winter Haven, FL MSA	4	452,584	0.9

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Lansing-East Lansing, MI MSA	4	449,683	0.9
Lawton, OK MSA	1	113,508	0.9
Melbourne-Titusville-Palm Bay, FL MSA	4	466,093	0.9
Muncie, IN MSA	1	116,828	0.9
Nashville, TN MSA	10	1,156,225	0.9
Omaha, NE-IA MSA	6	693,900	0.9
Richmond-Petersburg, VA MSA	9	957,032	0.9
Salem, OR PMSA	3	330,101	0.9
Sheboygan, WI MSA	1	110,170	0.9
Albany-Schenectady-Troy, NY MSA	7	871,604	0.8
Bakersfield, CA MSA	5	631,459	0.8
Columbia, MO MSA	1	129,098	0.8
Flagstaff, AZ-UT MSA	1	120,371	0.8
Florence, SC MSA	1	124,904	0.8
Fort Wayne, IN MSA	4	481,191	0.8
Johnstown, PA MSA	2	236,347	0.8
La Crosse, WI-MN MSA	1	121,832	0.8
Lafayette, LA MSA	3	375,718	0.8
Mobile, AL MSA	4	532,257	0.8
Rockford, IL MSA	3	356,887	0.8
Vallejo-Fairfield-Napa, CA PMSA	4	496,703	0.8
Waterloo-Cedar Falls, IA MSA	1	121,121	0.8
Yuma, AZ MSA	1	132,259	0.8
Albuquerque, NM MSA	5	678,633	0.7
Ann Arbor, MI PMSA	4	547,646	0.7
Augusta-Aiken, GA-SC MSA	3	458,271	0.7
Bangor, ME NECMA	1	142,323	0.7
Bryan-College Station, TX MSA	1	133,407	0.7
Canton-Massillon, OH MSA	3	402,207	0.7
Columbus, GA-AL MSA	2	272,133	0.7
Dothan, AL MSA	1	134,749	0.7
Evansville-Henderson, IN-KY MSA	2	290,757	0.7
Honolulu, HI MSA	6	872,478	0.7
Indianapolis, IN MSA	10	1,519,194	0.7
Jackson, MS MSA	3	429,614	0.7
Jacksonville, NC MSA	1	142,358	0.7
Kenosha, WI PMSA	1	144,339	0.7
Little Rock-North Little Rock, AR MSA	4	556,295	0.7
Modesto, CA MSA	3	426,460	0.7

Design (independent inventors)

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Pueblo, CO MSA	1	134,867	0.7
Santa Fe, NM MSA	1	141,730	0.7
Spokane, WA MSA	3	408,669	0.7
Steubenville-Weirton, OH-WV MSA	1	134,535	0.7
Terre Haute, IN MSA	1	148,628	0.7
Toledo, OH MSA	4	609,935	0.7
Yuba City, CA MSA	1	137,043	0.7
Lima, OH MSA	1	154,242	0.6
Mansfield, OH MSA	1	174,559	0.6
Memphis, TN-AR-MS MSA	7	1,093,427	0.6
St. Cloud, MN MSA	1	162,222	0.6
Tulsa, OK MSA	5	776,906	0.6
Tuscaloosa, AL MSA	1	160,768	0.6
Tyler, TX MSA	1	168,783	0.6
Fort Smith, AR-OK MSA	1	194,045	0.5
Fresno, CA MSA	4	870,478	0.5
Green Bay, WI MSA	1	215,373	0.5
Laredo, TX MSA	1	188,166	0.5
Merced, CA MSA	1	197,730	0.5
Norfolk-Virginia Beach-Newport News, VA-NC MSA	7	1,542,143	0.5
Saginaw-Bay City-Midland, MI MSA	2	401,991	0.5
Birmingham, AL MSA	4	908,508	0.4
Brazoria, TX PMSA	1	230,335	0.4
Charleston, WV MSA	1	253,175	0.4
Erie, PA MSA	1	276,401	0.4
Fayetteville, NC MSA	1	284,629	0.4
Fayetteville-Springdale-Rogers, AR MSA	1	272,616	0.4
Galveston-Texas City TX PMSA	1	245,556	0.4
McAllen-Edinburg-Mission, TX MSA	2	522,204	0.4
New London-Norwich, CT NECMA	1	245,740	0.4
Odessa-Midland, TX MSA	1	245,376	0.4
Savannah, GA MSA	1	285,508	0.4
Tallahassee, FL MSA	1	261,021	0.4
Wichita, KS MSA	2	544,343	0.4
Baton Rouge, LA MSA	2	575,129	0.3
Davenport-Moline-Rock Island, IA-IL MSA	1	357,813	0.3
Hamilton-Middletown, OH PMSA	1	330,428	0.3
Killeen-Temple, TX MSA	1	301,449	0.3
Montgomery, AL MSA	1	321,781	0.3

