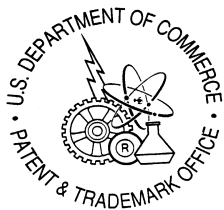


UNITED STATES PATENT GRANTS
BY STATE, COUNTY,
AND METROPOLITAN AREA

(UTILITY PATENTS, 1990 - 1999)



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OFFICE FOR PATENT AND TRADEMARK INFORMATION
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WASHINGTON, DC 20231

A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

**UNITED STATES PATENT GRANTS,
BY STATE, COUNTY, AND METROPOLITAN AREA
(Utility Patents, 1990 - 1999)**

This report, prepared by the Office for Patent and Trademark Information of the United States Patent and Trademark Office (USPTO), presents the numbers of patents granted to residents of each state, county (or county equivalent), and metropolitan area of the United States. Federal Information Processing Standards (FIPS) codes for each geographic area are also provided.

The geographic distribution of patents is based on the residence of the inventor whose name appears first on the printed patent. Only utility patents granted from 1990 - 1999 with a first-named inventor who resided in the United States are included in this report.¹

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 Office for Patent and Trademark Information to develop statistical summaries of patent activity. A general description of the methodology used to generate the geographic distributions of patent activity is contained in the sections that follow.

For additional information about this report, or other patent data that are available from the USPTO, please contact the Office for Patent and Trademark Information by telephone at (703) 306-2600, or by facsimile at (703) 306-2737. Written correspondence should be addressed to:

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DATA SOURCES AND METHODOLOGY

The distributions of patents by state and 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);

¹ The majority of patents issued by the USPTO are utility (i.e. invention) patents. Other types of patents and patent documents issued by USPTO, but not included in this report, are plant patents, design patents, statutory invention registration documents, and defensive publications.

- 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.² 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. These patents are identified as county UNKNOWN in Table 3.

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.

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

² Although relatively few patents contain place names that correspond to multiple places within a single state, this can be a potentially serious source of error in the number of patents associated with some counties. This is particularly true if a larger city with a high volume of patent activity (e.g., Mountain View, CA) shares the same name as a small town with little or no patent activity. 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.

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 were not established for the entire period 1990-1999, although patent data are presented for the entire period. Thus, the total number of patents awarded to inventors who resided in metropolitan areas can change for earlier years if new or modified metropolitan areas are announced in the current year. In addition, changes to previously published data can result from corrections to the patent file. The Office for Patent and Trademark Information continuously monitors the content of the patent file to ensure the accuracy of the data. The number of patents associated with a particular geographic area may change slightly as state/country code errors in the patent file are identified and corrected.

DATA TABLES

Table 1. U.S. Utility Patent Grants by Metropolitan Area, 50 States, 1990-1999, Rank Ordered List, Based on 1999 Grants.

This table provides the number of utility patents awarded to inventors in each MSA, NECMA, and PMSA in the 50 states. Metropolitan areas are rank-ordered, by patent count, from highest to lowest. For metropolitan areas in the New England region, only NECMAs are included in Table 1, since patent counts are not available for the subcounty areas that comprise other categories of New England metropolitan areas.

Table 2. U.S. Utility Patent Grants by Metropolitan Area and Geographic Components, 1990-1999.

This table provides the total number of utility patents awarded to inventors in each CMSA, MSA, NECMA, and PMSA in the 50 states. Patent counts are also provided for the geographic components of each metropolitan area. Metropolitan areas are listed in the sequence of their FIPS metropolitan code, which is generally alphabetic order.

Table 3. U.S. Utility Patent Grants by State, County, and County Equivalents, United States and U.S. Possessions, 1990-1999.

This table provides the number of utility patents awarded to inventors in each U.S. state, county, or county equivalent, the District of Columbia, U.S. Pacific Islands, Guam, Puerto Rico, and the U.S. Virgin Islands. County equivalents include parishes in Louisiana, and borough/census areas in Alaska. Separate counts are provided for independent cities in Maryland, Missouri, Nevada, and Virginia. Fractional patent counts may occur for some counties when a patent is associated with multiple counties within a state; all fractional patent counts are rounded to the nearest whole number. County codes correspond to FIPS identifying codes, except code '999', which is used when a patent can not be associated with any county within a state (UNKNOWN). State totals represent the sum of county totals and state totals that contain fractional counts

are rounded to the nearest whole number. Alphabetic codes for each state correspond to U.S. Post Office abbreviations and numeric codes correspond to FIPS identifying codes.

TABLE 1. U.S. Utility Patent Grants by Metropolitan Area, 50 States, 1990-1999
Rank Ordered List, Based on 1999 Grants

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.

FIPS code	Metropolitan Area	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
7400	San Jose, CA PMSA	1295	1468	1603	1850	2099	2416	3036	3255	4931	5664
1123	Boston-Worcester-Lawrence-Lowell- -Brockton, MA-NH NECMA	2051	2092	2310	2343	2476	2318	2588	2747	3688	3806
1600	Chicago, IL PMSA	2086	2232	2389	2336	2260	2303	2476	2316	2959	2929
4480	Los Angeles-Long Beach, CA PMSA	1586	1804	1649	1646	1876	1710	1777	1807	2335	2348
5120	Minneapolis-St. Paul, MN-WI MSA	1154	1167	1223	1358	1513	1445	1539	1578	2051	2181
2160	Detroit, MI PMSA	1342	1464	1435	1564	1537	1484	1727	1500	1915	1964
6160	Philadelphia, PA-NJ PMSA	1213	1254	1252	1370	1426	1352	1513	1509	1758	1849
7320	San Diego, CA MSA	761	870	860	875	936	908	1115	1235	1673	1748
5600	New York, NY PMSA	1084	1182	1073	1133	1193	1132	1270	1228	1749	1704
7360	San Francisco, CA PMSA	557	651	658	670	682	801	921	1145	1707	1700
1920	Dallas, TX PMSA	750	796	849	843	1033	1060	1202	1147	1471	1644
5775	Oakland, CA PMSA	629	634	717	732	803	821	916	1012	1462	1589
0640	Austin-San Marcos, TX MSA	354	402	457	536	599	683	831	888	1440	1571
6840	Rochester, NY MSA	916	1168	1200	1392	1381	1227	1391	1338	1749	1568
3360	Houston, TX PMSA	1009	1126	1165	1110	1234	1190	1123	1152	1445	1567
5945	Orange County, CA PMSA	891	965	1032	1017	1113	1055	1084	1134	1484	1473
8840	Washington, DC-MD-VA-WV PMSA	755	770	815	839	883	913	974	958	1292	1299
7600	Seattle-Bellevue-Everett, WA PMSA	573	623	622	581	605	669	803	963	1275	1296
6200	Phoenix-Mesa, AZ MSA	493	625	632	626	701	753	831	799	1182	1152
5640	Newark, NJ PMSA	837	857	795	762	793	747	793	851	1014	1136
1080	Boise City, ID MSA	82	123	170	247	245	220	271	452	748	1093
5015	Middlesex-Somerset-Hunterdon, NJ PMSA	702	765	733	792	752	689	827	913	1027	1091
0520	Atlanta, GA MSA	461	468	471	522	597	641	761	744	1034	1045
5483	New Haven-Bridgeport-Stamford-Danbury- -Waterbury, CT NECMA	770	786	841	884	926	908	852	820	1024	1033
6640	Raleigh-Durham-Chapel Hill, NC MSA	233	294	303	344	399	399	493	527	828	939
6440	Portland-Vancouver, OR-WA PMSA	384	380	341	424	394	532	574	641	948	930
6280	Pittsburgh, PA MSA	741	715	658	655	698	573	634	567	736	809
1680	Cleveland-Lorain-Elyria, OH PMSA	605	625	648	615	660	566	540	576	755	786
1640	Cincinnati, OH-KY-IN PMSA	420	444	511	554	587	539	613	651	714	782
5380	Nassau-Suffolk, NY PMSA	575	559	518	460	560	572	658	581	768	753
7040	St. Louis, MO-IL MSA	436	536	555	510	510	526	536	666	743	743
0720	Baltimore, MD PMSA	369	397	439	445	495	425	470	535	647	664
2080	Denver, CO PMSA	346	321	375	378	413	430	439	435	581	572
3480	Indianapolis, IN MSA	318	327	325	334	375	432	542	538	556	544
5190	Monmouth-Ocean, NJ PMSA	298	333	351	358	374	401	444	420	497	537
5080	Milwaukee-Waukesha, WI PMSA	411	382	385	413	462	451	446	387	502	530
0875	Bergen-Passaic, NJ PMSA	333	357	355	348	362	359	406	369	481	502
0440	Ann Arbor, MI PMSA	236	273	226	283	331	299	369	359	388	488
3283	Hartford, CT NECMA	389	418	410	459	468	419	374	375	507	485
1125	Boulder-Longmont, CO PMSA	160	148	187	216	257	290	288	330	446	476
7160	Salt Lake City-Ogden, UT MSA	236	263	269	307	295	343	401	431	472	474
0160	Albany-Schenectady-Troy, NY MSA	429	490	523	461	531	509	527	402	467	445
9160	Wilmington-Newark, DE-MD PMSA	403	507	520	505	432	426	470	364	413	419
8960	West Palm Beach-Boca Raton, FL MSA	209	207	263	282	322	358	355	395	472	403
8280	Tampa-St. Petersburg-Clearwater, FL MSA	243	278	270	217	262	274	260	286	382	386
3000	Grand Rapids-Muskegon-Holland, MI MSA	220	260	267	257	291	260	275	295	368	372
2281	Dutchess County, NY PMSA	110	123	165	212	234	237	290	266	329	368
6780	Riverside-San Bernardino, CA PMSA	195	238	255	270	226	266	258	275	353	351

FIPS code	Metropolitan Area	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1280	Buffalo-Niagara Falls, NY MSA	268	282	297	266	249	272	253	270	318	346
8480	Trenton, NJ PMSA	378	381	345	341	336	300	345	321	361	345
1840	Columbus, OH MSA	207	262	237	216	265	253	307	278	342	344
2680	Fort Lauderdale, FL PMSA	247	236	277	274	325	358	347	298	349	339
8735	Ventura, CA PMSA	234	228	236	225	280	260	250	273	321	328
2000	Dayton-Springfield, OH MSA	318	313	274	250	204	247	276	274	348	325
0240	Allentown-Bethlehem-Easton, PA MSA	198	234	226	243	255	244	229	186	244	299
6920	Sacramento, CA PMSA	121	140	146	163	191	207	238	231	289	295
2800	Fort Worth-Arlington, TX PMSA	146	151	173	178	200	219	251	247	297	286
0080	Akron, OH PMSA	239	276	243	227	256	238	229	280	298	284
2670	Fort Collins-Loveland, CO MSA	61	100	94	120	148	119	148	126	271	280
3760	Kansas City, MO-KS MSA	156	169	181	153	163	181	195	176	240	277
8520	Tucson, AZ MSA	129	160	148	182	185	200	183	202	250	273
1720	Colorado Springs, CO MSA	72	84	108	103	112	130	165	186	278	270
5000	Miami, FL PMSA	165	190	215	189	181	196	187	211	231	262
4720	Madison, WI MSA	91	139	143	144	141	164	202	226	258	261
1520	Charlotte-Gastonia-Rock Hill, NC-SC MSA	172	172	159	170	168	188	192	234	257	260
7240	San Antonio, TX MSA	115	101	122	121	145	142	158	154	197	257
3160	Greenville-Spartanburg-Anderson, SC MSA	170	169	203	179	192	187	216	205	261	255
1305	Burlington, VT NECMA	71	60	67	72	71	97	179	218	246	249
7485	Santa Cruz-Watsonville, CA PMSA	75	78	64	94	94	106	158	167	243	245
6960	Saginaw-Bay City-Midland, MI MSA	318	327	340	280	280	261	277	227	248	230
6820	Rochester, MN MSA	51	37	38	64	85	77	102	116	209	229
0200	Albuquerque, NM MSA	100	129	132	123	135	162	140	168	228	228
3120	Greensboro--Winston-Salem--High Point, NC MSA	170	193	181	169	174	178	200	209	234	224
8400	Toledo, OH MSA	158	138	148	126	130	138	127	166	185	223
6483	Providence-Warwick-Pawtucket, RI NECMA	129	173	171	183	173	162	177	181	221	221
0460	Appleton-Oshkosh-Neenah, WI MSA	142	117	124	97	98	120	162	182	193	213
7480	Santa Barbara-Santa Maria-Lompoc, CA MSA	136	136	130	128	113	164	156	171	241	212
5960	Orlando, FL MSA	197	181	187	167	152	161	169	165	229	200
3840	Knoxville, TN MSA	111	106	86	102	108	127	138	144	182	198
0960	Binghamton, NY MSA	106	96	93	109	137	123	135	124	191	190
6120	Peoria-Pekin, IL MSA	65	81	73	105	104	131	172	159	177	186
4900	Melbourne-Titusville-Palm Bay, FL MSA	100	103	95	106	92	92	132	147	143	178
8560	Tulsa, OK MSA	250	226	240	230	199	181	175	156	189	178
4280	Lexington, KY MSA	59	72	72	68	80	68	99	97	129	175
8160	Syracuse, NY MSA	151	192	167	151	153	150	132	119	176	171
3200	Hamilton-Middletown, OH PMSA	69	94	105	132	138	101	157	146	190	168
4920	Memphis, TN-AR-MS MSA	89	79	103	85	104	102	142	157	145	168
4120	Las Vegas, NV-AZ MSA	49	75	75	70	87	82	107	101	141	165
4520	Louisville, KY-IN MSA	142	135	99	126	106	102	113	112	121	162
0760	Baton Rouge, LA MSA	193	204	181	170	150	150	124	129	158	160
2760	Fort Wayne, IN MSA	110	123	103	109	100	88	104	136	140	159
4000	Lancaster, PA MSA	114	116	114	86	93	93	115	82	121	153
5880	Oklahoma City, OK MSA	102	104	120	122	104	114	120	133	130	146
6760	Richmond-Petersburg, VA MSA	133	174	189	184	150	132	143	152	125	146
2120	Des Moines, IA MSA	48	53	48	46	56	70	67	75	128	145
3660	Johnson City-Kingsport-Bristol, TN-VA MSA	118	98	109	134	126	110	102	110	120	145
3240	Harrisburg-Lebanon-Carlisle, PA MSA	145	170	171	145	119	125	136	106	145	143
3720	Kalamazoo-Battle Creek, MI MSA	105	95	122	131	116	109	126	89	120	143
1360	Cedar Rapids, IA MSA	67	60	59	72	74	56	73	70	92	141
7500	Santa Rosa, CA PMSA	67	65	76	68	71	90	94	114	122	141
5360	Nashville, TN MSA	78	96	92	89	106	133	99	111	129	140
5560	New Orleans, LA MSA	119	115	146	127	102	95	135	106	131	136
5523	New London-Norwich, CT NECMA	90	104	95	106	100	118	109	118	128	134
5720	Norfolk-Virginia Beach-Newport News, VA-NC MSA	114	122	144	156	129	113	126	108	143	132
7510	Sarasota-Bradenton, FL MSA	75	54	77	77	74	67	84	75	111	132
3600	Jacksonville, FL MSA	60	59	83	79	70	78	99	113	141	131
6880	Rockford, IL MSA	169	197	135	94	102	91	110	96	131	131
6680	Reading, PA MSA	40	61	55	59	62	61	59	71	87	129
1320	Canton-Massillon, OH MSA	73	92	84	114	86	98	113	92	124	125
6520	Provo-Orem, UT MSA	47	46	58	51	47	53	52	69	92	122

FIPS code	Metropolitan Area	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
3440	Huntsville, AL MSA	110	93	75	81	77	75	84	75	110	107
9270	Yolo, CA PMSA	26	24	33	30	39	35	57	70	81	103
9040	Wichita, KS MSA	77	56	67	47	55	53	59	48	82	102
1890	Corvallis, OR MSA	37	55	55	39	36	55	61	65	109	101
8003	Springfield, MA NECMA	76	89	101	72	101	95	92	70	109	101
6720	Reno, NV MSA	41	73	50	46	61	59	68	67	101	96
2900	Gainesville, FL MSA	60	68	64	63	63	72	74	85	102	95
3060	Greeley, CO PMSA	37	37	30	45	56	55	60	61	86	95
6600	Racine, WI PMSA	61	53	64	38	55	49	50	64	71	94
4040	Lansing-East Lansing, MI MSA	44	48	75	56	51	62	84	70	116	93
5660	Newburgh, NY-PA PMSA	49	37	46	58	47	66	75	62	98	92
9280	York, PA MSA	51	58	60	46	39	45	57	65	94	91
1145	Brazoria, TX PMSA	146	130	123	123	121	97	83	78	116	89
1000	Birmingham, AL MSA	47	63	40	52	50	51	55	63	79	87
2640	Flint, MI PMSA	48	55	85	55	66	58	60	66	61	87
2360	Erie, PA MSA	54	49	56	46	55	50	60	46	51	84
1960	Davenport-Moline-Rock Island, IA-IL MSA	43	41	45	40	39	43	46	42	50	82
1760	Columbia, SC MSA	61	60	43	64	54	51	60	37	67	78
4400	Little Rock-North Little Rock, AR MSA	40	28	31	30	36	22	34	30	46	77
7560	Scranton--Wilkes-Barre--Hazleton, PA MSA	41	44	51	43	41	33	45	44	80	77
5160	Mobile, AL MSA	34	43	28	38	31	29	29	47	56	75
3920	Lafayette, IN MSA	50	46	34	42	59	60	59	84	65	74
3640	Jersey City, NJ PMSA	45	47	41	34	41	30	45	45	79	72
0743	Barnstable-Yarmouth, MA NECMA	29	42	41	45	32	40	46	50	49	70
1440	Charleston-North Charleston, SC MSA	39	62	61	48	32	50	57	56	75	69
5920	Omaha, NE-IA MSA	55	74	61	67	57	68	69	79	84	68
7490	Santa Fe, NM MSA	60	48	58	59	52	55	55	53	74	68
7800	South Bend, IN MSA	51	72	81	69	63	54	62	45	76	67
8680	Utica-Rome, NY MSA	32	32	37	43	28	35	43	55	45	67
9320	Youngstown-Warren, OH MSA	62	72	65	62	46	42	50	57	85	67
2960	Gary, IN PMSA	53	42	39	50	47	38	54	44	55	66
8720	Vallejo-Fairfield-Napa, CA PMSA	30	32	44	49	40	44	51	47	61	66
2440	Evansville-Henderson, IN-KY MSA	77	68	42	49	51	66	58	34	50	64
8200	Tacoma, WA PMSA	61	60	59	50	55	53	38	54	49	64
8050	State College, PA MSA	15	33	26	25	33	36	37	46	45	63
4360	Lincoln, NE MSA	37	41	34	47	48	38	44	42	69	62
7120	Salinas, CA MSA	32	27	27	33	40	33	46	42	45	61
7460	Luis Obispo-Atascadero-Paso Robles, CA MSA	22	28	30	31	34	36	34	42	63	61
3880	Lafayette, LA MSA	40	42	33	34	32	38	45	37	74	60
2400	Eugene-Springfield, OR MSA	45	38	28	47	60	57	61	50	76	59
1400	Champaign-Urbana, IL MSA	28	26	24	47	43	40	49	35	56	58
1560	Chattanooga, TN-GA MSA	39	52	47	48	43	43	44	44	51	58
2330	Elkhart-Goshen, IN MSA	37	46	42	58	37	36	48	36	51	58
2920	Galveston-Texas City TX PMSA	32	41	45	51	53	44	42	35	60	58
2700	Fort Myers-Cape Coral, FL MSA	38	40	38	36	35	48	46	45	62	57
3850	Kokomo, IN MSA	28	34	39	24	34	52	68	48	56	57
0680	Bakersfield, CA MSA	50	92	73	57	73	58	54	34	65	56
4640	Lynchburg, VA MSA	43	45	73	50	40	48	38	47	61	56
6740	Richland-Kennewick-Pasco, WA MSA	40	31	44	43	35	40	39	48	62	55
3290	Hickory-Morganton-Lenoir, NC MSA	29	36	41	33	45	38	29	38	46	54
3320	Honolulu, HI MSA	56	43	53	57	44	46	46	51	47	54
1260	Bryan-College Station, TX MSA	15	25	28	39	38	37	38	31	36	52
3500	Iowa City, IA MSA	21	15	29	25	16	33	28	24	47	51
7840	Spokane, WA MSA	42	39	42	52	47	42	38	41	50	51
0560	Atlantic-Cape May, NJ PMSA	17	26	19	29	29	28	31	22	31	50
2710	Fort Pierce-Port St. Lucie, FL MSA	29	37	53	49	45	37	45	36	64	50
9200	Wilmington, NC MSA	24	28	25	36	36	38	38	30	40	50
2290	Eau Claire, WI MSA	15	20	40	40	35	33	31	29	48	49
2840	Fresno, CA MSA	25	31	40	41	46	40	39	41	53	48
1150	Bremerton, WA PMSA	9	10	15	27	24	14	35	28	37	46
2335	Elmira, NY MSA	49	30	41	47	55	26	36	29	36	46
3800	Kenosha, WI PMSA	27	21	14	43	20	43	30	29	31	46

FIPS code	Metropolitan Area	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1480	Charleston, WV MSA	60	53	73	78	43	40	28	39	55	45
0600	Augusta-Aiken, GA-SC MSA	23	29	55	47	54	46	33	29	38	44
1540	Charlottesville, VA MSA	38	40	24	28	26	23	33	32	48	44
8120	Stockton-Lodi, CA MSA	37	33	40	23	33	39	40	30	44	44
3080	Green Bay, WI MSA	21	30	44	21	27	31	40	32	34	43
8240	Tallahassee, FL MSA	15	10	16	22	27	30	28	31	36	42
0480	Asheville, NC MSA	19	30	36	29	36	46	47	60	47	41
2020	Daytona Beach, FL MSA	30	28	42	40	43	34	24	33	54	41
6080	Pensacola, FL MSA	30	30	18	32	22	27	29	34	33	41
0500	Athens, GA MSA	15	16	22	23	24	26	20	19	42	40
5170	Modesto, CA MSA	28	31	31	27	37	36	30	26	35	40
0870	Benton Harbor, MI MSA	43	59	46	61	57	39	37	31	44	39
3620	Janesville-Beloit, WI MSA	31	31	26	27	28	23	32	22	38	39
6403	Portland, ME NECMA	35	28	35	48	42	31	33	40	45	38
5345	Naples, FL MSA	22	22	29	24	26	37	30	36	35	37
6800	Roanoke, VA MSA	30	42	44	52	59	38	32	30	48	37
7620	Sheboygan, WI MSA	36	50	38	47	37	41	34	37	44	36
3560	Jackson, MS MSA	18	19	14	12	25	15	16	21	47	35
4420	Longview-Marshall, TX MSA	26	27	24	23	24	28	26	14	25	35
2320	El Paso, TX MSA	23	23	21	14	12	20	18	19	25	34
2580	Fayetteville-Springdale-Rogers, AR MSA	11	22	36	20	22	31	20	27	34	34
7080	Salem, OR PMSA	22	27	24	21	20	22	24	18	37	34
3980	Lakeland-Winter Haven, FL MSA	24	34	27	28	35	26	28	36	38	33
2240	Duluth-Superior, MN-WI MSA	10	15	15	16	23	16	19	15	19	32
6015	Panama City, FL MSA	31	19	11	10	15	13	17	27	35	32
0380	Anchorage, AK MSA	14	24	19	27	30	24	20	25	31	30
0860	Bellingham, WA MSA	29	33	21	26	23	32	33	26	42	30
3350	Houma, LA MSA	17	16	16	13	15	12	7	16	18	30
7920	Springfield, MO MSA	46	40	32	25	35	35	32	33	32	30
3520	Jackson, MI MSA	31	36	46	36	37	27	28	31	40	29
3870	La Crosse, WI-MN MSA	11	23	13	23	14	14	26	22	25	29
4600	Lubbock, TX MSA	21	24	14	15	21	24	25	25	24	29
1020	Bloomington, IN MSA	10	17	16	22	17	14	17	13	20	28
2520	Fargo-Moorhead, ND-MN MSA	12	21	22	16	13	25	24	19	28	28
2620	Flagstaff, AZ-UT MSA	8	12	18	15	14	19	6	11	20	28
4680	Macon, GA MSA	17	17	27	19	22	21	22	16	23	27
6020	Parkersburg-Marietta, WV-OH MSA	30	43	32	24	30	34	24	37	45	27
6323	Pittsfield, MA NECMA	35	49	34	34	23	12	28	28	30	27
9140	Williamsport, PA MSA	28	18	21	13	19	30	20	19	21	27
1740	Columbia, MO MSA	18	20	20	16	13	22	17	32	24	26
2750	Fort Walton Beach, FL MSA	10	12	9	5	8	5	12	12	15	26
4150	Lawrence, KS MSA	19	13	18	23	16	10	17	14	23	26
1880	Corpus Christi, TX MSA	21	23	28	26	33	27	24	25	33	25
3400	Huntington-Ashland, WV-KY-OH MSA	31	25	24	23	26	16	15	11	19	25
7640	Sherman-Denison, TX MSA	18	17	20	14	16	8	34	33	19	25
0840	Beaumont-Port Arthur, TX MSA	38	37	43	46	43	47	52	26	33	24
3810	Killeen-Temple, TX MSA	3	7	7	9	11	5	9	9	22	24
7760	Sioux Falls, SD MSA	10	12	9	11	13	7	10	10	18	24
0920	Biloxi-Gulfport-Pascagoula, MS MSA	19	17	16	20	19	16	16	21	20	22
2655	Florence, SC MSA	9	11	10	12	21	17	19	22	19	22
2975	Glens Falls, NY MSA	28	25	27	34	23	20	26	23	20	22
7610	Sharon, PA MSA	11	9	6	9	13	9	8	15	20	22
3580	Jackson, TN MSA	4	8	5	10	10	7	9	5	12	21
3680	Johnstown, PA MSA	5	10	7	9	16	13	12	15	22	21
5240	Montgomery, AL MSA	15	10	19	15	13	17	17	14	17	21
7720	Sioux City, IA-NE MSA	7	6	5	6	8	5	13	9	21	20
8320	Terre Haute, IN MSA	16	25	12	14	13	10	9	12	16	20
0580	Auburn-Opelika, AL MSA	17	11	14	3	7	14	12	13	15	19
1040	Bloomington-Normal, IL MSA	7	14	10	9	12	20	10	9	22	19
6580	Punta Gorda, FL MSA	12	14	18	14	13	5	25	13	22	19
3710	Joplin, MO MSA	18	15	14	12	13	11	22	22	18	18
3960	Lake Charles, LA MSA	12	13	13	11	15	12	10	4	14	18

