

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-Brockton, MA-NH NECMA	3	5,867,187	0.05
Eugene-Springfield, OR MSA	2	314,068	0.64	Houston, TX PMSA	2	3,931,688	0.05
Portland-Vancouver, OR-WA PMSA	11	1,818,955	0.60	Cleveland-Lorain-Elyria, OH PMSA	1	2,222,731	0.04
Visalia-Tulare-Porterville, CA MSA	2	355,240	0.56	Tampa-St. Petersburg-Clearwater, FL MSA	1	2,256,559	0.04
Merced, CA MSA	1	197,730	0.51	Seattle-Bellevue-Everett, WA PMSA	1	2,312,978	0.04
Olympia, WA PMSA	1	202,255	0.49	Philadelphia, PA-NJ PMSA	2	4,946,562	0.04
Bakersfield, CA MSA	2	631,459	0.32	Baltimore, MD PMSA	1	2,483,952	0.04
Provo-Orem, UT MSA	1	335,635	0.30	Minneapolis-St. Paul, MN-WI MSA	1	2,831,234	0.04
Huntsville, AL MSA	1	340,428	0.29	Riverside-San Bernardino, CA PMSA	1	3,114,072	0.03
Fresno, CA MSA	2	870,478	0.23	Dallas, TX PMSA	1	3,209,886	0.03
Mobile, AL MSA	1	532,257	0.19	Los Angeles-Long Beach, CA PMSA	2	9,213,533	0.02
Miami, FL PMSA	4	2,152,437	0.19	Abilene, TX MSA	0	122,016	0.00
Sarasota-Bradenton, FL MSA	1	543,082	0.18	Akron, OH PMSA	0	688,952	0.00
Middlesex-Somerset-Hunterdon, NJ PMSA	2	1,121,504	0.18	Albany, GA MSA	0	118,076	0.00
Knoxville, TN MSA	1	659,074	0.15				

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

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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

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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

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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

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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

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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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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

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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