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Colorado Springs, CO MSA	1	490,378	0.2
Kalamazoo-Battle Creek, MI MSA	1	446,331	0.2
El Paso, TX MSA	1	703,127	0.1
Abilene, TX MSA	0	122,016	0.0
Albany, GA MSA	0	118,076	0.0
Alexandria, LA MSA	0	126,763	0.0
Altoona, PA MSA	0	130,615	0.0
Anniston, AL MSA	0	117,018	0.0
Appleton-Oshkosh-Neenah, WI MSA	0	344,464	0.0
Auburn-Opelika, AL MSA	0	100,444	0.0
Benton Harbor, MI MSA	0	160,245	0.0
Billings, MT MSA	0	126,158	0.0
Casper, WY MSA	0	63,341	0.0
Cedar Rapids, IA MSA	0	182,651	0.0
Champaign-Urbana, IL MSA	0	167,788	0.0
Charlottesville, VA MSA	0	149,190	0.0
Cheyenne, WY MSA	0	78,872	0.0
Clarksville-Hopkinsville, TN-KY MSA	0	199,758	0.0
Corpus Christi, TX MSA	0	387,733	0.0
Cumberland, MD-WV MSA	0	98,070	0.0
Danville, VA MSA	0	108,252	0.0
Decatur, AL MSA	0	142,816	0.0
Decatur, IL MSA	0	113,772	0.0
Elmira, NY MSA	0	92,021	0.0
Enid, OK MSA	0	56,859	0.0
Gadsden, AL MSA	0	103,975	0.0
Gainesville, FL MSA	0	198,662	0.0
Glens Falls, NY MSA	0	121,742	0.0
Grand Junction, CO MSA	0	112,891	0.0
Greenville, NC MSA	0	126,630	0.0
Hattiesburg, MS MSA	0	111,252	0.0
Huntington-Ashland, WV-KY-OH MSA	0	313,922	0.0
Jackson, MI MSA	0	156,157	0.0
Jackson, TN MSA	0	100,654	0.0
Jamestown, NY MSA	0	138,103	0.0
Johnson City-Kingsport-Bristol, TN-VA MSA	0	462,345	0.0
Jonesboro, AR MSA	0	77,500	0.0
Joplin, MO MSA	0	148,684	0.0
Kankakee, IL PMSA	0	102,107	0.0

Design (independent inventors)

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Kokomo, IN MSA	0	100,176	0.0
Lafayette, IN MSA	0	172,220	0.0
Las Cruces, NM MSA	0	169,165	0.0
Lewiston-Auburn, ME NECMA	0	101,280	0.0
Lexington, KY MSA	0	449,645	0.0
Lincoln, NE MSA	0	235,589	0.0
Longview-Marshall, TX MSA	0	208,988	0.0
Lubbock, TX MSA	0	229,475	0.0
Monroe, LA MSA	0	146,979	0.0
Olympia, WA PMSA	0	202,255	0.0
Owensboro, KY MSA	0	91,139	0.0
Pensacola, FL MSA	0	399,625	0.0
Pine Bluff, AR MSA	0	81,556	0.0

Metro Area Name	Design Patents Granted	Population 1998	Patents per 100K pop.
Portland, ME NECMA	0	253,582	0.0
Rapid City, SD MSA	0	87,702	0.0
Rocky Mount, NC MSA	0	146,167	0.0
Sioux Falls, SD MSA	0	163,422	0.0
Springfield, MO MSA	0	304,863	0.0
State College, PA MSA	0	132,700	0.0
Texarkana, TX-Texarkana, AR MSA	0	123,366	0.0
Victoria, TX MSA	0	82,650	0.0
Visalia-Tulare-Porterville, CA MSA	0	355,240	0.0
Waco, TX MSA	0	203,446	0.0
Wichita Falls, TX MSA	0	137,237	0.0
Yakima, WA MSA	0	218,062	0.0
Youngstown-Warren, OH MSA	0	591,752	0.0