FIPS code	Metropolitan Area	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
5790	Ocala, FL MSA	15	18	25	14	24	19	19	11	27	18
5800	Odessa-Midland, TX MSA	15	16	12	18	28	19	21	23	21	18
6690	Redding, CA MSA	7	7	10	9	14	13	14	17	14	18
8920	Waterloo-Cedar Falls, IA MSA	20	17	18	17	13	18	12	7	14	18
2190	Dover, DE MSA	12	13	11	8	13	10	6	13	11	17
4800	Mansfield, OH MSA	15	16	10	17	30	13	19	12	17	17
7880	Springfield, IL MSA	20	14	17	22	23	14	11	22	16	17
3150	Greenville, NC MSA	7	6	8	7	19	10	18	17	23	16
8440	Topeka, KS MSA	6	6	8	8	10	11	9	12	15	16
8640	Tyler, TX MSA	8	11	18	12	14	19	11	19	20	16
2040	Decatur, IL MSA	15	10	8	10	18	24	14	21	30	15
2650	Florence, AL MSA	26	26	21	18	13	13	15	15	13	15
2720	Fort Smith, AR-OK MSA	12	11	15	10	16	8	8	16	16	15
7520	Savannah, GA MSA	15	10	15	10	11	14	11	16	19	15
8080	Steubenville-Weirton, OH-WV MSA	8	13	8	14	18	15	11	25	14	15
9260	Yakima, WA MSA	19	14	12	15	14	14	16	14	21	15
0320	Amarillo, TX MSA	11	12	13	19	19	13	14	13	19	14
1620	Chico-Paradise, CA MSA	47	22	16	12	14	14	8	12	22	14
2030	Decatur, AL MSA	8	8	4	4	9	12	4	6	13	14
4100	Las Cruces, NM MSA	9	16	12	19	15	3	9	12	15	14
4320	Lima, OH MSA	32	29	15	23	11	9	5	15	9	14
4890	Medford-Ashland, OR MSA	11	21	24	21	27	30	17	13	28	14
5330	Myrtle Beach, SC MSA	11	5	6	8	9	9	14	9	15	14
7680	Shreveport-Bossier City, LA MSA	34	30	24	28	26	25	22	25	25	14
0280	Altoona, PA MSA	8	9	9	8	8	5	8	7	8	13
3700	Jonesboro, AR MSA	3	3	7	3	3	2	6	8	3	13
6980	St. Cloud, MN MSA	7	11	8	10	12	9	12	12	21	13
8780	Visalia-Tulare-Porterville, CA MSA	13	12	16	16	13	19	13	16	14	13
9000	Wheeling, WV-OH MSA	5	8	6	9	14	9	7	11	13	13
2200	Dubuque, IA MSA	13	24	11	11	5	9	7	8	13	12
3610	Jamestown, NY MSA	9	12	4	9	9	11	10	5	22	12
4940	Merced, CA MSA	2	6	9	6	4	5	4	9	8	12
5140	Missoula, MT MSA	7	10	8	11	14	14	11	13	16	12
5910	Olympia, WA PMSA	5	8	5	3	8	11	9	10	15	12
2180	Dothan, AL MSA	2	2	9	1	6	10	7	7	12	11
2985	Grand Forks, ND-MN MSA	7	11	7	11	7	9	13	6	11	11
2995	Grand Junction, CO MSA	11	7	6	5	8	11	12	9	8	11
7000	St. Joseph, MO MSA	4	4	2	8	8	8	9	4	6	11
8940	Wausau, WI MSA	21	23	20	25	22	14	19	23	19	11
3285	Hattiesburg, MS MSA	6	15	10	6	4	6	8	10	8	10
3740	Kankakee, IL PMSA	5	7	9	10	8	11	5	9	11	10
6340	Pocatello, ID MSA	2	3	3	3	4	2	2	4	3	10
6560	Pueblo, CO MSA	3	11	5	8	7	6	6	9	6	10
8760	Vineland-Millville-Bridgeton, NJ PMSA	4	9	6	7	8	5	5	10	6	10
1240	Brownsville-Harlingen-San Benito, TX MSA	4	3	5	1	0	12	6	13	6	9
1800	Columbus, GA-AL MSA	7	12	15	8	6	11	7	9	9	9
2560	Fayetteville, NC MSA	6	13	7	7	4	2	7	6	10	9
8800	Waco, TX MSA	4	7	6	10	16	12	16	10	12	9
9080	Wichita Falls, TX MSA	10	10	10	16	14	12	10	6	11	9
0220	Alexandria, LA MSA	9	7	7	3	7	4	11	5	10	8
1350	Casper, WY MSA	5	3	4	5	9	5	2	6	8	8
1660	Clarksville-Hopkinsville, TN-KY MSA	6	9	12	5	3	10	5	4	10	8
1010	Bismarck, ND MSA	8	9	3	10	2	8	6	10	3	7
6895	Rocky Mount, NC MSA	3	6	6	3	3	10	7	2	4	7
8600	Tuscaloosa, AL MSA	8	12	1	7	4	5	8	11	4	7
0120	Albany, GA MSA	8	3	3	7	6	3	5	1	5	6
0880	Billings, MT MSA	8	8	10	9	5	11	5	2	5	6
2980	Goldsboro, NC MSA	3	1	4	3	1	5	4	2	3	6
3180	Hagerstown, MD PMSA	8	7	12	12	6	5	4	9	13	6
4200	Lawton, OK MSA	2	2	3	0	10	5	3	7	4	6
5200	Monroe, LA MSA	16	14	15	11	14	6	15	8	9	6
5990	Owensboro, KY MSA	4	4	4	1	8	4	4	3	2	6

FIPS code	Metropolitan Area	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
6660	Rapid City, SD MSA	6	1	8	3	10	6	6	10	2	6
8750	Victoria, TX MSA	2	7	3	4	2	2	3	2	4	6
9340	Yuba City, CA MSA	2	6	9	5	6	14	4	4	3	6
0040	Abilene, TX MSA	2	4	3	2	5	5	5	7	4	5
0733	Bangor, ME NECMA	5	3	2	1	6	2	4	2	8	5
1950	Danville, VA MSA	1	2	6	0	3	1	5	1	6	5
3040	Great Falls, MT MSA	4	4	4	3	3	2	2	2	4	5
4880	McAllen-Edinburg-Mission, TX MSA	0	2	2	7	5	3	3	5	5	5
8360	Texarkana, TX-Texarkana, AR MSA	2	4	3	3	7	4	7	4	3	5
7200	San Angelo, TX MSA	5	4	4	4	2	3	0	1	5	3
8140	Sumter, SC MSA	4	2	5	4	6	5	3	2	5	3
9360	Yuma, AZ MSA	3	3	7	2	1	4	11	0	5	3
0450	Anniston, AL MSA	2	5	2	3	2	4	8	6	3	2
1580	Cheyenne, WY MSA	1	8	4	5	1	2	6	1	6	2
2340	Enid, OK MSA	5	2	3	4	0	0	0	0	1	2
4243	Lewiston-Auburn, ME NECMA	9	5	8	7	3	4	5	3	6	2
5280	Muncie, IN MSA	7	8	4	11	12	16	14	4	10	2
1900	Cumberland, MD-WV MSA	2	5	5	1	8	4	2	3	3	1
3605	Jacksonville, NC MSA	0	2	1	2	3	5	4	0	4	1
6240	Pine Bluff, AR MSA	2	5	3	1	1	1	1	4	1	1
2880	Gadsden, AL MSA	1	3	2	5	3	9	4	3	1	0
4080	Laredo, TX MSA	1	2	1	1	4	1	1	0	3	0
Total (U.S. origin) utility patents											
	within MSA, NECMA, or PMSA (1)	43693	47106	48058	49154	51619	51413	56464	57306	74852	78128
	outside MSA, NECMA, or PMSA (2)	3804	4202	4318	4186	4541	4423	4736	4507	5565	5901
	Percent of patents in MSA, NECMA, or PMSA	92.0%	91.8%	91.8%	92.2%	91.9%	92.1%	92.3%	92.7%	93.1%	93.0%
	TOTAL (U.S. origin) utility patents (3)	47497	51308	52376	53340	56160	55836	61200	61813	80417	84029

(1) Includes metropolitan areas within the 50 states and District of Columbia; does not include metropolitan areas in Puerto Rico.

(2) Includes metropolitan areas in Puerto Rico.

(3) Totals may differ slightly from other published data due to cumulative rounding error (approximately two-tenths of one percent). In addition to the 50 States, District of Columbia, and Puerto Rico, Total patent count (U.S. origin) includes Guam, U.S. Pacific Islands, U.S. Virgin Islands, and patents for which a specific inventor state of residence could not be determined.

**TABLE 2. U.S. Utility Patent Grants By Metropolitan Area
And Geographic Components, 1990 - 1999**

Metropolitan areas and geographic components are based on definitions effective July 1, 1999. CMSA = consolidated metropolitan statistical area; MSA = metropolitan statistical area; NECMA = New England county metropolitan area; PMSA = primary metropolitan statistical area. Geographic codes are Federal Information Processing Standards codes. The geographic distribution of patents is based on the residence of the first-named inventor. Patent counts for parts of New England counties are not available "(n.a.)"; see note at the end of the New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA listing.

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
0040		Abilene, TX MSA	2	4	3	2	5	5	5	7	4	5
		Taylor County	2	4	3	2	5	5	5	7	4	5
0080		Akron, OH PMSA (See Cleveland-Akron, OH CMSA)	239	276	243	227	256	238	229	280	298	284
0120		Albany, GA MSA	8	3	3	7	6	3	5	1	5	6
		Dougherty County	7	3	2	6	4	3	3	1	4	5
		Lee County	1	0	1	1	2	0	2	0	1	1
0160		Albany-Schenectady-Troy, NY MSA	429	490	523	461	531	509	527	402	467	445
		Albany County	65	72	67	66	52	44	58	62	75	62
		Montgomery County	8	4	7	9	12	8	17	12	19	7
		Rensselaer County	39	42	42	33	55	34	39	31	27	45
		Saratoga County	97	122	143	140	150	143	156	116	146	131
		Schenectady County	218	246	262	212	260	279	255	180	200	195
		Schoharie County	2	4	2	1	2	1	2	1	0	5
0200		Albuquerque, NM MSA	100	129	132	123	135	162	140	168	228	228
		Bernalillo County	93	115	120	111	124	145	121	151	207	207
		Sandoval County	6	13	7	11	9	14	16	13	14	13
		Valencia County	1	1	5	1	2	3	3	4	7	8
0220		Alexandria, LA MSA	9	7	7	3	7	4	11	5	10	8
		Rapides Parish	9	7	7	3	7	4	11	5	10	8
0240		Allentown-Bethlehem-Easton, PA MSA	198	234	226	243	255	244	229	186	244	299
		Carbon County	4	4	1	3	9	4	5	6	3	5
		Lehigh County	154	183	167	181	186	187	169	134	179	234
		Northampton County	40	47	58	59	60	53	55	46	62	60
0280		Altoona, PA MSA	8	9	9	8	8	5	8	7	8	13
		Blair County	8	9	9	8	8	5	8	7	8	13
0320		Amarillo, TX MSA	11	12	13	19	19	13	14	13	19	14
		Potter County	5	5	5	6	7	4	5	5	8	6
		Randall County	6	7	8	13	12	9	9	8	11	8
0380		Anchorage, AK MSA	14	24	19	27	30	24	20	25	31	30
		Anchorage Borough	14	24	19	27	30	24	20	25	31	30
0440		Ann Arbor, MI PMSA (See Detroit-Ann Arbor-Flint, MI CMSA)	236	273	226	283	331	299	369	359	388	488
0450		Anniston, AL MSA	2	5	2	3	2	4	8	6	3	2
		Calhoun County	2	5	2	3	2	4	8	6	3	2

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
0460			Appleton-Oshkosh-Neenah, WI MSA	142	117	124	97	98	120	162	182	193
		Calumet County	21	23	28	24	24	30	31	41	40	50
		Outagamie County	24	23	27	19	15	28	44	50	53	48
		Winnebago County	97	71	69	54	59	62	87	91	100	115
0480		Asheville, NC MSA	19	30	36	29	36	46	47	60	47	41
		Buncombe County	19	29	36	29	36	46	45	59	46	40
		Madison County	0	1	0	0	0	0	2	1	1	1
0500		Athens, GA MSA	15	16	22	23	24	26	20	19	42	40
		Clarke County	12	14	19	22	20	20	18	17	34	33
		Madison County	0	0	0	0	0	2	2	0	0	1
		Oconee County	3	2	3	1	4	4	0	2	8	6
0520		Atlanta, GA MSA	461	468	471	522	597	641	761	744	1034	1045
		Barrow County	1	3	2	0	1	1	0	2	2	4
		Bartow County	9	4	7	1	3	5	5	3	10	1
		Carroll County	9	6	9	8	10	7	6	7	3	2
		Cherokee County	10	11	7	13	14	14	29	20	24	14
		Clayton County	6	8	11	8	3	9	12	5	12	5
		Cobb County	87	79	99	86	134	138	152	132	168	160
		Coweta County	4	5	6	4	9	10	12	5	6	9
		DeKalb County	133	115	129	129	136	134	166	151	223	234
		Douglas County	3	4	4	7	8	11	5	10	23	21
		Fayette County	5	3	3	5	9	3	8	12	19	17
		Forsyth County	4	4	7	8	9	14	20	14	19	30
		Fulton County	80	84	77	105	115	134	147	161	230	250
		Gwinnett County	93	116	95	128	121	137	158	191	252	250
		Henry County	2	3	3	4	3	3	5	7	9	10
		Newton County	3	4	2	2	2	2	1	6	5	6
		Paulding County	1	0	2	3	1	1	0	1	3	6
		Pickens County	0	1	0	0	0	0	1	2	0	4
		Rockdale County	10	13	8	8	14	17	28	12	25	17
		Spalding County	0	1	0	2	3	1	2	0	0	2
		Walton County	1	4	0	1	2	0	4	3	1	3
0560		Atlantic-Cape May, NJ PMSA (See Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA)	17	26	19	29	29	28	31	22	31	50
0580		Auburn-Opelika, AL MSA	17	11	14	3	7	14	12	13	15	19
		Lee County	17	11	14	3	7	14	12	13	15	19
0600		Augusta-Aiken, GA-SC MSA	23	29	55	47	54	46	33	29	38	44
		Columbia County, GA	3	6	7	5	5	7	7	4	5	7
		McDuffie County, GA	1	2	1	1	1	0	1	2	0	1
		Richmond County, GA	10	9	21	10	17	10	10	8	12	11
		Aiken County, SC	7	10	24	27	30	26	14	14	17	22
		Edgefield County, SC	2	2	2	4	1	3	1	1	4	3
0640		Austin-San Marcos, TX MSA	354	402	457	536	599	683	831	888	1440	1571
		Bastrop County	9	7	12	3	8	7	6	9	31	71
		Caldwell County	6	4	4	2	4	2	4	1	2	2
		Hays County	9	5	8	9	7	12	23	23	25	31
		Travis County	162	189	213	258	288	333	397	433	691	736
		Williamson County	168	197	220	264	292	329	401	422	691	731
0680		Bakersfield, CA MSA	50	92	73	57	73	58	54	34	65	56
		Kern County	50	92	73	57	73	58	54	34	65	56

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
0720		Baltimore, MD PMSA (See Washington-Baltimore, DC-MD-VA-WV CMSA)	369	397	439	445	495	425	470	535	647	664
0730		Bangor, ME MSA Penobscot County (part) Waldo County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0733		Bangor, ME NECMA Penobscot County	5	3	2	1	6	2	4	2	8	5
0740		Barnstable-Yarmouth, MA MSA Barnstable County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0743		Barnstable-Yarmouth, MA NECMA Barnstable County	29	42	41	45	32	40	46	50	49	70
0760		Baton Rouge, LA MSA Ascension Parish East Baton Rouge Parish Livingston Parish West Baton Rouge Parish	193	204	181	170	150	150	124	129	158	160
0840		Beaumont-Port Arthur, TX MSA Hardin County Jefferson County Orange County	38	37	43	46	43	47	52	26	33	24
0860		Bellingham, WA MSA Whatcom County	29	33	21	26	23	32	33	26	42	30
0870		Benton Harbor, MI MSA Berrien County	43	59	46	61	57	39	37	31	44	39
0875		Bergen-Passaic, NJ PMSA (See New York-Northern New Jersey- Long Island, NY-NJ-CT-PA CMSA)	333	357	355	348	362	359	406	369	481	502
0880		Billings, MT MSA Yellowstone County	8	8	10	9	5	11	5	2	5	6
0920		Biloxi-Gulfport-Pascagoula, MS MSA Hancock County Harrison County Jackson County	19	17	16	20	19	16	16	21	20	22
0960		Binghamton, NY MSA Broome County Tioga County	106	96	93	109	137	123	135	124	191	190
1000		Birmingham, AL MSA Blount County Jefferson County St. Clair County Shelby County	47	63	40	52	50	51	55	63	79	87
1010		Bismarck, ND MSA Burleigh County Morton County	8	9	3	10	2	8	6	10	3	7
1020		Bloomington, IN MSA Monroe County	10	17	16	22	17	14	17	13	20	28

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1040		Bloomington-Normal, IL MSA	7	14	10	9	12	20	10	9	22	19
		McLean County	7	14	10	9	12	20	10	9	22	19
1080		Boise City, ID MSA	82	123	170	247	245	220	271	452	748	1093
		Ada County	74	116	166	236	235	213	255	428	707	1012
		Canyon County	8	7	4	11	10	7	16	24	41	81
1120		Boston, MA-NH PMSA (See Boston-Worcester-Lawrence, MA-NJ-ME-CT CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1122		Boston-Worcester-Lawrence MA-NH-ME-CT CMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	1120	Boston, MA-NH PMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Bristol County, MA (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Essex County, MA (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Middlesex County, MA (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Norfolk County, MA (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Plymouth County, MA (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Suffolk County, MA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Worcester County, MA (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Rockingham County, NH (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	1200	Brockton, MA PMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Bristol County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Norfolk County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Plymouth County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	2600	Fitchburg-Leominster, MA PMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Middlesex County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Worcester County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	4160	Lawrence, MA-NH PMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Essex County, MA (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Rockingham County, NH (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	4560	Lowell, MA-NH PMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Middlesex County, MA (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Hillsborough County, NH (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	4760	Manchester, NH PMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Hillsborough County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Merrimack County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Rockingham County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	5350	Nashua, NH PMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Hillsborough County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	5400	New Bedford, MA PMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Bristol County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Plymouth County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	6450	Portsmouth-Rochester, NH-ME PMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		York County, ME (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Rockingham County, NH (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Strafford County, NH (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	9240	Worcester, MA-CT PMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Windham County, CT (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Hampden County, MA (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Worcester County, MA (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1123		Boston-Worcester-Lawrence-Lowell- Brockton, MA-NH NECMA	2051	2092	2310	2343	2476	2318	2588	2747	3688	3806
		Bristol County, MA	62	77	65	78	122	87	95	100	139	135
		Essex County, MA	196	219	199	224	252	230	264	264	327	338
		Middlesex County, MA	930	909	1069	1033	1036	995	1102	1199	1568	1651
		Norfolk County, MA	275	273	295	303	325	275	313	384	481	485
		Plymouth County, MA	67	72	66	66	61	76	77	74	123	110
		Suffolk County, MA	84	79	105	132	132	123	148	151	237	216
		Worcester County, MA	191	216	241	211	237	220	274	241	333	370
		Hillsborough County, NH	147	128	135	163	176	160	159	180	283	285
		Rockingham County, NH	72	78	88	86	93	106	107	104	145	167
		Strafford County, NH	27	41	47	47	42	46	49	50	52	49

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1125		Boulder-Longmont, CO PMSA (See Denver-Boulder-Greeley, CO CMSA)	160	148	187	216	257	290	288	330	446	476
1145		Brazoria, TX PMSA (See Houston-Galveston-Brazoria, TX CMSA)	146	130	123	123	121	97	83	78	116	89
1150		Bremerton, WA PMSA (See Seattle-Tacoma-Bremerton, WA CMSA)	9	10	15	27	24	14	35	28	37	46
1160		Bridgeport, CT PMSA (See New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1200		Brockton, MA PMSA (See Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1240		Brownsville-Harlingen-San Benito, TX MSA Cameron County	4	3	5	1	0	12	6	13	6	9
1260		Bryan-College Station, TX MSA Brazos County	15	25	28	39	38	37	38	31	36	52
1280		Buffalo-Niagara Falls, NY MSA Erie County Niagara County	268	282	297	266	249	272	253	270	318	346
1303		Burlington, VT MSA Chittenden County (part) Franklin County (part) Grand Isle County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1305		Burlington, VT NECMA Chittenden County Franklin County Grand Isle County	71	60	67	72	71	97	179	218	246	249
1320		Canton-Massillon, OH MSA Carroll County Stark County	73	92	84	114	86	98	113	92	124	125
1350		Casper, WY MSA Natrona County	5	3	4	5	9	5	2	6	8	8
1360		Cedar Rapids, IA MSA Linn County	67	60	59	72	74	56	73	70	92	141
1400		Champaign-Urbana, IL MSA Champaign County	28	26	24	47	43	40	49	35	56	58
1440		Charleston-North Charleston, SC MSA Berkeley County Charleston County Dorchester County	39	62	61	48	32	50	57	56	75	69
1480		Charleston, WV MSA Kanawha County Putnam County	60	53	73	78	43	40	28	39	55	45

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1520		Charlotte-Gastonia-Rock Hill, NC-SC MSA	172	172	159	170	168	188	192	234	257	260
		Cabarrus County, NC	6	7	13	9	14	13	6	21	12	23
		Gaston County, NC	12	12	20	24	22	20	25	18	41	31
		Lincoln County, NC	0	2	1	1	2	6	3	10	9	9
		Mecklenburg County, NC	109	122	98	99	106	109	134	136	148	161
		Rowan County, NC	11	9	3	2	1	4	2	5	4	4
		Union County, NC	8	4	4	9	4	12	4	8	10	10
		York County, SC	26	16	20	26	19	24	18	36	33	22
1540		Charlottesville, VA MSA	38	40	24	28	26	23	33	32	48	44
		Albemarle County	14	7	7	7	3	5	5	5	8	9
		Fluvanna County	2	0	1	3	3	1	0	2	2	2
		Greene County	0	0	1	0	0	0	0	0	0	0
		Charlottesville (city)	22	33	15	18	20	17	28	25	38	33
1560		Chattanooga, TN-GA MSA	39	52	47	48	43	43	44	44	51	58
		Catoosa County, GA	3	3	3	2	0	1	3	6	2	2
		Dade County, GA	0	0	0	0	1	0	1	0	1	1
		Walker County, GA	2	1	3	4	2	4	2	4	4	3
		Hamilton County, TN	34	48	41	41	39	38	38	34	44	52
		Marion County, TN	0	0	0	1	1	0	0	0	0	0
1580		Cheyenne, WY MSA	1	8	4	5	1	2	6	1	6	2
		Laramie County	1	8	4	5	1	2	6	1	6	2
1600		Chicago, IL PMSA (See Chicago-Gary-Kenosha, IL-IN-WI CMSA)	2086	2232	2389	2336	2260	2303	2476	2316	2959	2929
1602		Chicago-Gary-Kenosha, IL-IN-WI CMSA	2171	2302	2451	2439	2335	2395	2565	2398	3056	3051
	1600	Chicago, IL PMSA	2086	2232	2389	2336	2260	2303	2476	2316	2959	2929
		Cook County	922	978	1015	971	919	981	996	888	1124	1113
		DeKalb County	9	4	6	13	11	12	16	15	21	24
		DuPage County	528	584	601	599	600	565	586	555	711	755
		Grundy County	4	6	6	3	3	7	5	8	6	3
		Kane County	124	93	103	123	119	115	115	129	152	171
		Kendall County	7	8	7	16	13	8	10	10	18	12
		Lake County	286	326	391	375	349	357	452	453	563	485
		McHenry County	77	91	101	91	114	127	125	113	160	146
		Will County	129	142	159	145	132	131	171	145	204	220
	2960	Gary, IN PMSA	53	42	39	50	47	38	54	44	55	66
		Lake County	36	31	22	32	32	24	36	34	37	47
		Porter County	17	11	17	18	15	14	18	10	18	19
	3740	Kankakee, IL PMSA	5	7	9	10	8	11	5	9	11	10
		Kankakee County	5	7	9	10	8	11	5	9	11	10
	3800	Kenosha, WI PMSA	27	21	14	43	20	43	30	29	31	46
		Kenosha County	27	21	14	43	20	43	30	29	31	46
1620		Chico-Paradise, CA MSA	47	22	16	12	14	14	8	12	22	14
		Butte County	47	22	16	12	14	14	8	12	22	14
1640		Cincinnati, OH-KY-IN PMSA (See Cincinnati-Hamilton, OH-KY-IN CMSA)	420	444	511	554	587	539	613	651	714	782
1642		Cincinnati-Hamilton, OH-KY-IN CMSA	489	538	616	686	725	640	770	797	904	950
	1640	Cincinnati, OH-KY-IN PMSA	420	444	511	554	587	539	613	651	714	782
		Dearborn County, IN	2	7	4	7	4	6	6	3	5	9
		Ohio County, IN	0	0	0	0	0	0	2	0	1	0
		Boone County, KY	10	6	8	9	11	19	15	6	14	14
		Campbell County, KY	8	6	11	8	5	7	8	12	9	14
		Gallatin County, KY	0	0	0	0	0	0	0	0	0	0
		Grant County, KY	0	0	1	0	0	0	0	2	0	0
		Kenton County, KY	13	16	6	11	17	6	10	12	16	15
		Pendleton County, KY	0	5	5	6	1	0	4	0	1	0
		Brown County, OH	1	0	2	3	2	1	2	2	4	1
		(continued)										

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	1640	Cincinnati, OH-KY-IN PMSA (continued)										
		Clermont County, OH	24	21	23	32	35	29	28	31	37	38
		Hamilton County, OH	312	330	384	398	446	395	473	511	515	554
		Warren County, OH	50	53	67	80	66	76	65	72	112	137
	3200	Hamilton-Middletown, OH PMSA	69	94	105	132	138	101	157	146	190	168
		Butler County	69	94	105	132	138	101	157	146	190	168
1660		Clarksville-Hopkinsville, TN-KY MSA	6	9	12	5	3	10	5	4	10	8
		Christian County, KY	3	4	8	2	1	4	3	1	2	2
		Montgomery County, TN	3	5	4	3	2	6	2	3	8	6
1680		Cleveland-Lorain-Elyria, OH PMSA (See Cleveland-Akron, OH CMSA)	605	625	648	615	660	566	540	576	755	786
1692		Cleveland-Akron, OH CMSA	844	901	891	842	916	804	769	856	1053	1070
	0080	Akron, OH PMSA	239	276	243	227	256	238	229	280	298	284
		Portage County	51	61	52	53	53	65	47	67	68	69
		Summit County	188	215	191	174	203	173	182	213	230	215
	1680	Cleveland-Lorain-Elyria, OH PMSA	605	625	648	615	660	566	540	576	755	786
		Ashtabula County	8	3	7	10	8	7	4	5	10	11
		Cuyahoga County	330	370	394	382	397	317	320	331	430	471
		Geauga County	61	37	50	50	53	52	47	56	68	62
		Lake County	96	92	77	70	88	90	75	81	110	107
		Lorain County	62	66	69	64	66	57	49	54	68	61
		Medina County	48	57	51	39	48	43	45	49	69	74
1720		Colorado Springs, CO MSA	72	84	108	103	112	130	165	186	278	270
		El Paso County	72	84	108	103	112	130	165	186	278	270
1740		Columbia, MO MSA	18	20	20	16	13	22	17	32	24	26
		Boone County	18	20	20	16	13	22	17	32	24	26
1760		Columbia, SC MSA	61	60	43	64	54	51	60	37	67	78
		Lexington County	38	35	24	38	36	29	38	22	48	54
		Richland County	23	25	19	26	18	22	22	15	19	24
1800		Columbus, GA-AL MSA	7	12	15	8	6	11	7	9	9	9
		Russell County, AL	1	2	1	1	2	1	2	2	2	0
		Chattahoochee County, GA	0	0	0	0	0	0	0	1	0	0
		Harris County, GA	0	0	0	0	0	1	0	2	0	0
		Muscogee County, GA	6	10	14	7	4	9	5	4	7	9
1840		Columbus, OH MSA	207	262	237	216	265	253	307	278	342	344
		Delaware County	50	53	57	50	62	65	73	64	88	91
		Fairfield County	41	66	47	31	50	42	53	34	48	42
		Franklin County	83	103	90	95	108	99	128	106	147	145
		Licking County	27	33	36	33	39	39	43	65	53	63
		Madison County	3	3	4	4	2	4	2	2	5	1
		Pickaway County	3	4	3	3	4	4	8	7	1	2
1890		Corvallis, OR MSA	37	55	55	39	36	55	61	65	109	101
		Benton County	37	55	55	39	36	55	61	65	109	101
1880		Corpus Christi, TX MSA	21	23	28	26	33	27	24	25	33	25
		Nueces County	10	11	13	14	14	13	12	12	20	11
		San Patricio County	11	12	15	12	19	14	12	13	13	14
1900		Cumberland, MD-WV MSA	2	5	5	1	8	4	2	3	3	1
		Allegany County, MD	1	3	4	1	6	4	1	3	2	1
		Mineral County, WV	1	2	1	0	2	0	1	0	1	0
1920		Dallas, TX PMSA (See Dallas-Fort Worth, TX CMSA)	750	796	849	843	1033	1060	1202	1147	1471	1644