Design (independent inventors)

Number of PLANT patents granted per 100,000 population,
by metropolitan area, 1998

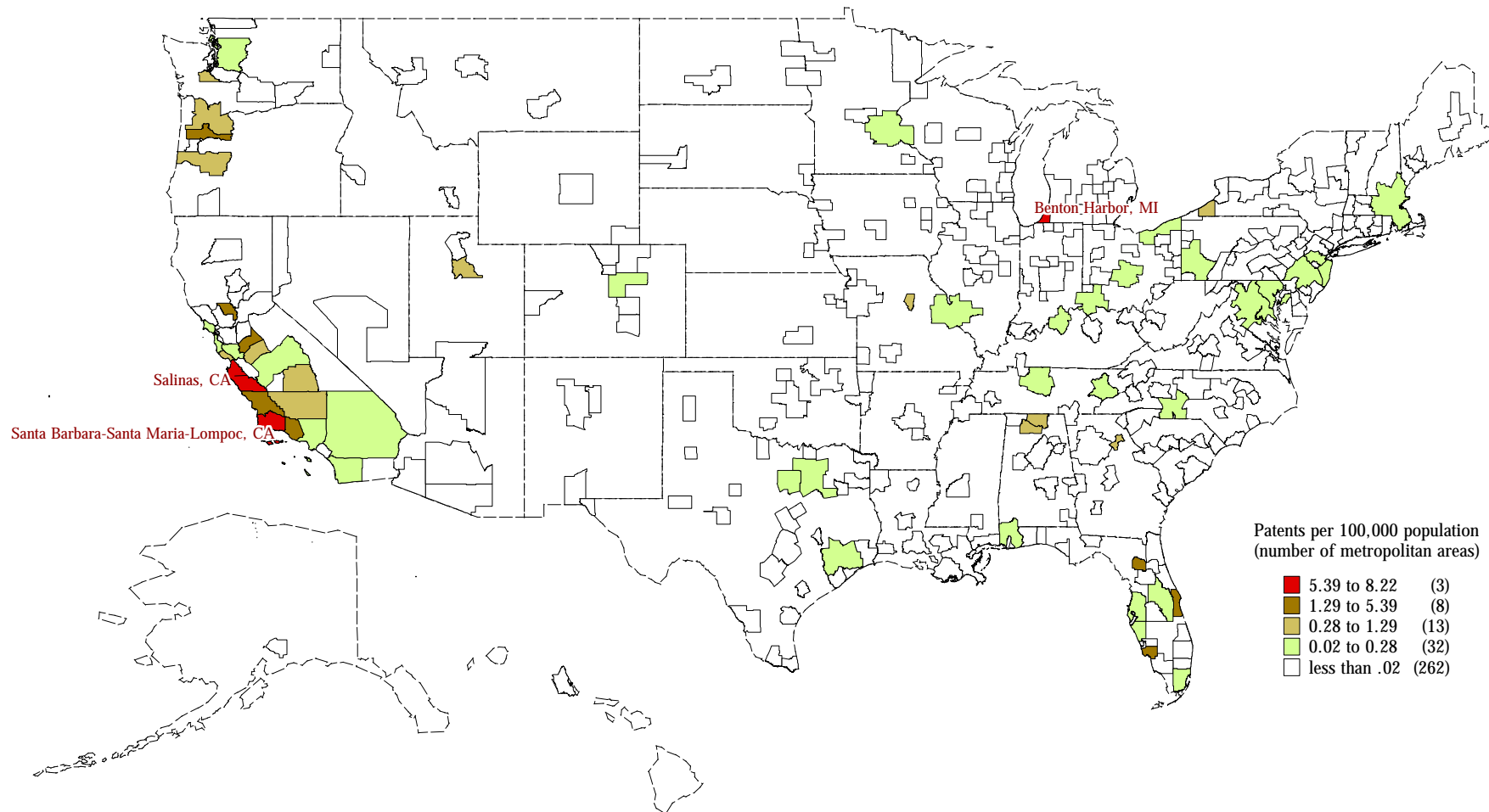


Table 3. Number of PLANT Patents Granted per 100,000 Population, by Metropolitan Area, 1998

Metropolitan areas are based on definitions effective July 1, 1999. MSA= metropolitan statistical area; NECMA= New England county metropolitan area; PMSA= primary metropolitan statistical area. The geographic distribution of patents is based on the residence of the first-named inventor.

Metro Area Name	Plant Patents Granted	Population 1998	Patents per 100K pop.	Metro Area Name	Plant Patents Granted	Population 1998	Patents per 100K pop.
Salinas, CA MSA	30	365,605	8.21	San Jose, CA PMSA	2	1,641,215	0.12
Benton Harbor, MI MSA	9	160,245	5.62	San Francisco, CA PMSA	2	1,683,309	0.12
Santa Barbara-Santa Maria-Lompoc, CA MSA	21	389,502	5.39	San Diego, CA MSA	3	2,780,592	0.11
Modesto, CA MSA	16	426,460	3.75	Louisville, KY-IN MSA	1	999,267	0.10
San Luis Obispo-Atascadero-Paso Robles, CA MSA	7	234,366	2.99	Monmouth-Ocean, NJ PMSA	1	1,093,253	0.09
Yolo, CA PMSA	4	153,849	2.60	Nashville, TN MSA	1	1,156,225	0.09
Salem, OR PMSA	6	330,101	1.82	Washington, DC-MD-VA-WV PMSA	4	4,673,902	0.09
Ventura, CA PMSA	13	731,967	1.78	Pittsburgh, PA MSA	2	2,346,153	0.09
Fort Myers-Cape Coral, FL MSA	6	392,895	1.53	St. Louis, MO-IL MSA	2	2,563,801	0.08
Gainesville, FL MSA	3	198,662	1.51	Charlotte-Gastonia-Rock Hill, NC-SC MSA	1	1,383,080	0.07
Melbourne-Titusville-Palm Bay, FL MSA	6	466,093	1.29	Columbus, OH MSA	1	1,469,604	0.07
Santa Cruz-Watsonville, CA PMSA	2	242,994	0.82	Orlando, FL MSA	1	1,504,569	0.07
Columbia, MO MSA	1	129,098	0.77	Fort Worth-Arlington, TX PMSA	1	1,592,577	0.06
Jamestown, NY MSA	1	138,103	0.72	Cincinnati, OH-KY-IN PMSA	1	1,617,836	0.06
Athens, GA MSA	1	138,679	0.72	Denver, CO PMSA	1	1,938,642	0.05
Decatur, AL MSA	1	142,816	0.70	Boston-Worcester-Lawrence-Lowell-			
Eugene-Springfield, OR MSA	2	314,068	0.64	Brockton, MA-NH NECMA	3	5,867,187	0.05
Portland-Vancouver, OR-WA PMSA	11	1,818,955	0.60	Houston, TX PMSA	2	3,931,688	0.05
Visalia-Tulare-Porterville, CA MSA	2	355,240	0.56	Cleveland-Lorain-Elyria, OH PMSA	1	2,222,731	0.04
Merced, CA MSA	1	197,730	0.51	Tampa-St. Petersburg-Clearwater, FL MSA	1	2,256,559	0.04
Olympia, WA PMSA	1	202,255	0.49	Seattle-Bellevue-Everett, WA PMSA	1	2,312,978	0.04
Bakersfield, CA MSA	2	631,459	0.32	Philadelphia, PA-NJ PMSA	2	4,946,562	0.04
Provo-Orem, UT MSA	1	335,635	0.30	Baltimore, MD PMSA	1	2,483,952	0.04
Huntsville, AL MSA	1	340,428	0.29	Minneapolis-St. Paul, MN-WI MSA	1	2,831,234	0.04
Fresno, CA MSA	2	870,478	0.23	Riverside-San Bernardino, CA PMSA	1	3,114,072	0.03
Mobile, AL MSA	1	532,257	0.19	Dallas, TX PMSA	1	3,209,886	0.03
Miami, FL PMSA	4	2,152,437	0.19	Los Angeles-Long Beach, CA PMSA	2	9,213,533	0.02
Sarasota-Bradenton, FL MSA	1	543,082	0.18	Abilene, TX MSA	0	122,016	0.00
Middlesex-Somerset-Hunterdon, NJ PMSA	2	1,121,504	0.18	Akron, OH PMSA	0	688,952	0.00
Knoxville, TN MSA	1	659,074	0.15	Albany, GA MSA	0	118,076	0.00