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1922	1920	Dallas-Fort Worth, TX CMSA	896	947	1022	1021	1233	1279	1453	1394	1768	1930
		Dallas, TX PMSA	750	796	849	843	1033	1060	1202	1147	1471	1644
		Collin County	196	217	223	227	300	298	352	348	474	538
		Dallas County	209	211	236	225	271	280	297	274	339	398
		Denton County	196	224	223	228	284	288	339	331	422	457
		Ellis County	14	7	17	12	11	15	20	15	18	18
		Henderson County	3	4	1	2	3	3	3	0	3	4
		Hunt County	17	6	5	7	5	5	5	5	6	4
		Kaufman County	47	52	62	62	60	72	76	69	81	87
		Rockwall County	68	75	82	80	99	99	110	105	128	138
	2800	Fort Worth-Arlington, TX PMSA	146	151	173	178	200	219	251	247	297	286
		Hood County	2	2	1	1	1	4	3	3	8	6
		Johnson County	3	10	5	6	5	10	11	14	15	17
		Parker County	10	11	13	13	14	11	7	10	10	20
		Tarrant County	131	128	154	158	180	194	230	220	264	243
1930		Danbury, CT PMSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
		(See New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA)										
1950		Danville, VA MSA	1	2	6	0	3	1	5	1	6	5
		Pittsylvania County	0	0	4	0	2	0	4	1	5	4
		Danville (city)	1	2	2	0	1	1	1	0	1	1
1960		Davenport-Moline-Rock Island, IA-IL MSA	43	41	45	40	39	43	46	42	50	82
		Henry County, IL	10	9	7	4	5	16	6	5	11	22
		Rock Island County, IL	19	20	18	20	19	11	16	15	18	22
		Scott County, IA	14	12	20	16	15	16	24	22	21	38
2000		Dayton-Springfield, OH MSA	318	313	274	250	204	247	276	274	348	325
		Clark County	15	20	23	6	11	9	9	11	14	16
		Greene County	53	50	43	52	42	54	68	67	74	63
		Miami County	27	34	40	26	24	22	40	31	40	57
		Montgomery County	223	209	168	166	127	162	159	165	220	189
2020		Daytona Beach, FL MSA	30	28	42	40	43	34	24	33	54	41
		Flagler County	2	1	2	1	1	3	0	1	6	3
		Volusia County	28	27	40	39	42	31	24	32	48	38
2030		Decatur, AL MSA	8	8	4	4	9	12	4	6	13	14
		Lawrence County	0	0	0	0	2	1	0	1	0	1
		Morgan County	8	8	4	4	7	11	4	5	13	13
2040		Decatur, IL MSA	15	10	8	10	18	24	14	21	30	15
		Macon County	15	10	8	10	18	24	14	21	30	15
2080		Denver, CO PMSA	346	321	375	378	413	430	439	435	581	572
		(See Denver-Boulder-Greeley, CO CMSA)										
2082	1125	Denver-Boulder-Greeley, CO CMSA	543	506	592	639	726	775	787	826	1113	1143
		Boulder-Longmont, CO PMSA	160	148	187	216	257	290	288	330	446	476
		Boulder County	160	148	187	216	257	290	288	330	446	476
	2080	Denver, CO PMSA	346	321	375	378	413	430	439	435	581	572
		Adams County	48	43	43	46	58	63	60	56	69	83
		Arapahoe County	47	42	53	51	67	67	74	65	93	79
		Denver County	74	57	93	87	69	72	80	68	118	103
		Douglas County	35	43	42	46	60	55	60	63	87	95
		Jefferson County	142	136	144	148	159	173	165	183	214	212
	3060	Greeley, CO PMSA	37	37	30	45	56	55	60	61	86	95
Weld County		37	37	30	45	56	55	60	61	86	95	
2120		Des Moines, IA MSA	48	53	48	46	56	70	67	75	128	145
		Dallas County	5	9	5	6	11	12	13	17	33	39
		Polk County	40	38	42	37	41	54	52	55	91	90
		Warren County	3	6	1	3	4	4	2	3	4	16

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
2160		Detroit, MI PMSA (See Detroit-Ann Arbor-Flint, MI CMSA)	1342	1464	1435	1564	1537	1484	1727	1500	1915	1964
2162	0440	Detroit-Ann Arbor-Flint, MI CMSA	1626	1792	1746	1902	1934	1841	2156	1925	2364	2539
		Ann Arbor, MI PMSA	236	273	226	283	331	299	369	359	388	488
		Lenawee County	18	27	23	39	28	20	22	12	24	30
		Livingston County	30	49	32	42	56	56	89	63	75	81
		Washtenaw County	188	197	171	202	247	223	258	284	289	377
	2160	Detroit, MI PMSA	1342	1464	1435	1564	1537	1484	1727	1500	1915	1964
		Lapeer County	18	22	18	22	22	21	21	36	31	39
		Macomb County	236	271	245	267	255	232	240	201	275	266
		Monroe County	14	21	21	22	35	24	42	27	47	55
		Oakland County	672	730	735	809	757	759	891	772	958	1005
		St. Clair County	41	43	30	26	24	22	34	30	35	33
		Wayne County	361	377	386	418	444	426	499	434	569	566
	2640	Flint, MI PMSA	48	55	85	55	66	58	60	66	61	87
		Genesee County	48	55	85	55	66	58	60	66	61	87
2180		Dothan, AL MSA	2	2	9	1	6	10	7	7	12	11
		Dale County	1	1	7	1	2	3	2	3	7	5
		Houston County	1	1	2	0	4	7	5	4	5	6
2190		Dover, DE MSA	12	13	11	8	13	10	6	13	11	17
		Kent County	12	13	11	8	13	10	6	13	11	17
2200		Dubuque, IA MSA	13	24	11	11	5	9	7	8	13	12
		Dubuque County	13	24	11	11	5	9	7	8	13	12
2240		Duluth-Superior, MN-WI MSA	10	15	15	16	23	16	19	15	19	32
		St. Louis County, MN	10	15	13	15	20	15	17	13	18	26
		Douglas County, WI	0	0	2	1	3	1	2	2	1	6
2281		Dutchess County, NY PMSA (See New York-Northern New Jersey- Long Island, NY-NJ-CT-PA CMSA)	110	123	165	212	234	237	290	266	329	368
2290		Eau Claire, WI MSA	15	20	40	40	35	33	31	29	48	49
		Chippewa County	10	15	31	32	24	22	19	17	30	27
		Eau Claire County	5	5	9	8	11	11	12	12	18	22
2320		El Paso, TX MSA	23	23	21	14	12	20	18	19	25	34
		El Paso County	23	23	21	14	12	20	18	19	25	34
2330		Elkhart-Goshen, IN MSA	37	46	42	58	37	36	48	36	51	58
		Elkhart County	37	46	42	58	37	36	48	36	51	58
2335		Elmira, NY MSA	49	30	41	47	55	26	36	29	36	46
		Chemung County	49	30	41	47	55	26	36	29	36	46
2340		Enid, OK MSA	5	2	3	4	0	0	0	0	1	2
		Garfield County	5	2	3	4	0	0	0	0	1	2
2360		Erie, PA MSA	54	49	56	46	55	50	60	46	51	84
		Erie County	54	49	56	46	55	50	60	46	51	84
2400		Eugene-Springfield, OR MSA	45	38	28	47	60	57	61	50	76	59
		Lane County	45	38	28	47	60	57	61	50	76	59
2440		Evansville-Henderson, IN-KY MSA	77	68	42	49	51	66	58	34	50	64
		Posey County, IN	26	12	15	6	7	13	6	5	6	8
		Vanderburgh County, IN	45	46	16	29	32	42	39	19	29	38
		Warrick County, IN	4	5	3	7	7	8	12	7	13	15
		Henderson County, KY	2	5	8	7	5	3	1	3	2	3

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
2520		Fargo-Moorhead, ND-MN MSA	12	21	22	16	13	25	24	19	28	28
		Clay County, MN	2	4	6	5	1	9	7	5	6	4
		Cass County, ND	10	17	16	11	12	16	17	14	22	24
2560		Fayetteville, NC MSA	6	13	7	7	4	2	7	6	10	9
		Cumberland County	6	13	7	7	4	2	7	6	10	9
2580		Fayetteville-Springdale-Rogers, AR MSA	11	22	36	20	22	31	20	27	34	34
		Benton County	6	8	17	8	11	14	11	11	13	15
		Washington County	5	14	19	12	11	17	9	16	21	19
2600		Fitchburg-Leominster, MA PMSA (See Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
2620		Flagstaff, AZ-UT MSA	8	12	18	15	14	19	6	11	20	28
		Cococino County, AZ	8	12	18	15	14	19	6	11	20	27
		Kane County, UT	0	0	0	0	0	0	0	0	0	1
2640		Flint, MI PMSA (See Detroit-Ann Arbor-Flint, MI CMSA)	48	55	85	55	66	58	60	66	61	87
2650		Florence, AL MSA	26	26	21	18	13	13	15	15	13	15
		Colbert County	3	4	5	4	2	6	9	6	7	3
		Lauderdale County	23	22	16	14	11	7	6	9	6	12
2655		Florence, SC MSA	9	11	10	12	21	17	19	22	19	22
		Florence County	9	11	10	12	21	17	19	22	19	22
2670		Fort Collins-Loveland, CO MSA	61	100	94	120	148	119	148	126	271	280
		Larimer County	61	100	94	120	148	119	148	126	271	280
2680		Fort Lauderdale, FL PMSA (See Miami-Fort Lauderdale, FL CMSA)	247	236	277	274	325	358	347	298	349	339
2700		Fort Myers-Cape Coral, FL MSA	38	40	38	36	35	48	46	45	62	57
		Lee County	38	40	38	36	35	48	46	45	62	57
2710		Fort Pierce-Port St. Lucie, FL MSA	29	37	53	49	45	37	45	36	64	50
		Martin County	15	29	45	32	28	30	33	29	50	35
		St. Lucie County	14	8	8	17	17	7	12	7	14	15
2720		Fort Smith, AR-OK MSA	12	11	15	10	16	8	8	16	16	15
		Crawford County, AR	0	2	1	0	3	0	2	3	2	5
		Sebastian County, AR	9	8	11	10	10	7	5	12	13	8
		Sequoyah County, OK	3	1	3	0	3	1	1	1	1	2
2750		Fort Walton Beach, FL MSA	10	12	9	5	8	5	12	12	15	26
		Okaloosa County	10	12	9	5	8	5	12	12	15	26
2760		Fort Wayne, IN MSA	110	123	103	109	100	88	104	136	140	159
		Adams County	1	5	4	2	2	6	2	10	7	9
		Allen County	77	92	73	79	72	62	79	86	112	124
		De Kalb County	12	14	13	15	7	6	7	13	5	8
		Huntington County	9	6	6	8	7	10	5	13	4	6
		Wells County	4	3	2	3	3	2	3	4	4	4
		Whitley County	7	3	5	2	9	2	8	10	8	8
2800		Fort Worth-Arlington, TX PMSA (See Dallas-Fort Worth, TX CMSA)	146	151	173	178	200	219	251	247	297	286
2840		Fresno, CA MSA	25	31	40	41	46	40	39	41	53	48
		Fresno County	22	26	31	35	40	31	37	31	46	38
		Madera County	3	5	9	6	6	9	2	10	7	10

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
2880		Gadsden, AL MSA	1	3	2	5	3	9	4	3	1	0
		Etowah County	1	3	2	5	3	9	4	3	1	0
2900		Gainesville, FL MSA	60	68	64	63	63	72	74	85	102	95
		Alachua County	60	68	64	63	63	72	74	85	102	95
2920		Galveston-Texas City TX PMSA (See Houston-Galveston-Brazoria, TX CMSA)	32	41	45	51	53	44	42	35	60	58
2960		Gary, IN PMSA (See Chicago-Gary-Kenosha, IN CMSA)	53	42	39	50	47	38	54	44	55	66
2975		Glens Falls, NY MSA	28	25	27	34	23	20	26	23	20	22
		Warren County	23	18	26	25	18	17	21	17	18	15
		Washington County	5	7	1	9	5	3	5	6	2	7
2980		Goldsboro, NC MSA	3	1	4	3	1	5	4	2	3	6
		Wayne County	3	1	4	3	1	5	4	2	3	6
2985		Grand Forks, ND-MN MSA	7	11	7	11	7	9	13	6	11	11
		Polk County, MN	3	3	3	2	2	2	3	2	3	1
		Grand Forks County, ND	4	8	4	9	5	7	10	4	8	10
2995		Grand Junction, CO MSA	11	7	6	5	8	11	12	9	8	11
		Mesa County	11	7	6	5	8	11	12	9	8	11
3000		Grand Rapids-Muskegon-Holland, MI MSA	220	260	267	257	291	260	275	295	368	372
		Allegan County	37	49	49	43	48	41	47	50	66	74
		Kent County	88	96	113	107	125	105	120	119	167	159
		Muskegon County	19	35	19	20	31	30	21	28	24	32
		Ottawa County	76	80	86	87	87	84	87	98	111	107
3040		Great Falls, MT MSA	4	4	4	3	3	2	2	2	4	5
		Cascade County	4	4	4	3	3	2	2	2	4	5
3060		Greeley, CO PMSA (See Denver-Boulder-Greeley, CO CMSA)	37	37	30	45	56	55	60	61	86	95
3080		Green Bay, WI MSA	21	30	44	21	27	31	40	32	34	43
		Brown County	21	30	44	21	27	31	40	32	34	43
3120		Greensboro--Winston-Salem--High Point, NC MSA	170	193	181	169	174	178	200	209	234	224
		Alamance County	8	12	18	11	8	17	15	15	12	18
		Davidson County	9	12	11	11	15	8	11	17	17	11
		Davie County	1	4	7	5	9	6	9	5	6	4
		Forsyth County	82	90	74	67	75	69	65	78	85	70
		Guilford County	57	57	57	59	55	59	73	75	95	95
		Randolph County	4	14	8	12	9	8	13	14	15	18
		Stokes County	7	3	5	2	1	8	10	5	4	5
		Yadkin County	2	1	1	2	2	3	4	0	0	3
3150		Greenville, NC MSA	7	6	8	7	19	10	18	17	23	16
		Pitt County	7	6	8	7	19	10	18	17	23	16
3160		Greenville-Spartanburg-Anderson, SC MSA	170	169	203	179	192	187	216	205	261	255
		Anderson County	25	13	26	23	23	27	23	26	38	38
		Cherokee County	1	2	3	2	2	2	3	2	3	0
		Greenville County	79	74	79	72	75	88	91	83	119	103
		Pickens County	9	20	23	22	31	22	32	31	23	31
		Spartanburg County	56	60	72	60	61	48	67	63	78	83
3180		Hagerstown, MD PMSA (See Washington-Baltimore, DC-MD-VA-WV CMSA)	8	7	12	12	6	5	4	9	13	6

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
3200		Hamilton-Middletown, OH PMSA (See Cincinnati-Hamilton, OH-KY-IN CMSA)	69	94	105	132	138	101	157	146	190	168
3240		Harrisburg-Lebanon-Carlisle, PA MSA	145	170	171	145	119	125	136	106	145	143
		Cumberland County	46	53	51	38	39	37	27	20	50	36
		Dauphin County	86	99	96	89	64	77	85	72	77	89
		Lebanon County	10	14	16	15	15	9	21	11	16	15
		Perry County	3	4	8	3	1	2	3	3	2	3
3280		Hartford, CT MSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Hartford County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Litchfield County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Middlesex County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		New London County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Tolland County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Windham County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3283		Hartford, CT NECMA	389	418	410	459	468	419	374	375	507	485
		Hartford County	252	302	301	341	334	297	262	250	347	322
		Middlesex County	68	60	59	58	73	63	56	72	96	90
		Tolland County	69	56	50	60	61	59	56	53	64	73
3285		Hattiesburg, MS MSA	6	15	10	6	4	6	8	10	8	10
		Forrest County	3	7	4	3	2	3	4	5	4	5
		Lamar County	3	8	6	3	2	3	4	5	4	5
3290		Hickory-Morganton-Lenoir, NC MSA	29	36	41	33	45	38	29	38	46	54
		Alexander County	1	2	5	4	2	0	1	3	3	5
		Burke County	10	13	14	13	15	16	8	12	16	20
		Caldwell County	6	4	5	3	4	6	4	6	4	2
		Catawba County	12	17	17	13	24	16	16	17	23	27
3320		Honolulu, HI MSA	56	43	53	57	44	46	46	51	47	54
		Honolulu County	56	43	53	57	44	46	46	51	47	54
3350		Houma, LA MSA	17	16	16	13	15	12	7	16	18	30
		Lafourche Parish	6	7	6	4	7	2	3	6	5	10
		Terrebonne Parish	11	9	10	9	8	10	4	10	13	20
3360		Houston, TX PMSA (See Houston-Galveston-Brazoria, TX CMSA)	1009	1126	1165	1110	1234	1190	1123	1152	1445	1567
3362		Houston-Galveston-Brazoria, TX CMSA	1187	1297	1333	1284	1408	1331	1248	1265	1621	1714
	1145	Brazoria, TX PMSA	146	130	123	123	121	97	83	78	116	89
		Brazoria County	146	130	123	123	121	97	83	78	116	89
	2920	Galveston-Texas City TX PMSA	32	41	45	51	53	44	42	35	60	58
		Galveston County	32	41	45	51	53	44	42	35	60	58
	3360	Houston, TX PMSA	1009	1126	1165	1110	1234	1190	1123	1152	1445	1567
		Chambers County	5	11	9	12	11	11	6	6	11	7
		Fort Bend County	328	353	363	354	409	377	352	309	359	388
		Harris County	383	438	441	428	452	457	435	534	695	730
		Liberty County	0	3	4	2	2	1	0	5	1	3
		Montgomery County	281	303	337	302	345	327	316	285	349	367
		Waller County	12	18	11	12	15	17	14	13	30	72
3400		Huntington-Ashland, WV-KY-OH MSA	31	25	24	23	26	16	15	11	19	25
		Boyd County, KY	7	6	2	4	5	3	4	4	4	6
		Carter County, KY	0	0	1	0	0	0	1	1	1	1
		Greenup County, KY	1	3	6	4	2	1	2	0	3	5
		Lawrence County, OH	2	2	1	2	4	7	3	2	3	5
		Cabell County, WV	13	8	8	9	9	3	2	2	5	5
		Wayne County, WV	8	6	6	4	6	2	3	2	3	3

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
3440		Huntsville, AL MSA	110	93	75	81	77	75	84	75	110	107
		Limestone County	55	45	39	40	38	39	40	32	52	54
		Madison County	55	48	36	41	39	36	44	43	58	53
3480		Indianapolis, IN MSA	318	327	325	334	375	432	542	538	556	544
		Boone County	16	14	17	7	18	19	18	16	21	28
		Hamilton County	43	51	48	58	68	92	133	128	138	123
		Hancock County	12	8	7	6	8	7	15	18	12	19
		Hendricks County	13	16	8	9	26	20	7	21	21	22
		Johnson County	14	17	19	17	23	32	40	31	44	45
		Madison County	25	21	20	21	22	21	17	19	15	11
		Marion County	182	179	196	199	195	217	295	292	286	284
		Morgan County	7	15	6	11	8	17	11	7	9	9
Shelby County	6	6	4	6	7	7	6	6	10	3		
3500		Iowa City, IA MSA	21	15	29	25	16	33	28	24	47	51
		Johnson County	21	15	29	25	16	33	28	24	47	51
3520		Jackson, MI MSA	31	36	46	36	37	27	28	31	40	29
		Jackson County	31	36	46	36	37	27	28	31	40	29
3560		Jackson, MS MSA	18	19	14	12	25	15	16	21	47	35
		Hinds County	7	8	7	4	8	4	4	8	15	13
		Madison County	4	5	3	1	3	3	3	5	11	8
		Rankin County	7	6	4	7	14	8	9	8	21	14
3580		Jackson, TN MSA	4	8	5	10	10	7	9	5	12	21
		Chester County	0	0	0	1	0	0	0	0	1	0
		Madison County	4	8	5	9	10	7	9	5	11	21
3600		Jacksonville, FL MSA	60	59	83	79	70	78	99	113	141	131
		Clay County	4	6	5	5	3	6	9	20	13	12
		Duval County	51	46	66	58	48	53	76	75	104	85
		Nassau County	4	2	2	5	7	5	3	3	6	6
		St. Johns County	1	5	10	11	12	14	11	15	18	28
3605		Jacksonville, NC MSA	0	2	1	2	3	5	4	0	4	1
		Onslow County	0	2	1	2	3	5	4	0	4	1
3610		Jamestown, NY MSA	9	12	4	9	9	11	10	5	22	12
		Chautauqua County	9	12	4	9	9	11	10	5	22	12
3620		Janesville-Beloit, WI MSA	31	31	26	27	28	23	32	22	38	39
		Rock County	31	31	26	27	28	23	32	22	38	39
3640		Jersey City, NJ PMSA (See New York-Northern New Jersey- Long Island, NY-NJ-CT-PA CMSA)	45	47	41	34	41	30	45	45	79	72
3660		Johnson City-Kingsport-Bristol, TN-VA MSA	118	98	109	134	126	110	102	110	120	145
		Carter County, TN	5	1	4	4	3	6	4	6	8	8
		Hawkins County, TN	47	40	33	40	43	42	32	38	38	48
		Sullivan County, TN	53	47	48	60	53	46	51	49	47	57
		Unicoi County, TN	1	0	2	1	0	0	2	0	2	0
		Washington County, TN	6	5	8	14	12	6	5	9	14	15
		Scott County, VA	2	1	1	0	1	0	0	0	0	1
		Washington County, VA	2	2	10	11	8	7	3	6	9	13
Bristol (city), VA	2	2	3	4	6	3	5	2	2	3		
3680		Johnstown, PA MSA	5	10	7	9	16	13	12	15	22	21
		Cambria County	3	10	6	4	11	9	6	10	15	12
		Somerset County	2	0	1	5	5	4	6	5	7	9

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
3700		Jonesboro, AR MSA	3	3	7	3	3	2	6	8	3	13
		Craighead County	3	3	7	3	3	2	6	8	3	13
3710		Joplin, MO MSA	18	15	14	12	13	11	22	22	18	18
		Jasper County	14	10	11	7	8	7	14	17	13	12
		Newton County	4	5	3	5	5	4	8	5	5	6
3720		Kalamazoo-Battle Creek, MI MSA	105	95	122	131	116	109	126	89	120	143
		Calhoun County	25	20	28	31	25	22	17	14	16	24
		Kalamazoo County	72	70	90	96	79	81	95	65	94	110
		Van Buren County	8	5	4	4	12	6	14	10	10	9
3740		Kankakee, IL PMSA	5	7	9	10	8	11	5	9	11	10
		(See Chicago-Gary-Kenosha, IL-IN-WI CMSA)										
3760		Kansas City, MO-KS MSA	156	169	181	153	163	181	195	176	240	277
		Johnson County, KS	68	76	87	69	81	87	92	96	115	152
		Leavenworth County, KS	1	3	4	1	3	2	1	0	1	3
		Miami County, KS	2	3	0	5	2	4	4	1	3	3
		Wyandotte County, KS	9	4	6	2	4	5	11	7	8	13
		Cass County, MO	18	16	17	16	16	18	20	14	23	18
		Clay County, MO	16	25	18	18	13	20	20	16	25	26
		Clinton County, MO	1	0	0	1	0	1	1	0	1	2
		Jackson County, MO	29	26	31	28	28	28	31	29	48	35
		Lafayette County, MO	1	1	5	2	2	1	1	0	2	4
		Platte County, MO	10	15	13	11	13	14	14	12	14	19
Ray County, MO	1	0	0	0	1	1	0	1	0	2		
3800		Kenosha, WI PMSA	27	21	14	43	20	43	30	29	31	46
		(See Chicago-Gary-Kenosha, IL-IN-WI CMSA)										
3810		Killeen-Temple, TX MSA	3	7	7	9	11	5	9	9	22	24
		Bell County	3	6	7	8	10	4	7	8	20	23
		Coryell County	0	1	0	1	1	1	2	1	2	1
3840		Knoxville, TN MSA	111	106	86	102	108	127	138	144	182	198
		Anderson County	12	14	16	21	24	19	19	18	21	22
		Blount County	11	13	4	6	8	12	11	18	15	19
		Knox County	81	69	57	65	68	81	93	82	127	141
		Loudon County	3	9	4	3	6	5	7	13	12	10
		Sevier County	4	1	5	6	1	10	8	12	7	6
		Union County	0	0	0	1	1	0	0	1	0	0
3850		Kokomo, IN MSA	28	34	39	24	34	52	68	48	56	57
		Howard County	27	31	32	22	31	50	63	46	46	51
		Tipton County	1	3	7	2	3	2	5	2	10	6
3870		La Crosse, WI-MN MSA	11	23	13	23	14	14	26	22	25	29
		Houston County, MN	3	6	1	4	3	2	3	5	7	6
		La Crosse County, WI	8	17	12	19	11	12	23	17	18	23
3880		Lafayette, LA MSA	40	42	33	34	32	38	45	37	74	60
		Acadia Parish	2	3	2	3	3	1	4	2	6	4
		Lafayette Parish	31	33	26	27	23	31	31	26	56	42
		St. Landry Parish	2	1	2	2	3	2	2	2	3	4
		St. Martin Parish	5	5	3	2	3	4	8	7	9	10
3920		Lafayette, IN MSA	50	46	34	42	59	60	59	84	65	74
		Clinton County	0	3	0	1	1	1	4	3	2	4
		Tippecanoe County	50	43	34	41	58	59	55	81	63	70
3960		Lake Charles, LA MSA	12	13	13	11	15	12	10	4	14	18
		Calcasieu Parish	12	13	13	11	15	12	10	4	14	18