Metro Area Name	Plant Patents Granted	Population 1998	Patents per 100K pop.
Albany-Schenectady-Troy, NY MSA	0	871,604	0.00
Albuquerque, NM MSA	0	678,633	0.00
Alexandria, LA MSA	0	126,763	0.00
Allentown-Bethlehem-Easton, PA MSA	0	616,877	0.00
Altoona, PA MSA	0	130,615	0.00
Amarillo, TX MSA	0	208,607	0.00
Anchorage, AK MSA	0	254,982	0.00
Ann Arbor, MI PMSA	0	547,646	0.00
Anniston, AL MSA	0	117,018	0.00
Appleton-Oshkosh-Neenah, WI MSA	0	344,464	0.00
Asheville, NC MSA	0	213,629	0.00
Atlanta, GA MSA	0	3,746,059	0.00
Atlantic-Cape May, NJ PMSA	0	336,116	0.00
Auburn-Opelika, AL MSA	0	100,444	0.00
Augusta-Aiken, GA-SC MSA	0	458,271	0.00
Austin-San Marcos, TX MSA	0	1,105,909	0.00
Bangor, ME NECMA	0	142,323	0.00
Barnstable-Yarmouth, MA NECMA	0	208,418	0.00
Baton Rouge, LA MSA	0	575,129	0.00
Beaumont-Port Arthur, TX MSA	0	375,564	0.00
Bellingham, WA MSA	0	156,830	0.00
Bergen-Passaic, NJ PMSA	0	1,344,266	0.00
Billings, MT MSA	0	126,158	0.00
Biloxi-Gulfport-Pascagoula, MS MSA	0	349,218	0.00
Binghamton, NY MSA	0	249,022	0.00
Birmingham, AL MSA	0	908,508	0.00
Bismarck, ND MSA	0	91,442	0.00
Bloomington, IN MSA	0	115,130	0.00
Bloomington-Normal, IL MSA	0	142,652	0.00
Boise City, ID MSA	0	395,953	0.00
Boulder-Longmont, CO PMSA	0	267,274	0.00
Brazoria, TX PMSA	0	230,335	0.00
Bremerton, WA PMSA	0	232,623	0.00
Brownsville-Harlingen-San Benito, TX MSA	0	326,449	0.00
Bryan-College Station, TX MSA	0	133,407	0.00
Buffalo-Niagra Falls, NY MSA	0	1,152,541	0.00
Burlington, VT NECMA	0	192,895	0.00
Canton-Massillon, OH MSA	0	402,207	0.00
Casper, WY MSA	0	63,341	0.00

Metro Area Name	Plant Patents Granted	Population 1998	Patents per 100K pop.
Cedar Rapids, IA MSA	0	182,651	0.00
Champaign-Urbana, IL MSA	0	167,788	0.00
Charleston, WV MSA	0	253,175	0.00
Charleston-North Charleston, SC MSA	0	541,159	0.00
Charlottesville, VA MSA	0	149,190	0.00
Chattanooga, TN-GA MSA	0	450,283	0.00
Cheyenne, WY MSA	0	78,872	0.00
Chicago, IL PMSA	0	7,939,351	0.00
Chico-Paradise, CA MSA	0	194,597	0.00
Clarksville-Hopkinsville, TN-KY MSA	0	199,758	0.00
Colorado Springs, CO MSA	0	490,378	0.00
Columbia, SC MSA	0	512,316	0.00
Columbus, GA-AL MSA	0	272,133	0.00
Corpus Christi, TX MSA	0	387,733	0.00
Corvallis, OR MSA	0	77,755	0.00
Cumberland, MD-WV MSA	0	98,070	0.00
Danville, VA MSA	0	108,252	0.00
Davenport-Moline-Rock Island, IA-IL MSA	0	357,813	0.00
Daytona Beach, FL MSA	0	948,522	0.00
Dayton-Springfield, OH MSA	0	470,864	0.00
Decatur, IL MSA	0	113,772	0.00
Des Moines, IA MSA	0	436,922	0.00
Detroit, MI PMSA	0	4,473,853	0.00
Dothan, AL MSA	0	134,749	0.00
Dover, DE MSA	0	124,089	0.00
Dubuque, IA MSA	0	87,806	0.00
Duluth-Superior, MN-WI MSA	0	236,464	0.00
Dutchess County, NY PMSA	0	265,317	0.00
Eau Claire, WI MSA	0	143,861	0.00
El Paso, TX MSA	0	703,127	0.00
Elkhart-Goshen, IN MSA	0	172,310	0.00
Elmira, NY MSA	0	92,021	0.00
Enid, OK MSA	0	56,859	0.00
Erie, PA MSA	0	276,401	0.00
Evansville-Henderson, IN-KY MSA	0	290,757	0.00
Fargo-Moorhead, ND-MN MSA	0	168,431	0.00
Fayetteville, NC MSA	0	284,629	0.00
Fayetteville-Springdale-Rogers, AR MSA	0	272,616	0.00
Flagstaff, AZ-UT MSA	0	120,371	0.00