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
3980		Lakeland-Winter Haven, FL MSA	24	34	27	28	35	26	28	36	38	33
		Polk County	24	34	27	28	35	26	28	36	38	33
4000		Lancaster, PA MSA	114	116	114	86	93	93	115	82	121	153
		Lancaster County	114	116	114	86	93	93	115	82	121	153
4040		Lansing-East Lansing, MI MSA	44	48	75	56	51	62	84	70	116	93
		Clinton County	2	1	3	8	5	5	7	9	13	7
		Eaton County	14	18	15	8	9	13	16	9	13	11
		Ingham County	28	29	57	40	37	44	61	52	90	75
4080		Laredo, TX MSA	1	2	1	1	4	1	1	0	3	0
		Webb County	1	2	1	1	4	1	1	0	3	0
4100		Las Cruces, NM MSA	9	16	12	19	15	3	9	12	15	14
		Dona Ana County	9	16	12	19	15	3	9	12	15	14
4120		Las Vegas, NV-AZ MSA	49	75	75	70	87	82	107	101	141	165
		Mohave County, AZ	5	8	5	4	6	5	5	10	9	7
		Clark County, NV	44	67	68	64	79	73	102	90	130	156
		Nye County, NV	0	0	2	2	2	4	0	1	2	2
4150		Lawrence, KS MSA	19	13	18	23	16	10	17	14	23	26
		Douglas County	19	13	18	23	16	10	17	14	23	26
4160		Lawrence, MA-NH PMSA (See Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4200		Lawton, OK MSA	2	2	3	0	10	5	3	7	4	6
		Comanche County	2	2	3	0	10	5	3	7	4	6
4240		Lewiston-Auburn, ME MSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Androscoggin County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4243		Lewiston-Auburn, ME NECMA	9	5	8	7	3	4	5	3	6	2
		Androscoggin County	9	5	8	7	3	4	5	3	6	2
4280		Lexington, KY MSA	59	72	72	68	80	68	99	97	129	175
		Bourbon County	0	1	2	0	1	1	1	1	3	0
		Clark County	4	3	0	7	3	0	3	2	7	4
		Fayette County	38	49	54	45	50	45	75	77	94	136
		Jessamine County	6	6	5	7	4	7	6	7	5	14
		Madison County	3	5	1	2	5	4	4	4	7	3
		Scott County	4	0	3	2	6	4	4	3	7	8
		Woodford County	4	8	7	5	11	7	6	3	6	10
4320		Lima, OH MSA	32	29	15	23	11	9	5	15	9	14
		Allen County	18	14	8	12	3	4	0	8	4	5
		Auglaize County	14	15	7	11	8	5	5	7	5	9
4360		Lincoln, NE MSA	37	41	34	47	48	38	44	42	69	62
		Lancaster County	37	41	34	47	48	38	44	42	69	62
4400		Little Rock-North Little Rock, AR MSA	40	28	31	30	36	22	34	30	46	77
		Faulkner County	3	1	5	3	4	4	6	4	9	13
		Lonoke County	1	0	0	6	4	0	3	1	1	1
		Pulaski County	31	25	23	18	23	15	21	25	33	61
		Saline County	5	2	3	3	5	3	4	0	3	2

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
4420		Longview-Marshall, TX MSA	26	27	24	23	24	28	26	14	25	35
		Gregg County	12	12	12	9	9	12	8	4	10	14
		Harrison County	13	13	10	10	14	15	16	8	14	19
		Upshur County	1	2	2	4	1	1	2	2	1	2
4472		Los Angeles-Riverside-Orange County, CA CMSA	2906	3235	3172	3158	3495	3291	3369	3489	4493	4500
	4480	Los Angeles-Long Beach, CA PMSA,	1586	1804	1649	1646	1876	1710	1777	1807	2335	2348
		Los Angeles County	1586	1804	1649	1646	1876	1710	1777	1807	2335	2348
	5945	Orange County, CA PMSA	891	965	1032	1017	1113	1055	1084	1134	1484	1473
		Orange County	891	965	1032	1017	1113	1055	1084	1134	1484	1473
	6780	Riverside-San Bernardino, CA PMSA	195	238	255	270	226	266	258	275	353	351
		Riverside County	87	107	110	111	110	117	113	130	185	170
		San Bernardino County	108	131	145	159	116	149	145	145	168	181
	8735	Ventura, CA PMSA	234	228	236	225	280	260	250	273	321	328
		Ventura County	234	228	236	225	280	260	250	273	321	328
4480		Los Angeles-Long Beach, CA PMSA (See Los Angeles-Riverside-Orange County, CA CMSA)	1586	1804	1649	1646	1876	1710	1777	1807	2335	2348
4520		Louisville, KY-IN MSA	142	135	99	126	106	102	113	112	121	162
		Clark County, IN	9	7	7	8	7	7	10	6	8	10
		Floyd County, IN	6	3	8	7	9	2	5	8	10	15
		Harrison County, IN	1	0	1	1	5	5	0	1	1	1
		Scott County, IN	0	2	1	0	0	1	0	0	0	5
		Bullitt County, KY	2	3	4	1	5	1	4	1	6	5
		Jefferson County, KY	122	115	77	107	77	79	90	90	89	119
		Oldham County, KY	2	5	1	2	3	7	4	6	7	7
4560		Lowell, MA-NH PMSA (See Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4600		Lubbock, TX MSA	21	24	14	15	21	24	25	25	24	29
		Lubbock County	21	24	14	15	21	24	25	25	24	29
4640		Lynchburg, VA MSA	43	45	73	50	40	48	38	47	61	56
		Amherst County	0	3	0	0	1	2	3	1	2	2
		Bedford County	10	18	21	15	15	12	9	13	26	26
		Campbell County	1	3	4	3	2	3	1	3	4	2
		Bedford (city)	0	1	2	1	1	4	2	1	2	4
		Lynchburg (city)	32	20	46	31	21	27	23	29	27	22
4680		Macon, GA MSA	17	17	27	19	22	21	22	16	23	27
		Bibb County	7	8	10	6	9	8	7	6	7	9
		Houston County	1	2	4	5	2	2	3	3	7	4
		Jones County	8	6	11	6	10	8	7	7	7	9
		Peach County	1	1	2	2	1	3	5	0	2	5
		Twiggs County	0	0	0	0	0	0	0	0	0	0
4720		Madison, WI MSA	91	139	143	144	141	164	202	226	258	261
		Dane County	91	139	143	144	141	164	202	226	258	261
4760		Manchester, NH PMSA (See Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4800		Mansfield, OH MSA	15	16	10	17	30	13	19	12	17	17
		Crawford County	3	1	1	2	4	1	3	1	4	8
		Richland County	12	15	9	15	26	12	16	11	13	9
4880		McAllen-Edinburg-Mission, TX MSA	0	2	2	7	5	3	3	5	5	5
		Hidalgo County	0	2	2	7	5	3	3	5	5	5
4890		Medford-Ashland, OR MSA	11	21	24	21	27	30	17	13	28	14
		Jackson County	11	21	24	21	27	30	17	13	28	14

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
4900		Melbourne-Titusville-Palm Bay, FL MSA	100	103	95	106	92	92	132	147	143	178
		Brevard County	100	103	95	106	92	92	132	147	143	178
4920		Memphis, TN-AR-MS MSA	89	79	103	85	104	102	142	157	145	168
		Crittenden County, AR	0	1	2	0	0	1	1	1	2	0
		DeSoto County, MS	7	0	4	2	4	3	9	6	5	3
		Fayette County, TN	1	0	1	1	1	1	0	0	0	5
		Shelby County, TN	81	77	95	81	97	93	131	149	137	158
		Tipton County, TN	0	1	1	1	2	4	1	1	1	2
4940		Merced, CA MSA	2	6	9	6	4	5	4	9	8	12
		Merced County	2	6	9	6	4	5	4	9	8	12
4992		Miami-Fort Lauderdale, FL CMSA	412	426	492	463	506	554	534	509	580	601
	2680	Fort Lauderdale, FL PMSA	247	236	277	274	325	358	347	298	349	339
		Broward County	247	236	277	274	325	358	347	298	349	339
	5000	Miami, FL PMSA	165	190	215	189	181	196	187	211	231	262
		Miami-Dade County	165	190	215	189	181	196	187	211	231	262
5000		Miami, FL PMSA	165	190	215	189	181	196	187	211	231	262
		(See Miami-Fort Lauderdale, FL CMSA)										
5015		Middlesex-Somerset-Hunterdon, NJ PMSA	702	765	733	792	752	689	827	913	1027	1091
		(See New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA)										
5080		Milwaukee-Waukesha, WI PMSA	411	382	385	413	462	451	446	387	502	530
		(See Milwaukee-Racine, WI CMSA)										
5082		Milwaukee-Racine, WI CMSA	472	435	449	451	517	500	496	451	573	624
	5080	Milwaukee-Waukesha, WI PMSA	411	382	385	413	462	451	446	387	502	530
		Milwaukee County	126	97	111	124	104	126	146	104	127	142
		Ozaukee County	51	36	47	41	72	55	45	45	63	46
		Washington County	66	48	49	57	66	61	45	44	62	58
		Waukesha County	168	201	178	191	220	209	210	194	250	284
	6600	Racine, WI PMSA	61	53	64	38	55	49	50	64	71	94
		Racine County	61	53	64	38	55	49	50	64	71	94
5120		Minneapolis-St. Paul, MN-WI MSA	1154	1167	1223	1358	1513	1445	1539	1578	2051	2181
		Anoka County, MN	61	68	64	84	112	85	84	104	118	138
		Carver County, MN	15	12	13	25	26	18	21	26	41	41
		Chisago County, MN	5	7	6	5	10	7	7	7	16	15
		Dakota County, MN	99	93	83	124	117	139	141	111	180	170
		Hennepin County, MN	492	471	494	526	569	487	570	594	771	863
		Isanti County, MN	6	5	6	3	2	3	3	2	3	3
		Ramsey County, MN	288	304	312	298	331	326	319	310	446	426
		Scott County, MN	16	28	31	21	27	30	31	30	35	56
		Sherburne County, MN	5	7	16	15	7	12	12	6	27	20
		Washington County, MN	117	121	144	183	241	272	275	306	332	362
		Wright County, MN	15	22	19	21	22	11	9	15	30	28
		Pierce County, WI	7	6	4	9	12	14	13	12	6	14
		St. Croix County, WI	28	23	31	44	37	41	54	55	46	45
5140		Missoula, MT MSA	7	10	8	11	14	14	11	13	16	12
		Missoula County	7	10	8	11	14	14	11	13	16	12
5160		Mobile, AL MSA	34	43	28	38	31	29	29	47	56	75
		Baldwin County	5	10	4	10	12	6	5	11	14	14
		Mobile County	29	33	24	28	19	23	24	36	42	61
5170		Modesto, CA MSA	28	31	31	27	37	36	30	26	35	40
		Stanislaus County	28	31	31	27	37	36	30	26	35	40

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
5190		Monmouth-Ocean, NJ PMSA (See New York-Northern New Jersey- Long Island, NY-NJ-CT-PA CMSA)	298	333	351	358	374	401	444	420	497	537
5200		Monroe, LA MSA Ouachita Parish	16	14	15	11	14	6	15	8	9	6
5240		Montgomery, AL MSA Autauga County Elmore County Montgomery County	15	10	19	15	13	17	17	14	17	21
5280		Muncie, IN MSA Delaware County	7	8	4	11	12	16	14	4	10	2
5330		Myrtle Beach, SC MSA Horry County	11	5	6	8	9	9	14	9	15	14
5345		Naples, FL MSA Collier County	22	22	29	24	26	37	30	36	35	37
5350		Nashua, NH PMSA (See Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5360		Nashville, TN MSA Cheatham County Davidson County Dickson County Robertson County Rutherford County Sumner County Williamson County Wilson County	78	96	92	89	106	133	99	111	129	140
5380		Nassau-Suffolk, NY PMSA (See New York-Northern New Jersey- Long Island, NY-NJ-CT-PA CMSA)	575	559	518	460	560	572	658	581	768	753
5400		New Bedford, MA PMSA (See Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5480		New Haven-Meriden, CT PMSA (See New York-Northern New Jersey- Long Island, NY-NJ-CT-PA CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5483		New Haven-Bridgeport-Stamford-Danbury- Waterbury, CT NECMA Fairfield County New Haven County	770	786	841	884	926	908	852	820	1024	1033
5520		New London-Norwich, CT-RI MSA Middlesex County, CT (part) New London County, CT (part) Windham County, CT (part) Washington County, RI (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5523		New London-Norwich, CT NECMA New London County	90	104	95	106	100	118	109	118	128	134
5560		New Orleans, LA MSA Jefferson Parish Orleans Parish Plaquemines Parish St. Bernard Parish St. Charles Parish (continued)	119	115	146	127	102	95	135	106	131	136

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
5560		New Orleans, LA MSA (continued)										
		St. James Parish	0	0	0	0	0	0	0	0	2	1
		St. John the Baptist Parish	2	4	3	7	1	1	5	6	1	0
		St. Tammany Parish	19	15	30	18	10	18	19	14	26	24
5600		New York, NY PMSA (See New York-Northern New Jersey- Long Island, NY-NJ-CT-PA CMSA)	1084	1182	1073	1133	1193	1132	1270	1228	1749	1704
5602		New York-Northern New Jersey- Long Island, NY-NJ-CT-PA CMSA	5341	5567	5412	5521	5789	5586	6163	6025	7644	7841
	0875	Bergen-Passaic, NJ PMSA	333	357	355	348	362	359	406	369	481	502
		Bergen County	241	271	260	272	290	289	306	283	375	394
		Passaic County	92	86	95	76	72	70	100	86	106	108
	See note below	Bridgeport, CT PMSA; Danbury, CT PMSA; New Haven-Meriden, CT PMSA; Stamford-Norwalk, CT PMSA; and Waterbury, CT PMSA	930	926	990	1023	1097	1053	1010	969	1241	1241
		Fairfield County	495	489	528	560	598	562	555	494	638	647
		Litchfield County (part)	92	80	90	81	98	82	102	77	121	118
		Middlesex County (part)	68	60	59	58	73	63	56	72	96	90
		New Haven County	275	297	313	324	328	346	297	326	386	386
	2281	Dutchess County, NY PMSA	110	123	165	212	234	237	290	266	329	368
		Dutchess County	110	123	165	212	234	237	290	266	329	368
	3640	Jersey City, NJ PMSA	45	47	41	34	41	30	45	45	79	72
		Hudson County	45	47	41	34	41	30	45	45	79	72
	5015	Middlesex-Somerset-Hunterdon, NJ PMSA	702	765	733	792	752	689	827	913	1027	1091
		Hunterdon County	145	147	135	150	153	152	160	225	203	235
		Middlesex County	234	302	305	316	294	273	296	309	389	408
		Somerset County	323	316	293	326	305	264	371	379	435	448
	5190	Monmouth-Ocean, NJ PMSA	298	333	351	358	374	401	444	420	497	537
		Monmouth County	252	288	299	310	313	354	398	367	451	486
		Ocean County	46	45	52	48	61	47	46	53	46	51
	5380	Nassau-Suffolk, NY PMSA	575	559	518	460	560	572	658	581	768	753
		Nassau County	310	302	251	214	249	261	301	260	351	314
		Suffolk County	265	257	267	246	311	311	357	321	417	439
	5600	New York, NY PMSA	1084	1182	1073	1133	1193	1132	1270	1228	1749	1704
		Bronx County	47	43	34	37	38	37	36	44	59	49
		Kings County	113	110	81	99	96	82	101	107	161	123
		New York County	295	340	306	334	357	328	380	378	533	521
		Putnam County	44	48	59	57	49	52	53	41	56	74
		Queens County	106	112	116	97	92	109	89	109	146	162
		Richmond County	25	38	26	27	22	29	26	39	38	37
		Rockland County	109	121	85	98	116	91	118	101	164	124
		Westchester County	345	370	366	384	423	404	467	409	592	614
	5640	Newark, NJ PMSA	837	857	795	762	793	747	793	851	1014	1136
		Essex County	169	165	138	143	151	179	140	179	203	228
		Morris County	352	365	364	308	331	282	322	319	387	462
		Sussex County	43	40	40	37	48	35	43	45	59	49
		Union County	245	256	222	249	244	227	253	279	330	349
		Warren County	28	31	31	25	19	24	35	29	35	48
	5660	Newburgh, NY-PA PMSA	49	37	46	58	47	66	75	62	98	92
		Orange County, NY	48	37	42	57	44	63	70	57	83	80
		Pike County, PA	1	0	4	1	3	3	5	5	15	12
	8480	Trenton, NJ PMSA	378	381	345	341	336	300	345	321	361	345
		Mercer County	378	381	345	341	336	300	345	321	361	345
		<i>(Note: separate patent counts are not available for the Bridgeport, Danbury, New Haven-Meriden, Stamford-Norwalk, and Waterbury PMSAs in Connecticut. However, all of Fairfield and New Haven counties are within these PMSAs. Patent counts for Litchfield and Middlesex counties are county totals, but only parts of these counties are within the New York-Northern New Jersey, Long Island, NY-NJ-CT-PA CMSA.)</i>										

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
5640		Newark, NJ PMSA (See New York-Northern New Jersey- Long Island, NY-NJ-CT-PA CMSA)	837	857	795	762	793	747	793	851	1014	1136
5660		Newburgh, NY-PA PMSA (See New York-Northern New Jersey- Long Island, NY-NJ-CT-PA CMSA)	49	37	46	58	47	66	75	62	98	92
5720		Norfolk-Virginia Beach-Newport News, VA-NC MSA	114	122	144	156	129	113	126	108	143	132
		Currituck County, NC	1	0	0	0	0	0	0	0	0	1
		Gloucester County, VA	2	4	9	3	6	1	1	2	6	4
		Isle of Wight County, VA	1	0	0	0	2	1	5	3	6	5
		James City County, VA	0	1	0	0	0	0	0	0	0	0
		Mathews County, VA	1	0	0	1	3	0	1	1	0	2
		York County, VA	18	16	23	33	16	17	23	24	19	17
		Chesapeake (city), VA	9	5	7	4	6	6	7	7	7	11
		Hampton (city), VA	8	14	9	12	13	10	8	9	12	11
		Newport News (city), VA	24	34	27	34	24	24	22	10	24	22
		Norfolk (city), VA	8	11	10	14	11	10	21	8	21	10
		Poquoson (city), VA	7	1	9	8	8	6	3	4	5	0
		Portsmouth (city), VA	2	0	2	3	3	2	0	2	3	1
		Suffolk (city), VA	0	2	4	5	0	2	0	2	3	3
		Virginia Beach (city), VA	23	21	24	23	23	22	18	22	20	35
		Williamsburg (city), VA	10	13	20	16	14	12	17	14	17	10
5775		Oakland, CA PMSA (See San Francisco-Oakland-San Jose, CA CMSA)	629	634	717	732	803	821	916	1012	1462	1589
5790		Ocala, FL MSA	15	18	25	14	24	19	19	11	27	18
		Marion County	15	18	25	14	24	19	19	11	27	18
5800		Odessa-Midland, TX MSA	15	16	12	18	28	19	21	23	21	18
		Ector County	5	6	2	5	7	6	7	8	7	6
		Midland County	10	10	10	13	21	13	14	15	14	12
5880		Oklahoma City, OK MSA	102	104	120	122	104	114	120	133	130	146
		Canadian County	19	26	25	20	15	16	18	22	25	29
		Cleveland County	30	18	31	31	33	34	34	32	29	31
		Logan County	0	0	0	2	0	3	2	1	4	1
		McClain County	11	12	13	13	8	14	12	14	14	12
		Oklahoma County	29	33	36	36	34	30	40	45	42	55
		Pottawatomie County	13	15	15	20	14	17	14	19	16	18
5910		Olympia, WA PMSA (See Seattle-Tacoma-Bremerton, WA CMSA)	5	8	5	3	8	11	9	10	15	12
5920		Omaha, NE-IA MSA	55	74	61	67	57	68	69	79	84	68
		Pottawattamie County, IA	6	13	6	1	2	7	6	5	3	7
		Cass County, NE	0	0	0	0	2	1	1	2	1	2
		Douglas County, NE	44	56	52	57	45	55	56	66	75	55
		Sarpy County, NE	1	3	2	8	8	4	6	6	4	4
		Washington County, NE	4	2	1	1	0	1	0	0	1	0
5945		Orange County, CA PMSA (See Los Angeles-Riverside-Orange County, CA CMSA)	891	965	1032	1017	1113	1055	1084	1134	1484	1473
5960		Orlando, FL MSA	197	181	187	167	152	161	169	165	229	200
		Lake County	11	12	10	10	13	10	11	14	20	18
		Orange County	96	105	84	77	84	89	95	94	139	111
		Osceola County	7	7	6	11	10	6	4	6	7	9
		Seminole County	83	57	87	69	45	56	59	51	63	62
5990		Owensboro, KY MSA	4	4	4	1	8	4	4	3	2	6
		Daviess County	4	4	4	1	8	4	4	3	2	6

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
6015		Panama City, FL MSA	31	19	11	10	15	13	17	27	35	32
		Bay County	31	19	11	10	15	13	17	27	35	32
6020		Parkersburg-Marietta, WV-OH MSA	30	43	32	24	30	34	24	37	45	27
		Washington County, OH	7	6	14	6	11	11	5	8	12	10
		Wood County, WV	23	37	18	18	19	23	19	29	33	17
6080		Pensacola, FL MSA	30	30	18	32	22	27	29	34	33	41
		Escambia County	25	23	11	22	16	20	22	23	29	35
		Santa Rosa County	5	7	7	10	6	7	7	11	4	6
6120		Peoria-Pekin, IL MSA	65	81	73	105	104	131	172	159	177	186
		Peoria County	39	53	54	82	77	100	114	107	116	125
		Tazewell County	23	25	10	12	21	19	43	39	43	35
		Woodford County	3	3	9	11	6	12	15	13	18	26
6160		Philadelphia, PA-NJ PMSA (See Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA)	1213	1254	1252	1370	1426	1352	1513	1509	1758	1849
6162		Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA	1637	1796	1797	1911	1895	1811	2019	1905	2208	2328
	0560	Atlantic-Cape May, NJ PMSA	17	26	19	29	29	28	31	22	31	50
		Atlantic County	8	8	9	13	14	14	15	12	17	20
		Cape May County	9	18	10	16	15	14	16	10	14	30
	6160	Philadelphia, PA-NJ PMSA	1213	1254	1252	1370	1426	1352	1513	1509	1758	1849
		Burlington County, NJ	54	90	69	89	100	85	80	107	116	103
		Camden County, NJ	96	79	90	90	73	55	80	72	101	90
		Gloucester County, NJ	61	82	59	56	56	52	28	44	42	36
		Salem County, NJ	7	6	7	7	6	5	10	14	16	18
		Bucks County, PA	257	230	260	299	348	286	298	253	310	298
		Chester County, PA	181	192	224	235	250	259	300	285	318	334
		Delaware County, PA	149	164	127	145	153	143	198	178	215	249
		Montgomery County, PA	312	333	309	350	361	374	423	444	496	598
		Philadelphia County, PA	96	78	107	99	79	93	96	112	144	123
	8760	Vineland-Millville-Bridgeton, NJ PMSA	4	9	6	7	8	5	5	10	6	10
		Cumberland County	4	9	6	7	8	5	5	10	6	10
	9160	Wilmington-Newark, DE-MD PMSA	403	507	520	505	432	426	470	364	413	419
		New Castle County, DE	389	487	492	480	412	403	436	334	376	387
		Cecil County, MD	14	20	28	25	20	23	34	30	37	32
6200		Phoenix-Mesa, AZ MSA	493	625	632	626	701	753	831	799	1182	1152
		Maricopa County	484	613	625	616	689	742	816	794	1169	1139
		Pinal County	9	12	7	10	12	11	15	5	13	13
6240		Pine Bluff, AR MSA	2	5	3	1	1	1	1	4	1	1
		Jefferson County	2	5	3	1	1	1	1	4	1	1
6280		Pittsburgh, PA MSA	741	715	658	655	698	573	634	567	736	809
		Allegheny County	503	480	438	427	459	357	405	362	485	549
		Beaver County	21	21	16	23	23	24	12	17	11	40
		Butler County	38	27	19	23	32	32	39	32	33	39
		Fayette County	5	7	9	5	12	11	7	11	14	15
		Washington County	25	25	32	31	26	28	31	25	35	29
		Westmoreland County	149	155	144	146	146	121	140	120	158	137
6320		Pittsfield, MA MSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Berkshire County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6323		Pittsfield, MA NECMA	35	49	34	34	23	12	28	28	30	27
		Berkshire County	35	49	34	34	23	12	28	28	30	27
6340		Pocatello, ID MSA	2	3	3	3	4	2	2	4	3	10
		Bannock	2	3	3	3	4	2	2	4	3	10

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
6400		Portland, ME MSA Cumberland County, (part) York County, (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6403		Portland, ME NECMA Cumberland County	35	28	35	48	42	31	33	40	45	38
6440		Portland-Vancouver, OR-WA PMSA (See Portland-Salem, OR-WA CMSA)	384	380	341	424	394	532	574	641	948	930
6442	6440	Portland-Salem, OR-WA CMSA Portland-Vancouver, OR-WA PMSA Clackamas County, OR Columbia County, OR Multnomah County, OR Washington County, OR Yamhill County, OR Clark County, WA	406	407	365	445	414	554	598	659	985	964
	7080	Salem, OR PMSA Marion County Polk County	384	380	341	424	394	532	574	641	948	930
6450		Portsmouth-Rochester, NH-ME PMSA (See Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6480		Providence-Fall River-Warwick, RI-MA-MSA Bristol County, MA (part) Bristol County, RI Kent County, RI Newport County, RI (part) Providence County, RI Washington County, RI (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6483		Providence-Warwick-Pawtucket, RI NECMA Bristol County Kent County Providence County Washington County	15	22	17	24	20	30	16	33	27	22
6520		Provo-Orem, UT MSA Utah County	36	48	51	49	33	37	43	44	45	40
6560		Pueblo, CO MSA Pueblo County	62	75	68	70	82	57	72	68	95	111
6580		Punta Gorda, FL MSA Charlotte County	129	173	171	183	173	162	177	181	221	221
6600		Racine, WI PMSA (See Milwaukee-Racine, WI CMSA)	15	22	17	24	20	30	16	33	27	22
6640		Raleigh-Durham-Chapel Hill, NC MSA Chatham County Durham County Franklin County Johnston County Orange County Wake County	47	46	58	51	47	53	52	69	92	122
6660		Rapid City, SD MSA Pennington County	47	46	58	51	47	53	52	69	92	122
6680		Reading, PA MSA Berks County	3	11	5	8	7	6	6	9	6	10
			3	11	5	8	7	6	6	9	6	10
			12	14	18	14	13	5	25	13	22	19
			12	14	18	14	13	5	25	13	22	19
			61	53	64	38	55	49	50	64	71	94
			233	294	303	344	399	399	493	527	828	939
			4	4	4	2	4	3	9	8	22	21
			39	45	52	63	68	63	82	98	139	148
			1	1	2	1	1	2	2	1	3	1
			1	3	2	1	4	2	7	10	10	15
			39	49	56	71	77	70	90	106	146	152
			149	192	187	206	245	259	303	304	508	602
			6	1	8	3	10	6	6	10	2	6
			6	1	8	3	10	6	6	10	2	6
			40	61	55	59	62	61	59	71	87	129
			40	61	55	59	62	61	59	71	87	129