Metro Area Name	Plant Patents Granted	Population 1998	Patents per 100K pop.
Flint, MI PMSA	0	436,084	0.00
Florence, AL MSA	0	137,271	0.00
Florence, SC MSA	0	124,904	0.00
Fort Collins-Loveland, CO MSA	0	231,221	0.00
Fort Lauderdale, FL PMSA	0	1,503,407	0.00
Fort Pierce-Port St. Lucie, FL MSA	0	295,118	0.00
Fort Smith, AR-OK MSA	0	194,045	0.00
Fort Walton Beach, FL MSA	0	169,289	0.00
Fort Wayne, IN MSA	0	481,191	0.00
Gadsden, AL MSA	0	103,975	0.00
Galveston-Texas City TX PMSA	0	245,556	0.00
Gary, IN PMSA	0	624,049	0.00
Glens Falls, NY MSA	0	121,742	0.00
Goldsboro, NC MSA	0	112,227	0.00
Grand Forks, ND-MN MSA	0	97,823	0.00
Grand Junction, CO MSA	0	112,891	0.00
Grand Rapids-Muskegon-Holland, MI MSA	0	1,037,933	0.00
Great Falls, MT MSA	0	78,983	0.00
Greeley, CO PMSA	0	159,429	0.00
Green Bay, WI MSA	0	215,373	0.00
Greensboro--Winston-Salem--High Point, NC MSA	0	1,167,629	0.00
Greenville, NC MSA	0	126,630	0.00
Greenville-Spartanburg-Anderson, SC MSA	0	918,351	0.00
Hagerstown, MD PMSA	0	127,352	0.00
Hamilton-Middletown, OH PMSA	0	330,428	0.00
Harrisburg-Lebanon-Carlisle, PA MSA	0	616,031	0.00
Hartford, CT NECMA	0	1,110,065	0.00
Hattiesburg, MS MSA	0	111,252	0.00
Hickory-Morganton-Lenoir, NC MSA	0	322,608	0.00
Honolulu, HI MSA	0	872,478	0.00
Houma, LA MSA	0	193,858	0.00
Huntington-Ashland, WV-KY-OH MSA	0	313,922	0.00
Indianapolis, IN MSA	0	1,519,194	0.00
Iowa City, IA MSA	0	102,724	0.00
Jackson, MI MSA	0	156,157	0.00
Jackson, MS MSA	0	429,614	0.00
Jackson, TN MSA	0	100,654	0.00
Jacksonville, FL MSA	0	1,044,684	0.00
Jacksonville, NC MSA	0	142,358	0.00