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
6690		Redding, CA MSA	7	7	10	9	14	13	14	17	14	18
		Shasta County	7	7	10	9	14	13	14	17	14	18
6720		Reno, NV MSA	41	73	50	46	61	59	68	67	101	96
		Washoe County	41	73	50	46	61	59	68	67	101	96
6740		Richland-Kennewick-Pasco, WA MSA	40	31	44	43	35	40	39	48	62	55
		Benton County	36	31	40	40	29	33	36	44	57	50
		Franklin County	4	0	4	3	6	7	3	4	5	5
6760		Richmond-Petersburg, VA MSA	133	174	189	184	150	132	143	152	125	146
		Charles City County	0	0	0	0	0	0	0	0	0	0
		Chesterfield County	34	43	50	60	54	45	48	61	40	43
		Dirwiddie County	0	0	0	1	0	0	1	0	0	0
		Goochland County	5	0	2	6	5	2	2	1	1	2
		Hanover County	7	13	13	14	5	8	11	8	8	11
		Henrico County	0	7	7	9	7	5	3	8	6	11
		New Kent County	2	1	2	4	3	0	1	1	1	2
		Powhatan County	5	2	1	4	5	3	4	2	5	1
		Prince George County	0	0	0	1	1	1	0	0	1	2
		Colonial Heights (city)	2	3	3	3	0	0	0	1	1	0
		Hopewell (city)	3	5	6	3	3	2	3	1	4	0
		Petersburg (city)	3	2	1	1	0	1	0	0	1	3
		Richmond (city)	72	98	104	78	67	65	70	69	57	71
6780		Riverside-San Bernardino, CA PMSA (See Los Angeles-Riverside-Orange County, CA CMSA)	195	238	255	270	226	266	258	275	353	351
6800		Roanoke, VA MSA	30	42	44	52	59	38	32	30	48	37
		Botetourt County	2	1	3	10	13	6	5	3	10	7
		Roanoke County	0	0	1	1	1	2	1	5	5	4
		Roanoke (city)	22	29	26	31	38	22	19	18	26	21
		Salem (city)	6	12	14	10	7	8	7	4	7	5
6820		Rochester, MN MSA	51	37	38	64	85	77	102	116	209	229
		Olmsted County	51	37	38	64	85	77	102	116	209	229
6840		Rochester, NY MSA	916	1168	1200	1392	1381	1227	1391	1338	1749	1568
		Genesee County	8	13	14	18	20	21	11	16	23	24
		Livingston County	9	14	18	17	12	18	12	15	10	23
		Monroe County	817	1040	1044	1244	1211	1076	1222	1168	1549	1358
		Ontario County	23	44	55	41	40	31	43	37	51	64
		Orleans County	7	10	8	11	17	7	12	17	17	14
		Wayne County	52	47	61	61	81	74	91	85	99	85
6880		Rockford, IL MSA	169	197	135	94	102	91	110	96	131	131
		Boone County	6	7	8	3	7	5	3	3	3	3
		Ogle County	8	11	11	11	6	6	7	9	9	13
		Winnnebago County	155	179	116	80	89	80	100	84	119	115
6895		Rocky Mount, NC MSA	3	6	6	3	3	10	7	2	4	7
		Edgecombe County	2	4	3	2	2	5	4	1	2	4
		Nash County	1	2	3	1	1	5	3	1	2	3
6920		Sacramento, CA PMSA (See Sacramento-Yolo, CA CMSA)	121	140	146	163	191	207	238	231	289	295
6922		Sacramento-Yolo, CA CMSA	147	164	179	193	230	242	295	301	370	398
	6920	Sacramento, CA PMSA	121	140	146	163	191	207	238	231	289	295
		El Dorado County	26	25	24	39	43	45	55	58	70	75
		Placer County	27	29	26	22	37	45	42	44	49	72
		Sacramento County	68	86	96	102	111	117	141	129	170	148
	9270	Yolo, CA PMSA	26	24	33	30	39	35	57	70	81	103
		Yolo County	26	24	33	30	39	35	57	70	81	103

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
6960		Saginaw-Bay City-Midland,MI MSA	318	327	340	280	280	261	277	227	248	230
		Bay County	141	145	153	127	121	114	123	99	117	103
		Midland County	135	146	147	123	112	110	113	92	99	81
		Saginaw County	42	36	40	30	47	37	41	36	32	46
6980		St. Cloud, MN MSA	7	11	8	10	12	9	12	12	21	13
		Benton County	2	4	3	5	5	4	3	3	9	4
		Stearns County	5	7	5	5	7	5	9	9	12	9
7000		St. Joseph, MO MSA	4	4	2	8	8	8	9	4	6	11
		Andrew County	0	0	0	1	0	0	1	0	1	0
		Buchanan County	4	4	2	7	8	8	8	4	5	11
7040		St. Louis, MO-IL MSA	436	536	555	510	510	526	536	666	743	743
		Clinton County, IL	1	4	2	0	1	2	6	3	3	0
		Jersey County, IL	1	2	1	1	2	1	2	2	2	2
		Madison County, IL	27	35	48	42	52	63	90	145	120	84
		Monroe County, IL	1	1	2	2	5	1	2	2	1	2
		St. Clair County, IL	19	10	20	25	19	18	17	19	12	12
		Franklin County, MO	10	10	9	5	12	11	8	10	7	18
		Jefferson County, MO	15	17	11	16	16	11	11	11	15	20
		Lincoln County, MO	0	1	0	0	0	2	1	1	3	5
		St. Charles County, MO	28	52	39	43	48	53	68	74	109	104
		St. Louis County, MO	203	243	257	205	207	207	185	247	256	297
		Warren County, MO	4	2	7	2	1	5	0	1	3	1
		St. Louis (city), MO	127	159	159	169	147	152	146	151	212	198
7080		Salem, OR PMSA (See Portland-Salem, OR-WA CMSA)	22	27	24	21	20	22	24	18	37	34
7120		Salinas, CA MSA	32	27	27	33	40	33	46	42	45	61
		Monterey County	32	27	27	33	40	33	46	42	45	61
7160		Salt Lake City-Ogden, UT MSA	236	263	269	307	295	343	401	431	472	474
		Davis County	24	30	27	36	51	43	61	76	62	69
		Salt Lake County	185	197	214	234	208	233	257	295	340	350
		Weber County	27	36	28	37	36	67	83	60	70	55
7200		San Angelo, TX MSA	5	4	4	4	2	3	0	1	5	3
		Tom Green County	5	4	4	4	2	3	0	1	5	3
7240		San Antonio, TX MSA	115	101	122	121	145	142	158	154	197	257
		Bexar County	105	96	111	106	134	127	140	139	181	231
		Comal County	4	2	4	7	6	7	6	10	12	15
		Guadalupe County	5	3	5	7	5	7	5	3	4	9
		Wilson County	1	0	2	1	0	1	7	2	0	2
7320		San Diego, CA MSA	761	870	860	875	936	908	1115	1235	1673	1748
		San Diego County	761	870	860	875	936	908	1115	1235	1673	1748
7360		San Francisco, CA PMSA (See San Francisco-Oakland-San Jose, CA CMSA)	557	651	658	670	682	801	921	1145	1707	1700
7362		San Francisco-Oakland-San Jose, CA CMSA	2653	2928	3162	3463	3789	4278	5176	5740	8526	9405
	5775	Oakland, CA PMSA	629	634	717	732	803	821	916	1012	1462	1589
		Alameda County	373	376	437	452	539	546	647	678	1058	1186
		Contra Costa County	256	258	280	280	264	275	269	334	404	403
	7360	San Francisco, CA PMSA	557	651	658	670	682	801	921	1145	1707	1700
		Marin County	95	96	91	92	75	105	100	110	153	154
		San Francisco County	121	136	137	158	166	167	225	265	371	393
		San Mateo County	341	419	430	420	441	529	596	770	1183	1153
	7400	San Jose, CA PMSA	1295	1468	1603	1850	2099	2416	3036	3255	4931	5664
		Santa Clara County	1295	1468	1603	1850	2099	2416	3036	3255	4931	5664

(continued)

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
7362		San Francisco-Oakland-San Jose, CA CMSA <i>(continued)</i>										
	7485	Santa Cruz-Watsonville, CA PMSA	75	78	64	94	94	106	158	167	243	245
		Santa Cruz County	75	78	64	94	94	106	158	167	243	245
	7500	Santa Rosa, CA PMSA	67	65	76	68	71	90	94	114	122	141
		Sonoma County	67	65	76	68	71	90	94	114	122	141
	8720	Vallejo-Fairfield-Napa, CA PMSA	30	32	44	49	40	44	51	47	61	66
		Napa County	13	9	15	19	11	13	20	9	21	24
		Solano County	17	23	29	30	29	31	31	38	40	42
7400		San Jose, CA PMSA (See San Francisco-Oakland-San Jose, CA CMSA)	1295	1468	1603	1850	2099	2416	3036	3255	4931	5664
7460		San Luis Obispo-Atascadero-Paso Robles, CA MSA	22	28	30	31	34	36	34	42	63	61
		San Luis Obispo County	22	28	30	31	34	36	34	42	63	61
7480		Santa Barbara-Santa Maria-Lompoc, CA MSA	136	136	130	128	113	164	156	171	241	212
		Santa Barbara County	136	136	130	128	113	164	156	171	241	212
7485		Santa Cruz-Watsonville, CA PMSA (See San Francisco-Oakland-San Jose, CA CMSA)	75	78	64	94	94	106	158	167	243	245
7490		Santa Fe, NM MSA	60	48	58	59	52	55	55	53	74	68
		Los Alamos County	39	29	39	39	37	32	35	32	47	37
		Santa Fe County	21	19	19	20	15	23	20	21	27	31
7500		Santa Rosa, CA PMSA (See San Francisco-Oakland-San Jose, CA CMSA)	67	65	76	68	71	90	94	114	122	141
7510		Sarasota-Bradenton, FL MSA	75	54	77	77	74	67	84	75	111	132
		Manatee County	22	20	27	21	28	19	21	17	34	47
		Sarasota County	53	34	50	56	46	48	63	58	77	85
7520		Savannah, GA MSA	15	10	15	10	11	14	11	16	19	15
		Bryan County	0	0	0	0	0	0	0	1	0	1
		Chatham County	15	10	15	10	10	13	10	13	17	14
		Effingham County	0	0	0	0	1	1	1	2	2	0
7560		Scranton--Wilkes-Barre--Hazleton, PA MSA	41	44	51	43	41	33	45	44	80	77
		Columbia County	5	1	2	0	2	2	3	2	2	3
		Lackawanna County	12	12	17	19	16	10	15	11	26	30
		Luzerne County	22	29	31	22	21	21	24	29	50	41
		Wyoming County	2	2	1	2	2	0	3	2	2	3
7600		Seattle-Bellevue-Everett, WA PMSA (See Seattle-Tacoma-Bremerton, WA CMSA)	573	623	622	581	605	669	803	963	1275	1296
7602		Seattle-Tacoma-Bremerton, WA CMSA	648	701	701	661	692	747	885	1055	1376	1418
	1150	Bremerton, WA PMSA	9	10	15	27	24	14	35	28	37	46
		Kitsap County	9	10	15	27	24	14	35	28	37	46
	5910	Olympia, WA PMSA	5	8	5	3	8	11	9	10	15	12
		Thurston County	5	8	5	3	8	11	9	10	15	12
	7600	Seattle-Bellevue-Everett, WA PMSA	573	623	622	581	605	669	803	963	1275	1296
		Island County	4	4	2	7	5	8	10	5	2	3
		King County	484	518	534	489	520	560	661	821	1117	1159
		Snohomish County	85	101	86	85	80	101	132	137	156	134
	8200	Tacoma, WA PMSA	61	60	59	50	55	53	38	54	49	64
		Pierce County	61	60	59	50	55	53	38	54	49	64
7610		Sharon, PA MSA	11	9	6	9	13	9	8	15	20	22
		Mercer County	11	9	6	9	13	9	8	15	20	22

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
7620		Sheboygan, WI MSA	36	50	38	47	37	41	34	37	44	36
		Sheboygan County	36	50	38	47	37	41	34	37	44	36
7640		Sherman-Denison, TX MSA	18	17	20	14	16	8	34	33	19	25
		Grayson County	18	17	20	14	16	8	34	33	19	25
7680		Shreveport-Bossier City, LA MSA	34	30	24	28	26	25	22	25	25	14
		Bossier Parish	22	17	15	12	14	13	11	14	13	7
		Caddo Parish	11	10	8	10	8	11	10	10	10	6
		Webster Parish	1	3	1	6	4	1	1	1	2	1
7720		Sioux City, IA-NE MSA	7	6	5	6	8	5	13	9	21	20
		Woodbury County, IA	7	5	3	5	3	3	12	9	18	19
		Dakota County, NE	0	1	2	1	5	2	1	0	3	1
7760		Sioux Falls, SD MSA	10	12	9	11	13	7	10	10	18	24
		Lincoln County	4	5	4	5	6	4	6	4	11	11
		Minnehaha County	6	7	5	6	7	3	4	6	7	13
7800		South Bend, IN MSA	51	72	81	69	63	54	62	45	76	67
		St. Joseph County	51	72	81	69	63	54	62	45	76	67
7840		Spokane, WA MSA	42	39	42	52	47	42	38	41	50	51
		Spokane County	42	39	42	52	47	42	38	41	50	51
7880		Springfield, IL MSA	20	14	17	22	23	14	11	22	16	17
		Menard County	0	0	0	0	1	0	0	0	0	1
		Sangamon County	20	14	17	22	22	14	11	22	16	16
7920		Springfield, MO MSA	46	40	32	25	35	35	32	33	32	30
		Christian County	23	22	16	12	16	16	13	15	15	11
		Greene County	22	18	16	13	19	18	18	16	14	16
		Webster County	1	0	0	0	0	1	1	2	3	3
8000		Springfield, MA MSA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Franklin County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Hampden County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Hampshire County (part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8003		Springfield, MA NECMA	76	89	101	72	101	95	92	70	109	101
		Hampden County	54	57	58	52	67	58	60	44	72	66
		Hampshire County	22	32	43	20	34	37	32	26	37	35
8040		Stamford-Norwalk, CT PMSA (See New York-Northern New Jersey Long Island, NY-NJ-CT-PA CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
8050		State College, PA MSA	15	33	26	25	33	36	37	46	45	63
		Centre County	15	33	26	25	33	36	37	46	45	63
8080		Steubenville-Weirton, OH-WV MSA	8	13	8	14	18	15	11	25	14	15
		Jefferson County, OH	0	4	2	1	6	2	3	5	2	7
		Brooke County, WV	6	7	3	9	10	11	6	11	7	3
		Hancock County, WV	2	2	3	4	2	2	2	9	5	5
8120		Stockton-Lodi, CA MSA	37	33	40	23	33	39	40	30	44	44
		San Joaquin County	37	33	40	23	33	39	40	30	44	44
8140		Sumter, SC MSA	4	2	5	4	6	5	3	2	5	3
		Sumter County	4	2	5	4	6	5	3	2	5	3

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
8160		Syracuse, NY MSA	151	192	167	151	153	150	132	119	176	171
		Cayuga County	8	12	18	9	7	8	11	3	15	15
		Madison County	11	15	16	13	22	13	8	6	15	12
		Onondaga County	120	151	115	113	115	120	106	101	132	134
		Oswego County	12	14	18	16	9	9	7	9	14	10
8200		Tacoma, WA PMSA (See Seattle-Tacoma-Bremerton, WA CMSA)	61	60	59	50	55	53	38	54	49	64
8240		Tallahassee, FL MSA	15	10	16	22	27	30	28	31	36	42
		Gadsden County	0	0	0	2	3	1	1	4	2	2
		Leon County	15	10	16	20	24	29	27	27	34	40
8280		Tampa-St. Petersburg-Clearwater, FL MSA	243	278	270	217	262	274	260	286	382	386
		Hernando County	12	12	9	10	8	5	7	6	13	13
		Hillsborough County	47	73	80	70	79	73	91	96	123	112
		Pasco County	14	21	26	23	20	15	23	17	26	32
		Pinellas County	170	172	155	114	155	181	139	167	220	229
8320		Terre Haute, IN MSA	16	25	12	14	13	10	9	12	16	20
		Clay County	2	4	4	4	5	2	1	3	3	6
		Vermillion County	0	1	1	1	0	0	1	0	1	1
		Vigo County	14	20	7	9	8	8	7	9	12	13
8360		Texarkana, TX-Texarkana, AR MSA	2	4	3	3	7	4	7	4	3	5
		Miller County, AR	1	1	1	1	0	4	3	1	0	2
		Bowie County, TX	1	3	2	2	7	0	4	3	3	3
8400		Toledo, OH MSA	158	138	148	126	130	138	127	166	185	223
		Fulton County	3	9	10	2	3	4	12	12	9	17
		Lucas County	113	101	96	105	92	103	77	116	134	132
		Wood County	42	28	42	19	35	31	38	38	42	74
8440		Topeka, KS MSA	6	6	8	8	10	11	9	12	15	16
		Shawnee County	6	6	8	8	10	11	9	12	15	16
8480		Trenton, NJ PMSA (See New York-Northern New Jersey- Long Island, NY-NJ-CT-PA CMSA)	378	381	345	341	336	300	345	321	361	345
8520		Tucson, AZ MSA	129	160	148	182	185	200	183	202	250	273
		Pima County	129	160	148	182	185	200	183	202	250	273
8560		Tulsa, OK MSA	250	226	240	230	199	181	175	156	189	178
		Creek County	2	2	7	5	6	5	4	3	12	11
		Osage County	112	112	119	129	96	72	71	65	66	62
		Rogers County	51	43	44	37	37	39	41	38	43	43
		Tulsa County	62	52	55	44	44	47	44	38	49	45
		Wagoner County	23	17	15	15	16	18	15	12	19	17
8600		Tuscaloosa, AL MSA	8	12	1	7	4	5	8	11	4	7
		Tuscaloosa County	8	12	1	7	4	5	8	11	4	7
8640		Tyler, TX MSA	8	11	18	12	14	19	11	19	20	16
		Smith County	8	11	18	12	14	19	11	19	20	16
8680		Utica-Rome, NY MSA	32	32	37	43	28	35	43	55	45	67
		Herkimer County	3	2	6	6	1	3	3	4	2	13
		Oneida County	29	30	31	37	27	32	40	51	43	54
8720		Vallejo-Fairfield-Napa, CA PMSA (See San Francisco-Oakland-San Jose, CA CMSA)	30	32	44	49	40	44	51	47	61	66

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
8735		Ventura, CA PMSA (See Los Angeles-Riverside-Orange County, CA CMSA)	234	228	236	225	280	260	250	273	321	328
8750		Victoria, TX MSA Victoria County	2	7	3	4	2	2	3	2	4	6
8760		Vineland-Millville-Bridgeton, NJ PMSA (See Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA)	4	9	6	7	8	5	5	10	6	10
8780		Visalia-Tulare-Porterville, CA MSA Tulare County	13	12	16	16	13	19	13	16	14	13
8800		Waco, TX MSA McLennan County	4	7	6	10	16	12	16	10	12	9
8840		Washington, DC-MD-VA-WV PMSA (See Washington-Baltimore, DC-MD-VA-WV CMSA)	755	770	815	839	883	913	974	958	1292	1299
8872		Washington-Baltimore, DC-MD-VA-WV CMSA	1132	1174	1266	1296	1384	1343	1448	1502	1952	1969
	0720	Baltimore, MD PMSA	369	397	439	445	495	425	470	535	647	664
		Anne Arundel County	70	93	83	92	111	76	105	80	104	84
		Baltimore County	94	81	89	75	105	86	99	141	143	164
		Carroll County	19	21	16	23	18	14	27	20	42	44
		Harford County	25	47	41	35	46	28	35	46	56	64
		Howard County	78	83	106	118	106	113	107	119	140	152
		Queen Anne's County	4	4	7	3	5	7	3	8	12	14
		Baltimore (city)	79	68	97	99	104	101	94	121	150	142
	3180	Hagerstown, MD PMSA	8	7	12	12	6	5	4	9	13	6
		Washington County	8	7	12	12	6	5	4	9	13	6
	8840	Washington DC-MD-VA-WV PMSA	755	770	815	839	883	913	974	958	1292	1299
		District of Columbia	38	59	59	53	44	57	40	52	74	55
		Calvert County, MD	4	4	7	3	3	3	8	4	3	11
		Charles County, MD	10	12	8	16	16	8	3	6	12	20
		Frederick County, MD	27	28	34	37	28	42	40	60	62	60
		Montgomery County, MD	306	287	319	355	380	365	441	445	551	580
		Prince George's County, MD	68	74	91	83	85	93	86	55	97	107
		Arlington County, VA	16	40	32	17	29	22	19	24	47	28
		Clarke County, VA	1	0	1	0	0	3	0	1	0	1
		Culpeper County, VA	1	1	2	0	3	0	5	0	0	4
		Fairfax County, VA	125	93	121	101	129	130	163	155	222	205
		Fauquier County, VA	7	6	3	9	11	6	8	10	13	10
		King George County, VA	5	6	8	4	8	6	9	10	13	14
		Loudoun County, VA	10	13	16	16	9	23	25	29	35	32
		Prince William County, VA	14	15	9	21	11	19	15	16	16	19
		Spotsylvania County, VA	1	2	1	2	1	2	1	0	0	2
		Stafford County, VA	6	7	2	3	1	4	6	5	3	5
		Warren County, VA	0	1	0	2	1	3	4	2	0	4
		Alexandria (city), VA	56	51	41	58	54	55	42	42	62	59
		Fairfax (city), VA	20	12	13	15	20	24	19	14	31	31
		Falls Church (city), VA	13	29	16	15	22	19	12	8	20	17
		Fredericksburg (city), VA	13	10	9	10	9	3	2	7	6	8
		Manassas (city), VA	10	17	18	14	15	20	20	8	16	19
		Manassas Park (city), VA	1	0	0	0	1	0	1	1	1	1
		Berkeley County, WV	3	1	2	1	0	2	1	2	6	5
		Jefferson County, WV	0	2	3	4	3	4	4	2	2	2
8880		Waterbury, CT PMSA (See New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8920		Waterloo-Cedar Falls, IA MSA Black Hawk County	20	17	18	17	13	18	12	7	14	18

Geographic Codes		Metropolitan area and geographic components	Year of Utility Patent Grant									
Metro-politan	PMSA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
8940		Wausau, WI MSA	21	23	20	25	22	14	19	23	19	11
		Marathon County	21	23	20	25	22	14	19	23	19	11
8960		West Palm Beach-Boca Raton, FL MSA	209	207	263	282	322	358	355	395	472	403
		Palm Beach County	209	207	263	282	322	358	355	395	472	403
9000		Wheeling, WV-OH MSA	5	8	6	9	14	9	7	11	13	13
		Belmont County, OH	1	1	0	2	1	1	1	1	2	1
		Marshall County, WV	3	4	4	5	10	6	3	9	10	8
		Ohio County, WV	1	3	2	2	3	2	3	1	1	4
9040		Wichita, KS MSA	77	56	67	47	55	53	59	48	82	102
		Butler County	0	1	2	2	3	3	0	3	6	11
		Harvey County	8	3	10	5	9	6	6	5	13	8
		Sedgwick County	69	52	55	40	43	44	53	40	63	83
9080		Wichita Falls, TX MSA	10	10	10	16	14	12	10	6	11	9
		Archer County	5	5	5	8	6	6	4	3	3	3
		Wichita County	5	5	5	8	8	6	6	3	8	6
9140		Williamsport, PA MSA	28	18	21	13	19	30	20	19	21	27
		Lycoming County	28	18	21	13	19	30	20	19	21	27
9160		Wilmington-Newark, DE-MD PMSA (See Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA)	403	507	520	505	432	426	470	364	413	419
9200		Wilmington, NC MSA	24	28	25	36	36	38	38	30	40	50
		Brunswick County	3	5	5	3	3	4	4	3	4	7
		New Hanover County	21	23	20	33	33	34	34	27	36	43
9240		Worcester, MA-CT PMSA (See Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
9260		Yakima, WA MSA	19	14	12	15	14	14	16	14	21	15
		Yakima County	19	14	12	15	14	14	16	14	21	15
9270		Yolo, CA PMSA (See Sacramento-Yolo, CA CMSA)	26	24	33	30	39	35	57	70	81	103
9280		York, PA MSA	51	58	60	46	39	45	57	65	94	91
		York County	51	58	60	46	39	45	57	65	94	91
9320		Youngstown-Warren, OH MSA	62	72	65	62	46	42	50	57	85	67
		Columbiana County	7	11	16	18	8	10	7	9	9	11
		Mahoning County	22	26	26	21	17	12	24	18	30	28
		Trumbull County	33	35	23	23	21	20	19	30	46	28
9340		Yuba City, CA MSA	2	6	9	5	6	14	4	4	3	6
		Sutter County	1	4	5	4	6	11	2	2	2	5
		Yuba County	1	2	4	1	0	3	2	2	1	1
9360		Yuma, AZ MSA	3	3	7	2	1	4	11	0	5	3
		Yuma County	3	3	7	2	1	4	11	0	5	3

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990 - 1999**

Alphabetic and numeric state codes and numeric county codes correspond to Federal Information Processing Standards (FIPS) codes. Numeric county code 999 is used to represent patents that could not be associated with any particular county (or county equivalent) within the state.