Metro Area Name	Plant Patents Granted	Population 1998	Patents per 100K pop.
Janesville-Beloit, WI MSA	0	150,736	0.00
Jersey City, NJ PMSA	0	557,159	0.00
Johnson City-Kingsport-Bristol, TN-VA MSA	0	462,345	0.00
Johnstown, PA MSA	0	236,347	0.00
Jonesboro, AR MSA	0	77,500	0.00
Joplin, MO MSA	0	148,684	0.00
Kalamazoo-Battle Creek, MI MSA	0	446,331	0.00
Kankakee, IL PMSA	0	102,107	0.00
Kansas City, MO-KS MSA	0	1,737,025	0.00
Kenosha, WI PMSA	0	144,339	0.00
Killeen-Temple, TX MSA	0	301,449	0.00
Kokomo, IN MSA	0	100,176	0.00
La Crosse, WI-MN MSA	0	121,832	0.00
Lafayette, IN MSA	0	172,220	0.00
Lafayette, LA MSA	0	375,718	0.00
Lake Charles, LA MSA	0	180,330	0.00
Lakeland-Winter Haven, FL MSA	0	452,584	0.00
Lancaster, PA MSA	0	456,414	0.00
Lansing-East Lansing, MI MSA	0	449,683	0.00
Laredo, TX MSA	0	188,166	0.00
Las Cruces, NM MSA	0	169,165	0.00
Las Vegas, NV-AZ MSA	0	1,321,546	0.00
Lawrence, KS MSA	0	93,137	0.00
Lawton, OK MSA	0	113,508	0.00
Lewiston-Auburn, ME NECMA	0	101,280	0.00
Lexington, KY MSA	0	449,645	0.00
Lima, OH MSA	0	154,242	0.00
Lincoln, NE MSA	0	235,589	0.00
Little Rock-North Little Rock, AR MSA	0	556,295	0.00
Longview-Marshall, TX MSA	0	208,988	0.00
Lubbock, TX MSA	0	229,475	0.00
Lynchburg, VA MSA	0	208,039	0.00
Macon, GA MSA	0	319,502	0.00
Madison, WI MSA	0	424,586	0.00
Mansfield, OH MSA	0	174,559	0.00
McAllen-Edinburg-Mission, TX MSA	0	522,204	0.00
Medford-Ashland, OR MSA	0	173,123	0.00
Memphis, TN-AR-MS MSA	0	1,093,427	0.00
Milwaukee-Waukesha, WI PMSA	0	1,459,805	0.00

Metro Area Name	Plant Patents Granted	Population 1998	Patents per 100K pop.
Missoula, MT MSA	0	88,989	0.00
Monroe, LA MSA	0	146,979	0.00
Montgomery, AL MSA	0	321,781	0.00
Muncie, IN MSA	0	116,828	0.00
Myrtle Beach, SC MSA	0	174,762	0.00
Naples, FL MSA	0	199,436	0.00
Nassau-Suffolk, NY PMSA	0	2,673,489	0.00
New Haven-Bridgeport-Stamford-Danbury- Waterbury, CT NECMA	0	1,631,866	0.00
New London-Norwich, CT NECMA	0	245,740	0.00
New Orleans, LA MSA	0	1,309,445	0.00
New York, NY PMSA	0	8,692,782	0.00
Newark, NJ PMSA	0	1,952,407	0.00
Newburgh, NY-PA PMSA	0	369,392	0.00
Norfolk-Virginia Beach-Newport News, VA-NC MSA	0	1,542,143	0.00
Oakland, CA PMSA	0	2,318,522	0.00
Ocala, FL MSA	0	241,513	0.00
Odessa-Midland, TX MSA	0	245,376	0.00
Oklahoma City, OK MSA	0	1,038,999	0.00
Omaha, NE-IA MSA	0	693,900	0.00
Orange County, CA PMSA	0	2,721,701	0.00
Owensboro, KY MSA	0	91,139	0.00
Panama City, FL MSA	0	146,999	0.00
Parkersburg-Marietta, WV-OH MSA	0	150,181	0.00
Pensacola, FL MSA	0	399,625	0.00
Peoria-Pekin, IL MSA	0	344,779	0.00
Phoenix-Mesa, AZ MSA	0	2,931,004	0.00
Pine Bluff, AR MSA	0	81,556	0.00
Pittsfield, MA NECMA	0	133,038	0.00
Pocatello, ID MSA	0	74,866	0.00
Portland, ME NECMA	0	253,582	0.00
Providence-Warwick-Pawtucket, RI NECMA	0	905,612	0.00
Pueblo, CO MSA	0	134,867	0.00
Punta Gorda, FL MSA	0	134,899	0.00
Racine, WI PMSA	0	186,119	0.00
Raleigh-Durham-Chapel Hill, NC MSA	0	1,079,873	0.00
Rapid City, SD MSA	0	87,702	0.00
Reading, PA MSA	0	355,956	0.00
Redding, CA MSA	0	164,349	0.00