ALABAMA

Alphabetic Code: AL
Numeric Code: 01

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Autauga	2	0	1	0	1	1	2	0	2	1
003	Baldwin	5	10	4	10	12	6	5	11	14	14
005	Barbour	0	0	1	1	1	2	0	0	1	1
007	Bibb	0	1	0	0	0	0	0	0	0	0
009	Blount	1	2	0	0	0	0	0	0	3	1
011	Bullock	0	0	0	0	0	0	0	0	0	0
013	Butler	0	0	0	0	0	0	0	0	0	1
015	Calhoun	2	5	2	3	2	4	8	6	3	2
017	Chambers	1	2	0	0	0	1	1	1	0	1
019	Cherokee	0	0	1	0	0	0	1	0	0	1
021	Chilton	1	3	0	0	1	1	0	0	1	0
023	Choctaw	0	0	0	0	0	2	1	0	0	1
025	Clarke	2	2	0	0	0	0	0	0	0	1
027	Clay	0	0	0	1	0	0	0	1	0	0
029	Cleburne	0	0	0	1	0	0	0	0	1	1
031	Coffee	1	2	0	0	1	0	0	0	0	1
033	Colbert	3	4	5	4	2	6	9	6	7	3
035	Conecuh	0	0	0	0	0	0	0	0	1	0
037	Coosa	0	0	0	0	0	0	0	0	0	0
039	Covington	1	0	0	0	1	2	0	1	0	0
041	Crenshaw	0	0	0	0	0	0	0	0	0	0
043	Cullman	9	6	11	9	8	8	6	3	7	5
045	Dale	1	1	7	1	2	3	2	3	7	5
047	Dallas	0	1	2	0	1	3	3	3	2	0
049	DeKalb	0	0	0	0	2	1	3	5	3	3
051	Elmore	6	2	6	4	1	3	4	4	6	4
053	Escambia	0	1	0	1	2	1	1	2	2	1
055	Etowah	1	3	2	5	3	9	4	3	1	0
057	Fayette	1	2	0	2	2	1	0	2	1	5
059	Franklin	0	1	0	1	0	0	1	0	0	0
061	Geneva	0	2	0	0	0	0	0	1	0	0
063	Greene	0	0	0	0	0	0	0	0	0	0
065	Hale	1	0	0	0	0	0	0	0	0	0
067	Henry	1	1	2	0	1	3	1	1	2	3
069	Houston	1	1	2	0	4	7	5	4	5	6
071	Jackson	2	2	2	2	2	3	1	3	1	5
073	Jefferson	24	34	21	29	27	25	26	33	41	39
075	Lamar	0	0	0	0	1	0	0	0	2	0
077	Lauderdale	23	22	16	14	11	7	6	9	6	12
079	Lawrence	0	0	0	0	2	1	0	1	0	1
081	Lee	17	11	14	3	7	14	12	13	15	19
083	Limestone	55	45	39	40	38	39	40	32	52	54
085	Lowndes	0	0	0	1	0	0	0	0	0	0
087	Macon	0	0	1	3	0	0	0	0	1	0
089	Madison	55	48	36	41	39	36	44	43	58	53
091	Marengo	0	0	0	0	1	0	0	0	0	0
093	Marion	2	1	1	3	2	1	1	5	1	0
095	Marshall	14	7	11	12	10	11	7	6	5	6
097	Mobile	29	33	24	28	19	23	24	36	42	61
099	Monroe	2	2	3	0	0	0	0	1	1	1
101	Montgomery	7	8	12	11	11	13	11	10	9	16
103	Morgan	8	8	4	4	7	11	4	5	13	13
105	Perry	0	0	0	0	0	0	0	0	0	0
107	Pickens	0	0	0	1	0	0	0	0	0	0
109	Pike	0	0	0	0	1	2	1	1	0	1

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

ALABAMA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
111	Randolph	1	0	0	0	0	0	0	0	0	1
113	Russell	1	2	1	1	2	1	2	2	2	0
115	St. Clair	3	0	0	2	3	1	2	2	1	6
117	Shelby	19	27	19	21	20	25	27	28	34	41
119	Sumter	0	0	0	0	0	0	0	0	0	0
121	Talladega	1	4	3	3	2	0	5	2	1	1
123	Tallapoosa	2	3	2	3	1	2	3	2	4	6
125	Tuscaloosa	8	12	1	7	4	5	8	11	4	7
127	Walker	0	0	0	1	2	1	1	1	2	2
129	Washington	1	0	0	0	0	0	1	0	2	0
131	Wilcox	0	0	0	0	0	0	0	0	0	0
133	Winston	0	0	0	0	1	1	0	1	2	0
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	314	321	256	273	260	286	283	304	368	406

ALASKA

Alphabetic Code: AK
Numeric Code: 02

Borough/Census Area		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
013	Aleutians East	0	0	0	0	0	0	0	0	0	0
016	Aleutians West	0	0	0	0	0	0	0	0	1	0
020	Anchorage	14	24	19	27	30	24	20	25	31	30
050	Bethel	0	1	0	0	0	0	0	0	1	1
060	Bristol Bay	0	0	0	0	0	0	0	0	0	0
068	Denali	0	0	0	1	0	0	0	0	0	0
070	Dillingham	0	1	0	0	0	0	0	0	0	0
090	Fairbanks North Star	4	3	3	3	4	4	2	3	7	9
100	Haines	0	0	0	0	0	0	0	0	0	0
110	Juneau	1	3	0	3	3	0	1	3	2	3
122	Kenai Peninsula	3	3	2	3	2	5	1	1	6	3
130	Ketchikan Gateway	0	0	0	1	1	0	1	0	0	0
150	Kodiak Island	0	0	1	0	2	2	3	1	3	2
164	Lake and Peninsula	0	0	0	0	0	0	0	0	0	0
170	Matanuska-Susitna	4	3	3	6	5	3	5	12	7	4
180	Nome	0	0	0	0	0	0	1	1	0	0
185	North Slope	0	0	1	0	0	0	0	0	0	0
188	Northwest Arctic	0	0	0	0	0	0	1	0	0	0
201	Prince of Wales-- --Outer Ketchikan	1	0	0	0	0	0	0	0	2	0
220	Sitka	0	0	5	0	0	0	0	0	0	0
232	Skagway--Hoonah-- --Angoon	0	0	0	0	0	0	0	0	0	0
240	Southeast Fairbanks	0	1	1	1	0	0	0	0	2	1
261	Valdez-Cordova	0	0	1	2	0	0	1	0	2	0
270	Wade Hampton	0	0	0	0	0	1	0	0	0	0
280	Wrangell-Petersburg	0	1	1	0	0	0	0	0	0	0
282	Yakutat	0	0	0	0	0	0	0	0	0	0
290	Yukon-Koyukuk	0	1	0	0	0	1	0	0	0	0
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	27	41	37	47	47	40	36	46	64	53

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

ARIZONA

Alphabetic Code: **AZ**
Numeric Code: **04**

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Apache	0	0	1	0	0	0	1	0	0	2
003	Cochise	7	5	11	3	4	4	9	6	3	10
005	Coconino	8	12	18	15	14	19	6	11	20	27
007	Gila	1	2	1	1	0	0	3	1	4	3
009	Graham	0	0	1	1	0	1	2	0	0	1
011	Greenlee	1	0	0	0	1	0	0	0	0	0
012	La Paz	2	0	1	0	1	0	0	1	1	0
013	Maricopa	484	613	625	616	689	742	816	794	1169	1139
015	Mohave	5	8	5	4	6	5	5	10	9	7
017	Navajo	5	1	1	3	1	4	1	3	3	2
019	Pima	129	160	148	182	185	200	183	202	250	273
021	Pinal	9	12	7	10	12	11	15	5	13	13
023	Santa Cruz	2	3	0	2	1	0	0	0	1	3
025	Yavapai	9	12	14	10	16	10	11	15	36	17
027	Yuma	3	3	7	2	1	4	11	0	5	3
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	665	831	840	849	931	1000	1063	1048	1514	1500

ARKANSAS

Alphabetic Code: **AR**
Numeric Code: **05**

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Arkansas	0	1	2	0	0	0	0	0	3	4
003	Ashley	2	0	1	1	0	0	0	0	0	2
005	Baxter	0	1	1	0	1	1	0	1	3	1
007	Benton	6	8	17	8	11	14	11	11	13	15
009	Boone	1	1	1	1	1	0	2	1	2	1
011	Bradley	1	0	1	0	0	0	0	0	0	0
013	Calhoun	0	0	0	0	0	0	0	0	0	0
015	Carroll	2	3	2	2	0	0	0	1	0	1
017	Chicot	1	1	0	0	0	0	0	0	0	0
019	Clark	0	2	0	0	1	0	1	3	2	2
021	Clay	1	0	0	0	0	1	0	0	0	0
023	Cleburne	2	0	0	1	1	0	6	0	0	2
025	Cleveland	1	0	0	0	0	0	0	0	0	0
027	Columbia	4	9	7	6	6	2	2	1	2	1
029	Conway	0	1	0	2	1	0	0	0	0	0
031	Craighead	3	3	7	3	3	2	6	8	3	13
033	Crawford	0	2	1	0	3	0	2	3	2	5
035	Crittenden	0	1	2	0	0	1	1	1	2	0
037	Cross	0	0	1	0	0	0	0	1	0	0
039	Dallas	0	0	0	0	0	0	0	0	0	0
041	Desha	0	0	1	1	0	1	1	0	1	1
043	Drew	3	3	0	0	0	1	0	0	0	0
045	Faulkner	3	1	5	3	4	4	6	4	9	13
047	Franklin	0	0	3	3	0	1	1	0	2	1
049	Fulton	1	0	0	0	1	2	0	0	0	0
051	Garland	4	5	6	4	3	7	3	2	4	2
053	Grant	1	0	0	2	1	0	1	1	0	0
055	Greene	5	4	4	4	3	3	6	5	3	5
057	Hempstead	2	0	0	0	0	0	0	0	1	1
059	Hot Spring	1	1	1	2	1	1	2	1	1	0
061	Howard	0	0	0	0	0	0	0	0	0	1
063	Independence	3	0	6	4	3	1	1	1	2	1
065	Izard	0	0	0	0	0	1	0	0	1	1

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

ARKANSAS		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
067	Jackson	1	1	0	1	1	0	0	0	0	0
069	Jefferson	2	5	3	1	1	1	1	4	1	1
071	Johnson	2	2	0	1	0	2	0	1	0	0
073	Lafayette	0	0	0	0	0	0	0	0	0	0
075	Lawrence	0	0	0	1	0	0	0	0	0	1
077	Lee	0	0	0	0	0	0	0	0	0	0
079	Lincoln	1	0	0	0	2	0	0	0	0	0
081	Little River	1	0	0	2	0	0	0	1	1	3
083	Logan	0	0	1	1	2	1	0	1	2	2
085	Lonoke	1	0	0	6	4	0	3	1	1	1
087	Madison	0	0	1	0	1	1	0	2	0	0
089	Marion	1	0	0	0	3	0	2	2	1	1
091	Miller	1	1	1	1	0	4	3	1	0	2
093	Mississippi	2	0	2	1	2	1	3	1	1	1
095	Monroe	0	0	0	0	0	0	0	0	0	0
097	Montgomery	0	0	0	0	0	0	1	0	0	0
099	Nevada	0	1	0	0	0	0	0	0	0	1
101	Newton	1	0	0	0	0	0	0	0	0	0
103	Ouachita	1	0	0	0	1	2	0	0	0	0
105	Perry	0	0	0	0	0	0	0	0	0	0
107	Phillips	0	0	0	1	0	0	1	0	0	0
109	Pike	0	0	0	0	0	0	0	0	0	0
111	Poinsett	1	0	0	0	1	1	1	0	0	1
113	Polk	1	0	1	0	0	1	0	0	0	0
115	Pope	1	3	5	2	4	0	3	1	5	7
117	Prairie	0	0	0	0	0	0	0	0	0	0
119	Pulaski	31	25	23	18	23	15	21	25	33	61
121	Randolph	2	1	0	2	2	0	2	3	1	1
123	St. Francis	0	1	1	1	0	0	0	0	0	0
125	Saline	5	2	3	3	5	3	4	0	3	2
127	Scott	0	0	0	1	0	1	0	0	0	0
129	Searcy	0	1	0	0	0	1	0	0	0	1
131	Sebastian	9	8	11	10	10	7	5	12	13	8
133	Sevier	1	0	0	0	1	0	0	1	0	0
135	Sharp	1	0	1	0	0	1	1	1	0	0
137	Stone	0	1	0	0	0	0	0	0	1	0
139	Union	1	2	3	2	2	5	2	5	2	2
141	Van Buren	0	1	0	0	0	0	0	1	1	0
143	Washington	5	14	19	12	11	17	9	16	21	19
145	White	7	3	3	3	2	0	1	2	5	1
147	Woodruff	0	0	0	0	0	0	0	0	0	1
149	Yell	3	1	1	3	1	1	0	1	0	1
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	129	120	148	120	123	108	115	127	148	191

CALIFORNIA

Alphabetic Code: CA
Numeric Code: 06

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Alameda	373	376	437	452	539	546	647	678	1058	1186
003	Alpine	0	0	0	0	1	0	0	0	0	0
005	Amador	0	1	3	2	0	1	1	3	2	7
007	Butte	47	22	16	12	14	14	8	12	22	14
009	Calaveras	1	1	2	2	1	2	3	4	12	11
011	Colusa	1	0	1	0	0	0	1	1	0	1
013	Contra Costa	256	258	280	280	264	275	269	334	404	403
015	Del Norte	2	0	0	1	1	2	0	1	2	1
017	El Dorado	26	25	24	39	43	45	55	58	70	75
019	Fresno	22	26	31	35	40	31	37	31	46	38
021	Glenn	2	1	0	2	2	2	2	0	1	0
023	Humboldt	3	7	13	4	5	5	1	9	12	12

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

CALIFORNIA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
025	Imperial	6	3	0	3	1	0	3	2	1	5
027	Inyo	2	2	1	2	1	1	0	3	1	1
029	Kern	50	92	73	57	73	58	54	34	65	56
031	Kings	1	4	1	4	2	3	2	1	2	3
033	Lake	6	1	2	3	1	2	0	2	4	6
035	Lassen	0	2	4	1	0	0	1	1	0	1
037	Los Angeles	1586	1804	1649	1646	1876	1710	1777	1807	2335	2348
039	Madera	3	5	9	6	6	9	2	10	7	10
041	Marin	95	96	91	92	75	105	100	110	153	154
043	Mariposa	2	4	2	3	3	1	0	1	2	3
045	Mendocino	7	5	8	12	6	11	10	6	17	13
047	Merced	2	6	9	6	4	5	4	9	8	12
049	Modoc	0	2	0	0	1	0	0	0	0	0
051	Mono	1	3	2	1	2	3	1	1	2	1
053	Monterey	32	27	27	33	40	33	46	42	45	61
055	Napa	13	9	15	19	11	13	20	9	21	24
057	Nevada	29	33	29	29	32	28	36	25	41	43
059	Orange	891	965	1032	1017	1113	1055	1084	1134	1484	1473
061	Placer	27	29	26	22	37	45	42	44	49	72
063	Plumas	1	3	2	4	2	2	3	2	0	1
065	Riverside	87	107	110	111	110	117	113	130	185	170
067	Sacramento	68	86	96	102	111	117	141	129	170	148
069	San Benito	7	6	9	6	6	6	4	10	12	13
071	San Bernardino	108	131	145	159	116	149	145	145	168	181
073	San Diego	761	870	860	875	936	908	1115	1235	1673	1748
075	San Francisco	121	136	137	158	166	167	225	265	371	393
077	San Joaquin	37	33	40	23	33	39	40	30	44	44
079	San Luis Obispo	22	28	30	31	34	36	34	42	63	61
081	San Mateo	341	419	430	420	441	529	596	770	1183	1153
083	Santa Barbara	136	136	130	128	113	164	156	171	241	212
085	Santa Clara	1295	1468	1603	1850	2099	2416	3036	3255	4931	5664
087	Santa Cruz	75	78	64	94	94	106	158	167	243	245
089	Shasta	7	7	10	9	14	13	14	17	14	18
091	Sierra	0	0	0	0	0	0	2	1	2	1
093	Siskiyou	5	2	2	8	2	1	2	4	5	6
095	Solano	17	23	29	30	29	31	31	38	40	42
097	Sonoma	67	65	76	68	71	90	94	114	122	141
099	Stanislaus	28	31	31	27	37	36	30	26	35	40
101	Sutter	1	4	5	4	6	11	2	2	2	5
103	Tehama	1	2	0	2	3	1	1	1	1	3
105	Trinity	1	1	0	0	0	1	0	0	2	1
107	Tulare	13	12	16	16	13	19	13	16	14	13
109	Tuolumne	2	6	2	3	5	2	5	3	3	6
111	Ventura	234	228	236	225	280	260	250	273	321	328
113	Yolo	26	24	33	30	39	35	57	70	81	103
115	Yuba	1	2	4	1	0	3	2	2	1	1
999	UNKNOWN	0	1	1	2	2	0	2	0	1	1
	TOTAL	6948	7718	7888	8171	8956	9264	10477	11290	15794	16776

COLORADO

Alphabetic Code: CO
Numeric Code: 08

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adams	48	43	43	46	58	63	60	56	69	83
003	Alamosa	1	0	0	0	0	2	0	0	0	0
005	Arapahoe	47	42	53	51	67	67	74	65	93	79
007	Archuleta	2	2	0	1	0	1	1	1	0	2
009	Baca	0	0	0	0	0	0	1	0	1	0
011	Bent	0	0	0	0	0	0	0	0	0	0
013	Boulder	160	148	187	216	257	290	288	330	446	476
015	Chaffee	0	4	1	4	1	8	2	1	5	1
017	Cheyenne	1	0	0	0	0	0	0	0	1	0
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

COLORADO		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
019	Clear Creek	0	1	0	1	0	0	0	0	2	2
021	Conejos	0	0	0	0	0	0	0	0	0	0
023	Costilla	0	0	0	0	1	0	0	0	0	0
025	Crowley	0	0	0	0	0	0	0	0	1	1
027	Custer	0	0	0	0	0	0	0	0	0	1
029	Delta	0	0	1	1	0	0	0	1	1	2
031	Denver	74	57	93	87	69	72	80	68	118	103
033	Dolores	0	0	0	0	0	0	1	0	0	0
035	Douglas	35	43	42	46	60	55	60	63	87	95
037	Eagle	4	1	4	4	5	4	7	5	1	7
041	El Paso	72	84	108	103	112	130	165	186	278	270
039	Elbert	1	1	2	3	1	2	1	2	3	2
043	Fremont	3	2	2	0	1	3	2	2	2	4
045	Garfield	3	3	3	0	2	2	2	4	4	8
047	Gilpin	1	0	0	1	1	0	1	1	2	0
049	Grand	3	0	0	0	0	0	1	0	1	3
051	Gunnison	0	1	0	0	0	0	0	0	0	1
053	Hinsdale	0	0	0	0	0	0	0	0	1	1
055	Huerfano	0	0	1	1	0	0	0	1	2	1
057	Jackson	0	0	0	0	0	0	0	0	0	0
059	Jefferson	142	136	144	148	159	173	165	183	214	212
061	Kiowa	0	0	1	0	0	0	0	0	0	1
063	Kit Carson	1	1	1	1	0	3	1	0	0	0
067	La Plata	6	5	4	1	2	2	2	3	4	9
065	Lake	0	0	0	0	0	0	0	1	0	0
069	Larimer	61	100	94	120	148	119	148	126	271	280
071	Las Animas	1	1	0	0	1	0	0	2	0	0
073	Lincoln	0	0	0	1	0	0	0	0	0	0
075	Logan	2	2	0	1	0	1	2	0	1	2
077	Mesa	11	7	6	5	8	11	12	9	8	11
079	Mineral	0	0	0	0	0	0	0	0	0	0
081	Moffat	1	2	1	0	0	2	2	2	0	0
083	Montezuma	1	1	2	0	3	1	2	2	1	0
085	Montrose	8	6	3	1	4	5	6	10	0	7
087	Morgan	0	3	2	1	1	2	2	2	1	2
089	Otero	0	0	0	0	1	1	2	0	1	1
091	Ouray	1	0	1	0	0	0	0	0	1	2
093	Park	0	2	0	1	2	0	0	1	2	1
095	Phillips	1	0	0	0	1	0	0	0	1	0
097	Pitkin	4	4	2	4	4	2	3	4	6	9
099	Prowers	0	0	0	0	1	0	0	0	0	0
101	Pueblo	3	11	5	8	7	6	6	9	6	10
103	Rio Blanco	2	2	0	0	0	1	1	1	0	0
105	Rio Grande	0	1	1	1	0	0	0	0	0	0
107	Routt	3	3	5	1	2	4	3	5	6	5
109	Saguache	0	0	0	0	0	0	0	0	1	1
111	San Juan	0	0	0	0	0	0	0	0	0	0
113	San Miguel	0	0	0	0	1	0	0	0	0	1
115	Sedgwick	0	0	0	0	0	0	0	1	0	0
117	Summit	0	2	2	0	4	4	3	3	9	9
119	Teller	1	2	4	5	6	5	9	5	10	13
121	Washington	0	0	0	0	0	1	0	1	0	0
123	Weld	37	37	30	45	56	55	60	61	86	95
125	Yuma	2	0	1	2	0	0	1	1	0	0
999	UNKNOWN	0	0	0	0	0	0	0	1	2	0
	TOTAL	743	760	849	911	1046	1097	1176	1219	1749	1813

CONNECTICUT

Alphabetic Code: CT
Numeric Code: 09

Code	County	Name	Year of Utility Patent Grant									
			1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001		Fairfield	495	489	528	560	598	562	555	494	638	647
		<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

CONNECTICUT		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
003	Hartford	252	302	301	341	334	297	262	250	347	322
005	Litchfield	92	80	90	81	98	82	102	77	121	118
007	Middlesex	68	60	59	58	73	63	56	72	96	90
009	New Haven	275	297	313	324	328	346	297	326	386	386
011	New London	90	104	95	106	100	118	109	118	128	134
013	Tolland	69	56	50	60	61	59	56	53	64	73
015	Windham	19	11	18	16	17	18	12	13	18	24
999	UNKNOWN	0	1	0	0	0	0	1	0	1	1
	TOTAL	1360	1400	1454	1546	1609	1545	1450	1403	1799	1795

DELAWARE

Alphabetic Code: DE
Numeric Code: 10

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Kent	12	13	11	8	13	10	6	13	11	17
003	New Castle	389	487	492	480	412	403	436	334	376	387
005	Sussex	16	20	20	19	15	15	13	11	7	14
999	UNKNOWN	0	0	1	0	0	0	0	0	0	0
	TOTAL	417	520	524	507	440	428	455	358	394	418

DISTRICT OF COLUMBIA

Alphabetic Code: DC
Numeric Code: 11

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	District of Columbia	38	59	59	53	44	57	40	52	74	55
	TOTAL	38	59	59	53	44	57	40	52	74	55

FLORIDA

Alphabetic Code: FL
Numeric Code: 12

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Alachua	60	68	64	63	63	72	74	85	102	95
003	Baker	2	0	0	1	0	1	0	0	1	0
005	Bay	31	19	11	10	15	13	17	27	35	32
007	Bradford	2	0	1	0	1	1	0	3	1	1
009	Brevard	100	103	95	106	92	92	132	147	143	178
011	Broward	247	236	277	274	325	358	347	298	349	339
013	Calhoun	0	0	1	0	0	0	0	0	0	1
015	Charlotte	12	14	18	14	13	5	25	13	22	19
017	Citrus	4	4	3	8	10	12	7	4	6	11
019	Clay	4	6	5	5	3	6	9	20	13	12
021	Collier	22	22	29	24	26	37	30	36	35	37
023	Columbia	3	1	2	0	4	4	2	2	4	2
027	DeSoto	0	1	1	2	1	2	6	0	4	3
029	Dixie	0	0	0	0	0	0	0	0	0	0
031	Duval	51	46	66	58	48	53	76	75	104	85
033	Escambia	25	23	11	22	16	20	22	23	29	35
035	Flagler	2	1	2	1	1	3	0	1	6	3
037	Franklin	0	0	0	0	0	0	0	0	0	2
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

FLORIDA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
039	Gadsden	0	0	0	2	3	1	1	4	2	2
041	Gilchrist	0	0	1	1	0	2	0	1	0	0
043	Glades	0	0	0	0	0	2	3	2	0	1
045	Gulf	0	0	0	0	0	0	0	0	1	0
047	Hamilton	0	0	0	0	1	0	0	1	0	0
049	Hardee	0	0	0	0	1	0	1	2	2	2
051	Hendry	0	2	3	1	1	0	5	1	2	0
053	Hernando	12	12	9	10	8	5	7	6	13	13
055	Highlands	4	2	2	4	1	4	3	4	8	10
057	Hillsborough	47	73	80	70	79	73	91	96	123	112
059	Holmes	0	1	0	1	0	0	2	0	1	1
061	Indian River	17	19	10	9	11	14	16	17	21	11
063	Jackson	0	0	1	1	1	0	2	3	1	4
065	Jefferson	0	0	1	1	0	1	1	0	0	2
067	Lafayette	0	0	0	0	0	1	0	0	3	3
069	Lake	11	12	10	10	13	10	11	14	20	18
071	Lee	38	40	38	36	35	48	46	45	62	57
073	Leon	15	10	16	20	24	29	27	27	34	40
075	Levy	3	1	5	0	1	2	4	3	3	3
077	Liberty	0	0	0	0	0	0	0	0	0	1
079	Madison	0	0	0	0	0	0	0	1	0	0
081	Manatee	22	20	27	21	28	19	21	17	34	47
083	Marion	15	18	25	14	24	19	19	11	27	18
085	Martin	15	29	45	32	28	30	33	29	50	35
086	Miami-Dade	165	190	215	189	181	196	187	211	231	262
087	Monroe	9	12	9	10	15	9	12	14	11	12
089	Nassau	4	2	2	5	7	5	3	3	6	6
091	Okaloosa	10	12	9	5	8	5	12	12	15	26
093	Okeechobee	1	0	0	0	0	3	1	3	5	0
095	Orange	96	105	84	77	84	89	95	94	139	111
097	Osceola	7	7	6	11	10	6	4	6	7	9
099	Palm Beach	209	207	263	282	322	358	355	395	472	403
101	Pasco	14	21	26	23	20	15	23	17	26	32
103	Pinellas	170	172	155	114	155	181	139	167	220	229
105	Polk	24	34	27	28	35	26	28	36	38	33
107	Putnam	2	2	3	6	1	4	2	4	3	2
113	Santa Rosa	5	7	7	10	6	7	7	11	4	6
115	Sarasota	53	34	50	56	46	48	63	58	77	85
117	Seminole	83	57	87	69	45	56	59	51	63	62
109	St. Johns	1	5	10	11	12	14	11	15	18	28
111	St. Lucie	14	8	8	17	17	7	12	7	14	15
119	Sumter	1	1	0	0	1	1	0	0	0	1
121	Suwannee	0	2	2	0	0	0	0	0	2	0
123	Taylor	2	0	0	2	1	0	1	1	0	2
125	Union	0	0	0	0	0	0	0	0	0	1
127	Volusia	28	27	40	39	42	31	24	32	48	38
129	Wakulla	3	0	0	2	1	0	1	3	2	3
131	Walton	0	0	1	1	2	1	3	1	5	1
133	Washington	0	0	0	0	0	0	0	0	0	0
999	UNKNOWN	0	0	1	0	0	0	0	0	3	0
	TOTAL	1665	1688	1864	1778	1888	2001	2082	2159	2670	2602

GEORGIA

Alphabetic Code: GA
Numeric Code: 13

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Appling	1	0	0	1	2	0	0	1	0	1
003	Atkinson	0	0	0	0	0	0	0	0	0	0
005	Bacon	0	1	0	0	0	0	0	0	0	0
007	Baker	0	0	0	0	0	0	0	0	0	0
009	Baldwin	1	4	3	1	5	0	3	4	4	4
011	Banks	1	1	3	1	2	1	0	1	2	1
013	Barrow	1	3	2	0	1	1	0	2	2	4
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