Metro Area Name	Plant Patents Granted	Population 1998	Patents per 100K pop.
Reno, NV MSA	0	313,660	0.00
Richland-Kennewick-Pasco, WA MSA	0	182,709	0.00
Richmond-Petersburg, VA MSA	0	957,032	0.00
Roanoke, VA MSA	0	227,828	0.00
Rochester, MN MSA	0	116,702	0.00
Rochester, NY MSA	0	1,081,883	0.00
Rockford, IL MSA	0	356,887	0.00
Rocky Mount, NC MSA	0	146,167	0.00
Sacramento, CA PMSA	0	1,531,963	0.00
Saginaw-Bay City-Midland, MI MSA	0	401,991	0.00
Salt Lake City-Ogden, UT MSA	0	1,267,745	0.00
San Angelo, TX MSA	0	102,775	0.00
San Antonio, TX MSA	0	1,538,338	0.00
Santa Fe, NM MSA	0	141,730	0.00
Santa Rosa, CA PMSA	0	433,304	0.00
Savannah, GA MSA	0	285,508	0.00
Scranton--Wilkes-Barre--Hazleton, PA MSA	0	615,491	0.00
Sharon, PA MSA	0	121,938	0.00
Sheboygan, WI MSA	0	110,170	0.00
Sherman-Denison, TX MSA	0	102,815	0.00
Shreveport-Bossier City, LA MSA	0	378,641	0.00
Sioux City, IA-NE MSA	0	120,464	0.00
Sioux Falls, SD MSA	0	163,422	0.00
South Bend, IN MSA	0	258,088	0.00
Spokane, WA MSA	0	408,669	0.00
Springfield, IL MSA	0	203,847	0.00
Springfield, MA NECMA	0	588,993	0.00
Springfield, MO MSA	0	304,863	0.00
St. Cloud, MN MSA	0	162,222	0.00
St. Joseph, MO MSA	0	97,338	0.00
State College, PA MSA	0	132,700	0.00
Steubenville-Weirton, OH-WV MSA	0	134,535	0.00
Stockton-Lodi, CA MSA	0	550,445	0.00
Sumter, SC MSA	0	107,127	0.00
Syracuse, NY MSA	0	734,640	0.00
Tacoma-WA PMSA	0	676,505	0.00
Tallahassee, FL MSA	0	261,021	0.00
Terre Haute, IN MSA	0	148,628	0.00
Texarkana, TX-Texarkana, AR MSA	0	123,366	0.00

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Metro Area Name	Plant Patents Granted	Population 1998	Patents per 100K pop.
Toledo, OH MSA	0	609,935	0.00
Topeka, KS MSA	0	165,348	0.00
Trenton, NJ PMSA	0	331,629	0.00
Tucson, AZ MSA	0	790,755	0.00
Tulsa, OK MSA	0	776,906	0.00
Tuscaloosa, AL MSA	0	160,768	0.00
Tyler, TX MSA	0	168,783	0.00
Utica-Rome, NY MSA	0	294,677	0.00
Vallejo-Fairfield-Napa, CA PMSA	0	496,703	0.00
Victoria, TX MSA	0	82,650	0.00
Vineland-Millville-Bridgeton, NJ PMSA	0	140,341	0.00
Waco, TX MSA	0	203,446	0.00
Waterloo-Cedar Falls, IA MSA	0	121,121	0.00

Metro Area Name	Plant Patents Granted	Population 1998	Patents per 100K pop.
Wausau, WI MSA	0	123,223	0.00
West Palm Beach-Boca Raton, FL MSA	0	1,032,625	0.00
Wheeling, WV-OH MSA	0	152,903	0.00
Wichita Falls, TX MSA	0	137,237	0.00
Wichita, KS MSA	0	544,343	0.00
Williamsport, PA MSA	0	117,308	0.00
Wilmington, NC MSA	0	218,248	0.00
Wilmington-Newark, DE-MD PMSA	0	565,329	0.00
Yakima, WA MSA	0	218,062	0.00
York, PA MSA	0	373,255	0.00
Youngstown-Warren, OH MSA	0	591,752	0.00
Yuba City, CA MSA	0	137,043	0.00
Yuma, AZ MSA	0	132,259	0.00