GEORGIA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
015	Bartow	9	4	7	1	3	5	5	3	10	1
017	Ben Hill	1	0	0	0	0	0	0	0	0	0
019	Berrien	2	1	0	0	3	0	0	1	0	1
021	Bibb	7	8	10	6	9	8	7	6	7	9
023	Bleckley	0	0	1	0	0	0	0	0	0	0
025	Brantley	0	0	0	0	1	0	0	2	1	0
027	Brooks	2	1	2	0	0	2	1	2	1	2
029	Bryan	0	0	0	0	0	0	0	1	0	1
031	Bulloch	1	3	1	2	2	1	2	2	1	0
033	Burke	1	0	1	1	0	0	0	0	0	0
035	Butts	0	0	0	0	0	0	0	0	0	1
037	Calhoun	0	0	0	1	0	2	0	0	0	0
039	Camden	0	2	0	2	2	1	2	1	0	1
043	Candler	0	0	0	0	0	0	0	0	0	0
045	Carroll	9	6	9	8	10	7	6	7	3	2
047	Catoosa	3	3	3	2	0	1	3	6	2	2
049	Charlton	0	0	0	0	0	0	0	0	0	0
051	Chatham	15	10	15	10	10	13	10	13	17	14
053	Chattahoochee	0	0	0	0	0	0	0	1	0	0
055	Chattooga	0	0	0	0	1	2	1	1	4	2
057	Cherokee	10	11	7	13	14	14	29	20	24	14
059	Clarke	12	14	19	22	20	20	18	17	34	33
061	Clay	0	0	0	0	0	0	0	0	0	0
063	Clayton	6	8	11	8	3	9	12	5	12	5
065	Clinch	0	0	0	0	0	0	0	0	0	0
067	Cobb	87	79	99	86	134	138	152	132	168	160
069	Coffee	0	0	0	0	1	0	0	0	0	1
071	Colquitt	0	0	0	0	0	0	0	1	1	1
073	Columbia	3	6	7	5	5	7	7	4	5	7
075	Cook	0	0	1	0	1	0	0	0	0	0
077	Coweta	4	5	6	4	9	10	12	5	6	9
079	Crawford	0	0	0	0	0	0	0	0	0	0
081	Crisp	0	2	0	2	0	1	3	1	2	1
083	Dade	0	0	0	0	1	0	1	0	1	1
085	Dawson	0	2	2	3	0	6	2	6	5	4
087	Decatur	0	0	1	1	2	0	0	0	1	2
089	DeKalb	133	115	129	129	136	134	166	151	223	234
091	Dodge	0	0	0	0	0	0	0	0	0	0
093	Dooly	0	0	1	0	0	0	0	0	0	0
095	Dougherty	7	3	2	6	4	3	3	1	4	5
097	Douglas	3	4	4	7	8	11	5	10	23	21
099	Early	2	5	2	3	1	1	1	0	0	0
101	Echols	0	0	0	0	0	0	0	0	0	0
103	Effingham	0	0	0	0	1	1	1	2	2	0
105	Elbert	0	0	1	0	2	1	2	0	0	3
107	Emanuel	0	0	0	0	1	1	2	0	0	0
109	Evans	2	0	0	0	0	0	0	0	0	0
111	Fannin	0	0	0	0	1	0	0	0	0	0
113	Fayette	5	3	3	5	9	3	8	12	19	17
115	Floyd	10	4	3	3	6	7	6	12	4	7
117	Forsyth	4	4	7	8	9	14	20	14	19	30
119	Franklin	1	1	0	0	2	1	0	0	1	1
121	Fulton	80	84	77	105	115	134	147	161	230	250
123	Gilmer	1	0	0	2	3	3	3	0	3	1
125	Glascock	0	0	0	0	0	0	0	0	1	0
127	Glynn	6	6	4	2	1	4	7	5	6	5
129	Gordon	3	4	3	1	1	4	3	5	2	5
131	Grady	0	0	0	0	0	1	0	0	2	0
133	Greene	0	1	0	0	2	0	0	0	0	0
135	Gwinnett	93	116	95	128	121	137	158	191	252	250
137	Habersham	1	0	0	0	1	1	3	0	1	0
139	Hall	11	12	9	22	16	14	11	35	30	33
141	Hancock	0	0	0	0	0	0	0	0	0	0
143	Haralson	0	1	2	1	2	1	0	0	0	1
145	Harris	0	0	0	0	0	1	0	2	0	0
147	Hart	1	0	1	2	3	2	0	0	1	0
149	Heard	0	0	1	0	0	0	0	0	0	0
151	Henry	2	3	3	4	3	3	5	7	9	10
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

GEORGIA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
153	Houston	1	2	4	5	2	2	3	3	7	4
155	Irwin	1	0	0	0	0	0	0	1	0	1
157	Jackson	3	3	5	2	7	5	3	1	7	6
159	Jasper	1	1	1	1	0	0	0	0	0	2
161	Jeff Davis	1	1	0	0	1	0	0	0	0	0
163	Jefferson	2	0	1	3	2	1	1	2	1	1
165	Jenkins	0	1	0	0	1	0	1	0	0	0
167	Johnson	0	0	0	2	2	1	2	1	1	2
169	Jones	8	6	11	6	10	8	7	7	7	9
171	Lamar	0	1	0	0	1	1	0	0	1	2
173	Lanier	0	0	0	0	0	0	0	0	0	0
175	Laurens	1	2	1	1	2	1	2	4	5	3
177	Lee	1	0	1	1	2	0	2	0	1	1
179	Liberty	2	0	0	0	0	0	0	0	0	0
181	Lincoln	0	0	0	0	0	0	1	0	0	0
183	Long	0	0	0	0	0	0	0	0	0	0
185	Lowndes	0	4	1	2	1	5	5	5	3	3
187	Lumpkin	1	1	5	5	1	0	2	1	4	6
193	Macon	2	0	1	2	0	0	0	0	0	0
195	Madison	0	0	0	0	0	2	2	0	0	1
197	Marion	0	0	0	0	0	0	0	0	0	1
189	McDuffie	1	2	1	1	1	0	1	2	0	1
191	McIntosh	0	0	1	0	0	0	0	0	1	0
199	Meriwether	1	1	1	1	1	1	0	2	0	1
201	Miller	0	0	0	0	0	0	0	0	1	0
205	Mitchell	1	3	3	1	0	2	0	0	0	1
207	Monroe	1	0	0	0	1	1	1	0	1	0
209	Montgomery	0	1	1	0	1	1	1	0	2	1
211	Morgan	0	1	2	0	0	2	0	0	0	1
213	Murray	0	0	0	1	3	2	0	0	1	0
215	Muscogee	6	10	14	7	4	9	5	4	7	9
217	Newton	3	4	2	2	2	2	1	6	5	6
219	Oconee	3	2	3	1	4	4	0	2	8	6
221	Oglethorpe	0	0	0	0	0	0	0	0	0	0
223	Paulding	1	0	2	3	1	1	0	1	3	6
225	Peach	1	1	2	2	1	3	5	0	2	5
227	Pickens	0	1	0	0	0	0	1	2	0	4
229	Pierce	0	2	2	0	0	1	1	0	0	2
231	Pike	2	0	1	0	0	0	0	0	0	0
233	Polk	1	1	2	0	1	1	3	3	1	1
235	Pulaski	1	0	0	0	0	0	0	0	0	0
237	Putnam	0	0	0	0	0	0	0	1	0	1
239	Quitman	0	0	0	0	0	0	0	0	0	0
241	Rabun	0	1	0	1	2	0	1	1	1	1
243	Randolph	0	0	0	0	1	0	0	1	0	0
245	Richmond	10	9	21	10	17	10	10	8	12	11
247	Rockdale	10	13	8	8	14	17	28	12	25	17
249	Schley	0	0	0	0	1	0	0	0	0	0
251	Screven	0	0	0	0	0	0	0	3	0	0
253	Seminole	0	0	0	2	0	1	1	0	0	0
255	Spalding	0	1	0	2	3	1	2	0	0	2
257	Stephens	1	0	0	0	0	0	2	0	0	1
259	Stewart	0	0	1	0	0	0	0	0	0	0
261	Sumter	0	1	2	0	0	0	2	0	1	1
263	Talbot	0	0	1	0	0	0	0	0	0	0
265	Taliaferro	0	0	0	0	0	0	0	0	0	0
267	Tattnall	0	0	1	0	0	0	0	0	1	0
269	Taylor	1	0	0	0	0	0	0	1	0	0
271	Telfair	0	0	0	0	0	0	0	0	1	0
273	Terrell	0	0	0	0	0	0	0	0	0	0
275	Thomas	3	3	0	1	0	5	5	6	6	5
277	Tift	2	7	1	2	2	0	2	1	4	1
279	Toombs	0	1	1	0	1	1	2	0	2	1
281	Towns	0	0	0	0	1	0	0	0	1	0
283	Treutlen	0	0	0	0	0	0	0	0	0	0
285	Troup	7	6	1	6	8	14	14	9	7	18
287	Turner	0	1	0	2	0	0	0	0	0	1
289	Twiggs	0	0	0	0	0	0	0	0	0	0
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

GEORGIA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
291	Union	0	0	0	0	0	2	0	0	0	1
293	Upson	0	0	2	1	1	0	0	1	0	0
295	Walker	2	1	3	4	2	4	2	4	4	3
297	Walton	1	4	0	1	2	0	4	3	1	3
299	Ware	0	2	1	0	0	0	0	0	1	2
301	Warren	0	0	0	0	0	1	1	0	0	0
303	Washington	8	3	3	4	4	3	5	6	4	2
305	Wayne	0	0	0	0	0	0	1	0	1	1
307	Webster	0	0	0	0	0	0	0	0	0	0
309	Wheeler	0	0	0	0	0	0	0	0	0	0
311	White	3	0	0	1	2	0	0	1	0	1
313	Whitfield	2	5	10	7	6	7	12	15	8	11
315	Wilcox	1	0	1	0	0	0	0	0	0	0
317	Wilkes	0	0	0	0	1	0	0	1	1	0
319	Wilkinson	0	0	0	0	1	0	0	0	0	0
321	Worth	0	0	0	0	0	0	0	0	0	0
999	UNKNOWN	0	0	0	1	0	0	0	0	0	0
	TOTAL	638	649	682	710	810	853	971	974	1295	1327

HAWAII

Alphabetic Code: HI
Numeric Code: 15

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Hawaii	8	9	10	18	15	12	17	17	17	14
003	Honolulu	56	43	53	57	44	46	46	51	47	54
005	Kalawao	0	0	0	0	0	0	0	0	0	0
007	Kauai	2	2	1	1	2	0	6	3	9	2
009	Maui	6	7	7	4	13	8	12	7	12	13
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	72	61	71	80	74	66	81	78	85	83

IDAHO

Alphabetic Code: ID
Numeric Code: 16

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Ada	74	116	166	236	235	213	255	428	707	1012
003	Adams	0	0	0	0	0	1	0	0	0	0
005	Bannock	2	3	3	3	4	2	2	4	3	10
007	Bear Lake	0	1	1	0	1	2	0	0	1	0
009	Benewah	0	0	0	0	0	1	0	0	0	1
011	Bingham	5	3	2	2	6	3	0	4	5	4
013	Blaine	5	0	3	8	6	9	9	5	5	6
015	Boise	1	0	0	0	0	0	2	0	1	1
017	Bonner	3	7	3	7	4	3	5	2	2	7
019	Bonneville	24	29	25	21	21	20	18	31	33	31
021	Boundary	0	0	0	0	1	0	0	1	0	0
023	Butte	0	0	0	0	1	1	1	0	0	0
025	Camas	0	0	0	0	0	0	0	0	0	0
027	Canyon	8	7	4	11	10	7	16	24	41	81
029	Caribou	0	0	0	0	0	0	1	1	0	1
031	Cassia	2	1	1	0	0	0	1	1	1	0
033	Clark	0	0	0	0	0	0	0	0	0	0
035	Clearwater	2	0	1	1	0	1	1	1	1	0
037	Custer	0	0	0	0	0	0	0	0	1	0
039	Elmore	0	2	1	0	0	0	1	1	0	0
041	Franklin	1	0	0	0	0	1	2	0	2	0
043	Fremont	0	1	1	0	0	0	0	0	0	0
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

IDAHO		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
045	Gem	1	3	0	4	1	2	1	3	4	5
047	Gooding	1	0	0	1	0	1	1	0	0	1
049	Idaho	1	0	1	1	2	1	0	3	1	4
051	Jefferson	0	1	0	0	1	1	0	4	2	8
053	Jerome	0	0	0	1	5	2	2	0	0	1
055	Kootenai	11	11	5	9	6	6	17	19	13	16
057	Latah	7	9	6	11	10	10	15	15	15	9
059	Lemhi	2	0	0	0	0	0	0	0	0	0
061	Lewis	0	0	0	0	0	0	0	0	0	0
063	Lincoln	0	0	0	0	0	0	1	0	0	0
065	Madison	0	1	2	1	1	2	0	0	1	2
067	Minidoka	1	2	3	2	2	2	2	2	1	1
069	Nez Perce	1	0	2	4	1	2	1	0	1	0
071	Oneida	0	0	0	0	0	0	1	0	0	1
073	Owyhee	0	0	1	0	0	0	0	1	1	1
075	Payette	0	1	1	2	0	1	1	2	1	1
077	Power	3	3	4	4	4	5	1	5	7	7
079	Shoshone	0	0	1	2	2	0	4	1	2	1
081	Teton	0	1	0	0	0	0	0	0	0	0
083	Twin Falls	10	4	2	3	6	7	2	7	2	7
085	Valley	1	0	0	0	1	0	1	0	0	3
087	Washington	0	0	0	0	1	0	2	1	2	3
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	166	206	239	334	332	306	366	566	856	1225

ILLINOIS

Alphabetic Code: IL
Numeric Code: 17

Code	County	Name	Year of Utility Patent Grant									
			1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adams		11	6	10	7	9	7	1	7	18	19
003	Alexander		0	0	0	0	0	0	1	2	2	0
005	Bond		0	0	0	0	1	0	0	0	1	0
007	Boone		6	7	8	3	7	5	3	3	3	3
009	Brown		0	0	0	0	0	0	1	0	0	0
011	Bureau		5	2	0	6	0	2	7	5	7	7
013	Calhoun		0	0	1	0	0	0	1	1	1	0
015	Carroll		1	0	1	0	1	1	1	4	1	2
017	Cass		0	0	0	0	1	0	3	0	0	0
019	Champaign		28	26	24	47	43	40	49	35	56	58
021	Christian		4	3	4	3	3	6	2	10	5	5
023	Clark		3	1	1	1	0	0	0	0	0	0
025	Clay		0	0	0	0	0	0	0	0	1	0
027	Clinton		1	4	2	0	1	2	6	3	3	0
029	Coles		2	6	1	1	1	4	3	3	3	8
031	Cook		922	978	1015	971	919	981	996	888	1124	1113
033	Crawford		2	0	0	1	0	0	1	0	0	0
035	Cumberland		1	1	0	0	0	0	0	1	0	0
039	De Witt		0	0	1	0	1	2	1	0	2	1
037	DeKalb		9	4	6	13	11	12	16	15	21	24
041	Douglas		0	4	1	1	4	2	2	1	3	8
043	DuPage		528	584	601	599	600	565	586	555	711	755
045	Edgar		1	0	0	2	3	2	2	0	0	0
047	Edwards		4	1	1	0	3	0	2	0	0	1
049	Effingham		4	1	6	6	14	12	19	20	15	19
051	Fayette		0	0	0	0	0	1	0	1	0	0
053	Ford		1	0	2	1	1	0	0	0	0	2
055	Franklin		2	1	3	3	0	4	4	4	3	0
057	Fulton		3	2	0	0	0	1	1	0	3	0
059	Gallatin		0	1	0	0	0	0	0	0	0	0
061	Greene		0	1	1	0	0	0	0	0	0	1
063	Grundy		4	6	6	3	3	7	5	8	6	3
065	Hamilton		0	0	0	0	0	0	0	0	1	0
	<i>(continued)</i>											

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

ILLINOIS		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
067	Hancock	1	2	1	0	1	6	6	0	6	2
069	Hardin	2	1	1	0	0	0	0	0	0	0
071	Henderson	1	0	0	2	1	1	1	2	0	2
073	Henry	10	9	7	4	5	16	6	5	11	22
075	Iroquois	1	4	2	5	4	3	2	0	3	1
077	Jackson	9	4	4	3	5	1	1	2	1	4
079	Jasper	1	0	0	1	0	0	1	1	1	1
081	Jefferson	4	3	0	2	6	2	1	1	1	0
083	Jersey	1	2	1	1	2	1	2	2	2	2
085	Jo Daviess	1	4	3	2	7	2	3	2	0	4
087	Johnson	0	1	1	0	0	1	0	1	0	1
089	Kane	124	93	103	123	119	115	115	129	152	171
091	Kankakee	5	7	9	10	8	11	5	9	11	10
093	Kendall	7	8	7	16	13	8	10	10	18	12
095	Knox	3	6	2	5	8	3	6	3	7	11
099	La Salle	2	3	7	7	8	6	12	6	7	13
097	Lake	286	326	391	375	349	357	452	453	563	485
101	Lawrence	0	0	2	2	1	1	1	2	3	4
103	Lee	3	1	3	1	7	2	5	4	8	7
105	Livingston	2	1	3	1	1	5	4	4	3	11
107	Logan	1	2	3	1	1	0	1	2	2	7
115	Macon	15	10	8	10	18	24	14	21	30	15
117	Macoupin	4	1	8	1	2	2	3	5	1	3
119	Madison	27	35	48	42	52	63	90	145	120	84
121	Marion	1	3	1	1	0	1	1	1	3	1
123	Marshall	2	2	1	2	2	1	0	2	1	2
125	Mason	0	1	0	1	2	0	1	0	4	6
127	Massac	0	0	0	0	0	0	0	0	0	1
109	McDonough	2	2	0	1	0	3	3	3	2	3
111	McHenry	77	91	101	91	114	127	125	113	160	146
113	McLean	7	14	10	9	12	20	10	9	22	19
129	Menard	0	0	0	0	1	0	0	0	0	1
131	Mercer	2	4	4	3	3	0	2	2	3	4
133	Monroe	1	1	2	2	5	1	2	2	1	2
135	Montgomery	4	1	0	0	5	1	3	0	0	2
137	Morgan	3	1	1	4	1	0	0	1	2	4
139	Moultrie	0	1	0	2	5	3	2	0	3	3
141	Ogle	8	11	11	11	6	6	7	9	9	13
143	Peoria	39	53	54	82	77	100	114	107	116	125
145	Perry	0	2	0	0	0	0	0	0	1	0
147	Piatt	3	1	1	0	3	1	3	2	1	3
149	Pike	0	1	0	1	0	0	1	0	0	0
151	Pope	0	0	0	0	0	0	0	0	0	0
153	Pulaski	0	0	0	0	0	0	0	0	0	0
155	Putnam	0	0	0	1	1	0	1	1	0	1
157	Randolph	1	0	0	1	0	2	0	2	0	0
159	Richland	1	4	1	1	1	2	4	0	3	1
161	Rock Island	19	20	18	20	19	11	16	15	18	22
165	Saline	1	1	6	5	2	0	0	1	0	2
167	Sangamon	20	14	17	22	22	14	11	22	16	16
169	Schuyler	1	1	0	0	0	0	0	2	0	0
171	Scott	0	0	1	2	1	1	1	1	1	1
173	Shelby	2	1	0	1	4	4	8	2	2	5
163	St. Clair	19	10	20	25	19	18	17	19	12	12
175	Stark	0	0	1	0	0	0	0	0	0	1
177	Stephenson	10	9	17	13	15	18	14	21	12	11
179	Tazewell	23	25	10	12	21	19	43	39	43	35
181	Union	2	1	0	0	1	0	0	0	0	1
183	Vermilion	5	19	14	6	7	7	4	2	5	15
185	Wabash	1	1	0	3	1	1	0	3	0	0
187	Warren	0	0	2	0	0	0	0	0	1	0
189	Washington	0	1	0	2	0	1	2	1	1	3
191	Wayne	1	1	2	1	0	0	1	0	0	3
193	White	1	1	1	0	1	0	0	1	1	0
195	Whiteside	9	8	11	4	9	6	10	6	4	10
197	Will	129	142	159	145	132	131	171	145	204	220
199	Williamson	7	3	4	2	4	1	7	6	4	5
201	Winnebago	155	179	116	80	89	80	100	84	119	115
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

ILLINOIS		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
203	Woodford	3	3	9	11	6	12	15	13	18	26
999	UNKNOWN	0	0	0	0	0	1	0	0	0	0
	TOTAL	2611	2795	2904	2849	2835	2879	3153	3012	3732	3741

INDIANA

**Alphabetic Code: IN
Numeric Code: 18**

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adams	1	5	4	2	2	6	2	10	7	9
003	Allen	77	92	73	79	72	62	79	86	112	124
005	Bartholomew	26	40	22	13	32	39	30	34	48	65
007	Benton	1	0	1	1	2	0	0	0	2	0
009	Blackford	1	1	1	2	2	0	0	1	2	0
011	Boone	16	14	17	7	18	19	18	16	21	28
013	Brown	1	0	2	0	0	1	0	1	1	2
015	Carroll	2	5	3	6	3	4	2	1	1	2
017	Cass	0	3	2	2	5	7	1	2	4	4
019	Clark	9	7	7	8	7	7	10	6	8	10
021	Clay	2	4	4	4	5	2	1	3	3	6
023	Clinton	0	3	0	1	1	1	4	3	2	4
025	Crawford	0	0	1	0	0	1	0	0	1	0
027	Daviess	0	2	1	1	0	0	0	1	2	0
029	Dearborn	2	7	4	7	4	6	6	3	5	9
031	Decatur	1	2	4	0	2	5	3	4	1	2
033	De Kalb	12	14	13	15	7	6	7	13	5	8
035	Delaware	7	8	4	11	12	16	14	4	10	2
037	Dubois	4	3	4	3	3	2	3	2	4	7
039	Elkhart	37	46	42	58	37	36	48	36	51	58
041	Fayette	6	5	9	5	1	8	8	5	7	5
043	Floyd	6	3	8	7	9	2	5	8	10	15
045	Fountain	0	1	0	2	3	1	1	0	2	6
047	Franklin	4	5	6	7	8	15	13	13	11	7
049	Fulton	3	4	3	2	0	2	6	1	2	1
051	Gibson	0	2	1	5	3	2	0	3	5	2
053	Grant	5	4	6	2	6	1	1	4	5	5
055	Greene	2	1	0	2	1	1	2	1	2	0
057	Hamilton	43	51	48	58	68	92	133	128	138	123
059	Hancock	12	8	7	6	8	7	15	18	12	19
061	Harrison	1	0	1	1	5	5	0	1	1	1
063	Hendricks	13	16	8	9	26	20	7	21	21	22
065	Henry	1	3	2	3	4	2	3	2	1	0
067	Howard	27	31	32	22	31	50	63	46	46	51
069	Huntington	9	6	6	8	7	10	5	13	4	6
071	Jackson	1	2	1	4	4	2	2	3	1	5
073	Jasper	0	1	0	1	1	2	0	0	1	2
075	Jay	0	0	1	2	2	0	2	1	1	1
077	Jefferson	10	7	4	3	3	3	5	3	2	6
079	Jennings	3	2	0	2	1	1	0	3	2	2
081	Johnson	14	17	19	17	23	32	40	31	44	45
083	Knox	0	2	0	4	1	3	3	1	0	1
085	Kosciusko	24	29	29	21	29	32	40	32	37	32
087	Lagrange	3	2	3	0	1	2	2	2	3	2
089	Lake	36	31	22	32	32	24	36	34	37	47
091	La Porte	25	27	26	24	17	17	12	20	15	30
093	Lawrence	3	4	1	3	4	1	4	1	3	3
095	Madison	25	21	20	21	22	21	17	19	15	11
097	Marion	182	179	196	199	195	217	295	292	286	284
099	Marshall	5	2	3	4	7	7	6	8	10	9
101	Martin	1	0	0	0	0	0	0	0	0	0
103	Miami	1	4	1	1	2	4	2	4	1	3
105	Monroe	10	17	16	22	17	14	17	13	20	28
107	Montgomery	3	5	1	2	2	3	4	9	8	2

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

INDIANA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
109	Morgan	7	15	6	11	8	17	11	7	9	9
111	Newton	1	2	0	0	1	0	0	0	1	0
113	Noble	1	4	11	3	9	3	12	2	7	10
115	Ohio	0	0	0	0	0	0	2	0	1	0
117	Orange	0	0	1	0	1	0	1	1	0	0
119	Owen	0	1	0	0	1	0	2	1	3	3
121	Parke	2	0	1	1	1	1	0	1	0	0
123	Perry	0	0	1	1	0	0	0	1	0	0
125	Pike	0	1	0	3	0	2	0	1	0	0
127	Porter	17	11	17	18	15	14	18	10	18	19
129	Posey	26	12	15	6	7	13	6	5	6	8
131	Pulaski	1	1	2	2	2	0	4	1	4	1
133	Putnam	1	5	0	2	3	4	2	1	5	3
135	Randolph	0	1	1	1	3	2	2	1	3	1
137	Ripley	2	1	3	4	1	3	5	6	10	6
139	Rush	0	0	0	0	0	2	0	0	0	0
141	St. Joseph	51	72	81	69	63	54	62	45	76	67
143	Scott	0	2	1	0	0	1	0	0	0	5
145	Shelby	6	6	4	6	7	7	6	6	10	3
147	Spencer	1	0	0	2	3	5	8	4	6	3
149	Starke	0	0	0	0	0	0	0	0	1	2
151	Steuben	2	6	4	5	6	8	6	10	7	6
153	Sullivan	1	0	1	0	1	0	1	1	0	0
155	Switzerland	0	0	0	0	0	0	0	0	0	1
157	Tippecanoe	50	43	34	41	58	59	55	81	63	70
159	Tipton	1	3	7	2	3	2	5	2	10	6
161	Union	2	2	0	2	0	4	0	1	1	2
163	Vanderburgh	45	46	16	29	32	42	39	19	29	38
165	Vermillion	0	1	1	1	0	0	1	0	1	1
167	Vigo	14	20	7	9	8	8	7	9	12	13
169	Wabash	4	5	8	7	7	8	7	4	6	4
171	Warren	0	1	1	0	1	0	2	0	3	3
173	Warrick	4	5	3	7	7	8	12	7	13	15
175	Washington	0	1	0	1	1	1	0	1	1	4
177	Wayne	5	7	6	7	17	20	13	12	16	8
179	Wells	4	3	2	3	3	2	3	4	4	4
181	White	8	2	2	6	6	5	5	0	4	7
183	Whitley	7	3	5	2	9	2	8	10	8	8
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	940	1030	930	972	1041	1120	1282	1220	1381	1446

IOWA

Alphabetic Code: IA
Numeric Code: 19

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adair	0	1	1	0	0	1	1	0	0	1
003	Adams	0	0	0	0	0	0	1	1	1	1
005	Allamakee	0	0	2	0	0	0	0	0	2	1
007	Appanoose	1	1	1	0	2	3	1	3	1	2
009	Audubon	0	0	0	0	0	0	0	0	0	0
011	Benton	1	1	0	0	1	1	3	0	2	0
013	Black Hawk	20	17	18	17	13	18	12	7	14	18
015	Boone	0	6	2	0	3	5	2	5	5	4
017	Bremer	2	1	0	1	0	0	3	1	0	4
019	Buchanan	2	0	0	0	0	1	1	2	2	0
021	Buena Vista	0	1	1	2	2	1	0	1	1	1
023	Butler	2	0	2	1	2	0	2	2	2	2
025	Calhoun	0	0	0	1	0	0	0	0	0	2
027	Carroll	3	0	2	2	2	1	0	0	0	0
029	Cass	1	3	1	1	1	3	0	3	3	4
031	Cedar	0	0	0	2	1	0	2	1	2	3
033	Cerro Gordo	2	2	2	9	4	4	5	3	4	2
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

IOWA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
035	Cherokee	2	1	0	0	0	1	0	0	1	1
037	Chickasaw	1	1	1	1	0	2	0	1	1	2
039	Clarke	0	1	0	0	1	0	2	0	0	0
041	Clay	0	2	0	1	1	0	0	0	3	6
043	Clayton	0	0	1	0	0	1	0	1	4	2
045	Clinton	3	6	4	2	4	3	2	0	4	7
047	Crawford	0	0	1	0	0	1	0	0	1	1
049	Dallas	5	9	5	6	11	12	13	17	33	39
051	Davis	1	1	0	1	0	0	1	1	0	2
053	Decatur	0	0	1	2	0	1	0	1	1	0
055	Delaware	2	3	3	0	3	1	1	1	1	3
057	Des Moines	5	5	2	6	9	13	15	4	10	11
059	Dickinson	4	2	7	3	1	2	2	1	4	7
061	Dubuque	13	24	11	11	5	9	7	8	13	12
063	Emmet	0	1	1	1	0	1	2	1	2	3
065	Fayette	0	2	0	1	1	2	0	0	3	2
067	Floyd	3	3	2	3	3	1	0	0	2	1
069	Franklin	5	2	5	2	0	4	4	1	4	1
071	Fremont	0	1	0	0	0	0	0	1	0	0
073	Greene	0	0	0	2	1	0	0	0	0	3
075	Grundy	4	1	1	0	0	0	0	4	1	1
077	Guthrie	1	2	1	0	0	2	2	0	3	3
079	Hamilton	0	1	0	2	3	3	5	0	3	2
081	Hancock	4	5	4	4	2	2	3	0	2	2
083	Hardin	3	2	0	0	5	1	5	1	4	1
085	Harrison	0	1	2	1	1	1	1	1	0	1
087	Henry	0	1	2	2	2	2	1	2	4	4
089	Howard	0	0	0	0	0	0	1	0	1	2
091	Humboldt	2	0	6	0	4	1	0	2	3	1
093	Ida	4	7	5	3	1	2	1	1	1	5
095	Iowa	2	5	2	0	18	5	5	4	8	8
097	Jackson	1	1	0	0	0	4	1	0	1	2
099	Jasper	3	5	10	9	13	15	2	14	14	21
101	Jefferson	4	2	7	4	3	8	4	6	3	7
103	Johnson	21	15	29	25	16	33	28	24	47	51
105	Jones	2	0	0	0	2	2	1	1	2	5
107	Keokuk	1	0	1	0	1	0	0	1	1	0
109	Kossuth	0	1	3	2	3	3	0	2	4	6
111	Lee	1	1	1	2	1	0	3	0	6	3
113	Linn	67	60	59	72	74	56	73	70	92	141
115	Louisa	0	0	0	0	2	0	0	0	2	1
117	Lucas	2	0	1	0	0	0	0	2	1	0
119	Lyon	1	1	2	2	1	1	2	1	2	1
121	Madison	2	0	1	1	1	0	0	1	2	1
123	Mahaska	2	5	5	7	7	6	3	4	7	9
125	Marion	4	6	8	11	8	3	6	8	8	11
127	Marshall	3	7	6	10	4	9	9	10	11	14
129	Mills	1	0	0	0	1	0	0	1	0	0
131	Mitchell	1	0	0	0	0	0	0	0	0	1
133	Monona	4	0	0	0	0	1	0	0	1	1
135	Monroe	1	0	0	0	0	0	0	0	1	2
137	Montgomery	0	0	0	0	1	1	0	0	0	1
139	Muscatine	5	4	6	8	9	15	10	4	13	5
141	O'Brien	1	1	1	1	1	0	1	1	2	0
143	Osceola	0	0	0	0	0	0	0	0	0	2
145	Page	1	1	2	3	5	2	4	4	3	4
147	Palo Alto	2	1	0	1	2	1	0	0	0	0
149	Plymouth	3	1	2	0	1	1	1	0	1	3
151	Pocahontas	1	1	1	1	2	2	3	0	2	0
153	Polk	40	38	42	37	41	54	52	55	91	90
155	Pottawattamie	6	13	6	1	2	7	6	5	3	7
157	Poweshiek	2	1	0	1	2	1	0	0	4	2
159	Ringgold	0	1	0	0	0	0	1	0	1	0
161	Sac	1	1	0	0	0	0	0	1	1	0
163	Scott	14	12	20	16	15	16	24	22	21	38
165	Shelby	0	0	1	0	0	1	1	0	2	3
167	Sioux	1	3	1	3	0	3	6	1	8	7
169	Story	30	46	37	46	46	51	63	56	87	74
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

IOWA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
171	Tama	1	0	1	3	2	3	2	0	0	1
173	Taylor	0	1	0	0	0	0	0	1	1	1
175	Union	0	0	1	1	4	0	0	0	4	1
177	Van Buren	0	0	0	0	1	0	0	0	1	0
179	Wapello	5	7	3	1	3	6	2	7	11	7
181	Warren	3	6	1	3	4	4	2	3	4	16
183	Washington	1	1	2	1	0	0	0	1	2	9
185	Wayne	1	0	0	0	1	0	2	1	1	1
187	Webster	3	6	2	2	4	0	5	2	7	4
189	Winnebago	1	2	1	2	1	0	0	0	1	1
191	Winneshieki	0	0	2	0	0	0	0	0	1	1
193	Woodbury	7	5	3	5	3	3	12	9	18	19
195	Worth	1	0	2	0	0	1	0	0	1	0
197	Wright	0	0	0	0	1	1	0	1	1	0
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	349	378	369	371	395	425	435	401	653	752

KANSAS

Alphabetic Code: KS
Numeric Code: 20

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Allen	1	2	2	3	1	0	1	0	0	1
003	Anderson	0	0	0	0	0	0	0	0	0	0
005	Atchison	0	0	0	0	0	0	0	4	3	4
007	Barber	0	0	0	0	0	0	0	0	2	14
009	Barton	1	3	1	2	2	3	0	5	4	0
011	Bourbon	0	0	0	1	0	2	1	0	0	0
013	Brown	2	3	5	3	3	1	2	3	4	2
015	Butler	0	1	2	2	3	3	0	3	6	11
017	Chase	0	0	0	0	0	0	0	0	0	0
019	Chautauqua	0	0	0	0	0	0	0	0	0	0
021	Cherokee	3	2	0	0	1	2	2	1	2	1
023	Cheyenne	0	0	0	1	0	1	0	1	1	1
025	Clark	1	0	0	0	1	0	0	0	0	0
027	Clay	0	1	0	0	0	0	0	0	0	0
029	Cloud	0	1	0	0	0	0	2	0	0	0
031	Coffey	2	2	0	0	1	0	0	0	0	0
033	Comanche	0	0	1	0	0	0	0	0	0	0
035	Cowley	2	2	0	1	1	1	0	2	2	7
037	Crawford	1	3	1	2	3	0	5	0	4	1
039	Decatur	0	1	0	0	0	0	1	0	0	1
041	Dickinson	0	1	1	1	1	1	2	2	0	1
043	Doniphan	0	0	2	0	0	1	0	0	0	0
045	Douglas	19	13	18	23	16	10	17	14	23	26
047	Edwards	0	0	0	0	0	0	0	0	0	0
049	Elk	0	0	0	0	0	0	0	1	0	0
051	Ellis	5	2	3	1	3	2	2	3	2	2
053	Ellsworth	1	0	0	0	1	0	0	0	0	0
055	Finney	1	1	4	5	5	3	6	2	3	5
057	Ford	0	1	4	1	1	4	2	1	3	3
059	Franklin	0	1	1	2	1	1	0	0	1	1
061	Geary	0	0	0	0	1	0	1	2	0	1
063	Gove	0	0	1	0	0	2	0	0	0	0
065	Graham	0	0	0	0	0	0	0	0	0	0
067	Grant	0	1	0	0	0	0	0	0	0	2
069	Gray	0	1	1	0	4	2	0	2	0	3
071	Greeley	0	0	0	0	0	0	1	0	0	0
073	Greenwood	0	0	0	1	1	0	0	0	1	2
075	Hamilton	0	0	0	0	0	0	0	0	0	0
077	Harper	1	1	0	2	2	3	1	1	1	3
079	Harvey	8	3	10	5	9	6	6	5	13	8
081	Haskell	0	0	0	0	0	0	0	0	1	0
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

KANSAS		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
083	Hodgeman	0	0	0	0	0	0	0	0	0	0
085	Jackson	0	0	0	0	0	0	0	0	0	0
087	Jefferson	1	1	0	0	0	0	0	0	0	0
089	Jewell	1	1	0	0	3	2	5	1	3	1
091	Johnson	68	76	87	69	81	87	92	96	115	152
093	Kearny	0	0	0	0	0	0	0	0	0	0
095	Kingman	0	1	2	0	2	0	3	0	1	0
097	Kiowa	0	1	0	0	0	0	0	0	0	0
099	Labette	2	0	0	1	1	1	0	1	1	0
101	Lane	0	2	1	0	0	0	0	0	1	1
103	Leavenworth	1	3	4	1	3	2	1	0	1	3
105	Lincoln	0	0	0	0	0	0	0	0	0	1
107	Linn	0	0	0	0	0	0	0	0	0	0
109	Logan	0	0	0	0	0	0	0	1	0	0
111	Lyon	7	4	5	4	2	3	7	3	6	6
113	McPherson	5	3	1	9	5	3	4	5	6	2
115	Marion	0	2	0	1	0	0	1	0	1	1
117	Marshall	1	2	2	3	4	1	1	1	4	1
119	Meade	1	1	0	0	0	0	0	0	0	0
121	Miami	2	3	0	5	2	4	4	1	3	3
123	Mitchell	0	1	1	2	1	3	0	3	1	1
125	Montgomery	2	6	0	4	5	3	10	0	2	1
127	Morris	0	3	1	2	0	1	2	1	0	0
129	Morton	0	0	0	0	0	0	0	0	0	0
131	Nemaha	2	2	2	1	1	1	2	3	3	3
133	Neosho	0	0	1	0	0	0	0	0	2	1
135	Ness	0	1	1	1	0	0	0	0	0	0
137	Norton	0	1	0	0	1	0	0	0	0	0
139	Osage	0	0	0	0	3	0	0	0	0	1
141	Osborne	1	1	0	1	5	0	0	0	1	1
143	Ottawa	0	0	0	0	0	0	0	1	1	0
145	Pawnee	1	2	2	0	0	0	1	1	2	1
147	Phillips	0	0	0	0	0	0	0	0	0	0
149	Pottawatomie	1	5	6	6	10	8	5	7	4	9
151	Pratt	2	1	0	0	0	0	1	0	0	2
153	Rawlins	1	0	0	1	0	0	0	0	0	0
155	Reno	2	2	8	3	6	3	5	3	6	2
157	Republic	0	1	0	1	1	0	1	0	3	1
159	Rice	0	0	1	0	1	3	1	1	0	3
161	Riley	1	5	6	7	11	8	6	6	4	6
163	Rooks	0	1	0	1	0	0	0	2	2	0
165	Rush	0	1	0	0	0	0	0	0	0	0
167	Russell	0	1	1	0	1	0	0	0	1	0
169	Saline	5	4	6	9	2	4	12	10	4	7
171	Scott	0	0	0	0	0	1	0	0	1	0
173	Sedgwick	69	52	55	40	43	44	53	40	63	83
175	Seward	1	1	0	0	0	0	1	0	0	0
177	Shawnee	6	6	8	8	10	11	9	12	15	16
179	Sheridan	0	1	0	0	0	0	0	0	0	0
181	Sherman	0	0	0	0	0	0	0	0	0	1
183	Smith	0	0	0	1	0	0	0	0	2	0
185	Stafford	0	0	0	0	0	0	0	2	1	0
187	Stanton	0	0	0	0	0	0	0	0	0	0
189	Stevens	1	0	0	0	0	0	0	1	1	2
191	Sumner	0	1	3	3	0	1	0	0	3	5
193	Thomas	0	1	0	1	2	0	0	1	0	1
195	Trego	1	0	0	0	0	0	0	0	0	0
197	Wabaunsee	0	0	0	0	1	1	0	1	2	2
199	Wallace	0	0	0	0	2	0	0	0	1	1
201	Washington	0	0	0	0	0	1	0	0	1	0
203	Wichita	1	0	0	0	0	1	1	0	0	0
205	Wilson	2	0	0	0	0	0	2	0	1	0
207	Woodson	0	0	0	0	0	0	0	0	0	0
209	Wyandotte	9	4	6	2	4	5	11	7	8	13
999	UNKNOWN	0	0	0	1	0	0	0	0	0	1
	TOTAL	245	250	267	244	274	250	293	263	353	435

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

KENTUCKY

Alphabetic Code: KY
Numeric Code: 21

Code	County	Name	Year of Utility Patent Grant									
			1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001		Adair	0	1	0	0	1	0	0	0	0	0
003		Allen	0	0	0	0	0	1	2	1	2	1
005		Anderson	0	1	0	0	0	1	1	0	0	0
007		Ballard	3	2	0	0	1	0	1	1	0	0
009		Barren	1	1	3	1	1	1	1	0	0	0
011		Bath	0	0	0	0	0	0	0	1	0	1
013		Bell	2	0	0	0	1	1	0	0	0	0
015		Boone	10	6	8	9	11	19	15	6	14	14
017		Bourbon	0	1	2	0	1	1	1	1	3	0
019		Boyd	7	6	2	4	5	3	4	4	4	6
021		Boyle	0	7	0	2	3	1	2	2	2	3
023		Bracken	0	0	3	0	1	3	0	0	1	1
025		Breathitt	0	0	1	0	0	0	0	0	0	0
027		Breckinridge	2	0	0	0	3	1	0	0	0	0
029		Bullitt	2	3	4	1	5	1	4	1	6	5
031		Butler	0	0	0	0	0	0	0	0	0	0
033		Caldwell	0	1	0	0	0	0	1	0	0	0
035		Calloway	0	0	1	0	2	2	2	1	0	1
037		Campbell	8	6	11	8	5	7	8	12	9	14
039		Carlisle	0	0	0	0	0	0	0	0	0	0
041		Carroll	1	1	0	0	1	0	1	0	2	1
043		Carter	0	0	1	0	0	0	1	1	1	1
045		Casey	0	0	0	0	0	0	0	0	0	0
047		Christian	3	4	8	2	1	4	3	1	2	2
049		Clark	4	3	0	7	3	0	3	2	7	4
051		Clay	0	0	0	0	0	0	0	0	0	0
053		Clinton	0	1	1	1	0	0	0	0	0	0
055		Crittenden	0	0	0	0	0	1	0	0	0	0
057		Cumberland	0	0	0	0	0	0	0	0	0	0
059		Daviess	4	4	4	1	8	4	4	3	2	6
061		Edmonson	1	1	0	0	0	0	0	0	0	0
063		Elliott	1	0	0	0	0	0	0	0	0	0
065		Estill	0	0	0	2	2	1	0	1	1	0
067		Fayette	38	49	54	45	50	45	75	77	94	136
069		Fleming	1	0	0	0	0	0	0	0	0	0
071		Floyd	0	1	0	1	0	3	1	0	0	0
073		Franklin	0	2	0	3	1	3	4	1	3	4
075		Fulton	2	0	0	0	0	0	0	0	0	0
077		Gallatin	0	0	0	0	0	0	0	0	0	0
079		Garrard	3	0	0	1	0	0	2	0	1	4
081		Grant	0	0	1	0	0	0	0	2	0	0
083		Graves	1	1	0	1	0	2	5	2	0	2
085		Grayson	0	0	3	0	1	2	0	0	1	2
087		Green	0	0	0	0	0	0	0	0	0	0
089		Greenup	1	3	6	4	2	1	2	0	3	5
091		Hancock	0	0	0	0	0	1	0	0	0	0
093		Hardin	3	1	0	1	1	0	2	5	8	8
095		Harlan	0	1	0	1	0	0	1	1	1	0
097		Harrison	1	1	2	0	0	0	0	1	0	0
099		Hart	1	1	0	1	0	0	0	1	0	2
101		Henderson	2	5	8	7	5	3	1	3	2	3
103		Henry	0	1	0	0	0	0	0	1	1	0
105		Hickman	0	1	0	0	0	0	0	0	0	0
107		Hopkins	0	1	2	3	0	3	1	2	4	1
109		Jackson	0	0	0	0	0	0	0	0	1	1
111		Jefferson	122	115	77	107	77	79	90	90	89	119
113		Jessamine	6	6	5	7	4	7	6	7	5	14
115		Johnson	0	0	0	0	0	0	1	0	0	0
117		Kenton	13	16	6	11	17	6	10	12	16	15
119		Knott	0	1	0	0	0	0	0	0	1	0
121		Knox	0	0	1	0	2	1	1	1	0	2
123		Larue	0	1	1	3	4	3	2	1	2	3

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

KENTUCKY		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
125	Laurel	2	1	1	0	0	1	1	1	1	1
127	Lawrence	1	0	0	0	0	0	0	0	1	0
129	Lee	0	0	0	0	0	0	0	0	0	0
131	Leslie	0	0	0	0	0	0	0	0	0	0
133	Letcher	0	0	0	0	0	0	0	0	0	0
135	Lewis	0	0	0	0	0	0	1	1	0	1
137	Lincoln	0	0	0	0	2	1	1	0	1	0
139	Livingston	0	4	0	1	0	0	0	0	0	0
141	Logan	0	1	0	0	0	0	0	0	0	1
143	Lyon	0	0	0	0	0	1	1	0	0	0
145	McCracken	2	1	1	0	5	8	3	4	4	6
147	McCreary	0	0	0	0	0	0	0	0	1	0
149	McLean	0	0	0	0	0	0	0	0	1	1
151	Madison	3	5	1	2	5	4	4	4	7	3
153	Magoffin	0	0	1	0	1	0	0	0	0	0
155	Marion	0	0	1	0	1	1	0	0	1	0
157	Marshall	1	0	1	0	0	0	1	0	2	0
159	Martin	0	0	0	0	0	0	0	0	0	0
161	Mason	2	1	2	1	3	0	2	0	2	1
163	Meade	0	1	0	0	0	0	1	2	0	1
165	Menifee	0	0	0	0	0	0	0	0	0	0
167	Mercer	0	5	5	1	1	0	2	0	0	1
169	Metcalfe	0	0	1	0	0	0	0	1	0	1
171	Monroe	0	1	0	0	0	1	0	0	0	0
173	Montgomery	0	1	0	0	1	1	1	0	1	0
175	Morgan	0	0	0	0	0	0	1	0	0	0
177	Muhlenberg	1	0	0	1	1	1	0	1	1	1
179	Nelson	2	2	1	1	1	0	2	0	1	9
181	Nicholas	0	0	0	0	0	0	0	0	0	0
183	Ohio	0	0	1	1	1	0	0	0	0	2
185	Oldham	2	5	1	2	3	7	4	6	7	7
187	Owen	1	0	0	0	1	0	0	1	0	1
189	Owsley	0	0	0	0	0	0	0	0	0	0
191	Pendleton	0	5	5	6	1	0	4	0	1	0
193	Perry	0	1	0	0	0	0	0	0	0	0
195	Pike	1	5	0	1	2	4	1	2	1	1
197	Powell	0	1	0	2	0	2	2	2	2	0
199	Pulaski	0	1	0	0	1	0	0	0	0	0
201	Robertson	0	0	0	0	0	0	0	0	0	0
203	Rockcastle	0	0	1	0	0	0	0	0	0	0
205	Rowan	0	0	0	0	0	0	0	1	0	0
207	Russell	0	0	0	1	1	0	0	0	0	0
209	Scott	4	0	3	2	6	4	4	3	7	8
211	Shelby	2	4	4	3	2	3	3	2	2	5
213	Simpson	2	1	1	1	3	1	0	0	0	0
215	Spencer	2	1	0	1	0	0	0	0	2	1
217	Taylor	1	4	2	3	0	0	3	3	1	1
219	Todd	1	1	0	0	0	1	2	1	0	1
221	Trigg	1	0	0	1	0	0	0	0	0	1
223	Trimble	0	0	0	0	1	0	0	0	0	0
225	Union	2	1	0	2	1	3	1	1	1	0
227	Warren	3	3	3	4	8	9	9	6	6	8
229	Washington	0	0	0	2	0	1	0	0	0	0
231	Wayne	0	0	0	0	0	0	0	0	0	0
233	Webster	0	1	1	0	1	0	0	0	0	0
235	Whitley	0	0	1	1	2	1	1	0	0	1
237	Wolfe	0	0	0	0	0	0	0	0	0	0
239	Woodford	4	8	7	5	11	7	6	3	6	10
999	UNKNOWN	0	0	0	0	0	0	0	0	1	0
	TOTAL	283	321	260	279	285	273	319	290	349	455

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

LOUISIANA

Alphabetic Code: LA
Numeric Code: 22

Code	Parish Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Acadia	2	3	2	3	3	1	4	2	6	4
003	Allen	0	1	0	1	0	0	0	2	1	0
005	Ascension	5	4	5	9	7	4	6	5	6	4
007	Assumption	0	0	0	0	0	0	0	1	1	0
009	Avoyelles	1	0	1	1	0	0	0	0	0	1
011	Beauregard	0	1	1	1	1	1	1	1	1	1
013	Bienville	0	0	0	1	0	0	0	0	0	2
015	Bossier	22	17	15	12	14	13	11	14	13	7
017	Caddo	11	10	8	10	8	11	10	10	10	6
019	Calcasieu	12	13	13	11	15	12	10	4	14	18
021	Caldwell	0	0	0	0	0	0	0	1	0	1
023	Cameron	0	1	0	0	1	0	0	0	0	1
025	Catahoula	0	0	1	0	0	0	0	1	0	0
027	Claiborne	0	0	0	1	0	0	1	1	1	2
029	Concordia	1	0	0	0	1	1	0	2	0	0
031	De Soto	0	0	1	1	0	0	0	1	0	0
033	East Baton Rouge	180	194	171	158	138	134	110	119	141	146
035	East Carroll	1	1	0	0	0	0	1	1	1	1
037	East Feliciana	0	1	2	1	1	1	0	2	2	3
039	Evangeline	0	2	1	1	0	0	2	0	2	1
041	Franklin	0	0	0	1	0	1	1	0	1	2
043	Grant	0	0	0	0	1	0	1	2	4	1
045	Iberia	4	5	17	8	6	5	5	5	9	7
047	Iberville	1	0	3	4	1	2	0	0	1	2
049	Jackson	2	0	0	0	1	0	0	0	2	2
051	Jefferson	43	40	44	54	54	35	57	36	47	61
053	Jefferson Davis	0	0	1	0	0	0	1	3	0	1
055	Lafayette	31	33	26	27	23	31	31	26	56	42
057	Lafourche	6	7	6	4	7	2	3	6	5	10
059	La Salle	0	0	0	1	1	0	0	0	0	2
061	Lincoln	1	2	3	3	2	1	3	3	5	3
063	Livingston	4	5	4	3	4	9	7	5	9	9
065	Madison	0	1	0	0	0	0	0	1	0	2
067	Morehouse	0	0	1	0	1	0	0	0	0	0
069	Natchitoches	0	2	1	0	1	0	2	1	0	0
071	Orleans	52	48	58	41	32	34	44	47	48	42
073	Ouachita	16	14	15	11	14	6	15	8	9	6
075	Plaquemines	2	1	4	1	2	1	3	1	3	5
077	Pointe Coupee	0	1	3	1	0	0	0	0	2	0
079	Rapides	9	7	7	3	7	4	11	5	10	8
081	Red River	0	0	0	0	0	0	1	0	0	0
083	Richland	3	1	3	2	6	2	2	0	0	0
085	Sabine	2	1	0	0	1	1	0	1	0	0
087	St. Bernard	1	3	3	2	1	1	3	2	3	1
089	St. Charles	0	4	4	4	2	5	4	0	1	2
091	St. Helena	0	0	0	0	0	0	0	1	0	0
093	St. James	0	0	0	0	0	0	0	0	2	1
095	St. John the Baptist	2	4	3	7	1	1	5	6	1	0
097	St. Landry	2	1	2	2	3	2	2	2	3	4
099	St. Martin	5	5	3	2	3	4	8	7	9	10
101	St. Mary	3	2	0	5	4	4	2	3	4	6
103	St. Tammany	19	15	30	18	10	18	19	14	26	24
105	Tangipahoa	4	4	5	2	4	4	2	6	4	2
107	Tensas	0	0	0	0	0	0	0	0	0	0
109	Terrebonne	11	9	10	9	8	10	4	10	13	20
111	Union	1	1	0	1	1	2	1	0	0	1
113	Vermilion	2	1	4	1	6	1	4	5	4	3
115	Vernon	2	2	2	2	4	1	1	2	1	3
117	Washington	0	1	2	0	0	2	0	1	2	4
119	Webster	1	3	1	6	4	1	1	1	2	1
121	West Baton Rouge	4	1	1	0	1	3	1	0	2	1
123	West Carroll	0	0	0	1	0	0	1	1	0	1

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

LOUISIANA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
125	West Feliciana	1	1	2	1	1	0	1	0	0	0
127	Winn	1	0	0	0	1	1	0	0	1	0
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	470	473	489	438	407	372	402	378	488	487

MAINE

**Alphabetic Code: ME
Numeric Code: 23**

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Androscoggin	9	5	8	7	3	4	5	3	6	2
003	Aroostook	3	3	3	3	2	7	7	2	1	1
005	Cumberland	35	28	35	48	42	31	33	40	45	38
007	Franklin	0	0	1	2	1	1	1	0	2	3
009	Hancock	7	4	2	7	5	3	3	5	8	9
011	Kennebec	5	5	6	4	8	8	5	5	6	5
013	Knox	6	4	3	5	6	5	7	5	8	6
015	Lincoln	1	1	5	2	2	4	5	2	4	3
017	Oxford	1	2	4	2	2	3	0	2	4	2
019	Penobscot	5	3	2	1	6	2	4	2	8	5
021	Piscataquis	0	0	1	1	2	1	0	1	0	0
023	Sagadahoc	0	0	3	2	0	3	1	1	3	4
025	Somerset	2	0	1	0	3	3	3	0	1	2
027	Waldo	3	5	1	2	2	0	0	0	2	5
029	Washington	1	2	0	2	0	3	0	0	1	2
031	York	25	32	32	27	36	35	24	25	23	34
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	103	94	107	115	120	113	98	93	122	121

MARYLAND

**Alphabetic Code: MD
Numeric Code: 24**

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Allegany	1	3	4	1	6	4	1	3	2	1
003	Anne Arundel	70	93	83	92	111	76	105	80	104	84
005	Baltimore	94	81	89	75	105	86	99	141	143	164
009	Calvert	4	4	7	3	3	3	8	4	3	11
011	Caroline	1	1	1	0	1	1	3	1	0	1
013	Carroll	19	21	16	23	18	14	27	20	42	44
015	Cecil	14	20	28	25	20	23	34	30	37	32
017	Charles	10	12	8	16	16	8	3	6	12	20
019	Dorchester	3	2	3	2	2	2	2	4	3	1
021	Frederick	27	28	34	37	28	42	40	60	62	60
023	Garrett	1	5	1	1	0	2	2	4	3	2
025	Harford	25	47	41	35	46	28	35	46	56	64
027	Howard	78	83	106	118	106	113	107	119	140	152
029	Kent	1	2	2	2	3	1	1	1	1	3
031	Montgomery	306	287	319	355	380	365	441	445	551	580
033	Prince George's	68	74	91	83	85	93	86	55	97	107
035	Queen Anne's	4	4	7	3	5	7	3	8	12	14
037	St. Mary's	1	2	3	3	2	5	2	5	4	6
039	Somerset	0	1	0	0	1	0	0	0	1	0
041	Talbot	3	5	4	4	1	6	1	5	2	1
043	Washington	8	7	12	12	6	5	4	9	13	6
045	Wicomico	4	2	3	7	9	1	7	7	4	15
047	Worcester	4	0	3	2	2	1	0	0	5	3
510	Baltimore (city)	79	68	97	99	104	101	94	121	150	142
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

MARYLAND		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
999	(continued) UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	825	852	962	998	1060	987	1105	1174	1447	1513

MASSACHUSETTS

Alphabetic Code: MA
Numeric Code: 25

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Barnstable	29	42	41	45	32	40	46	50	49	70
003	Berkshire	35	49	34	34	23	12	28	28	30	27
005	Bristol	62	77	65	78	122	87	95	100	139	135
007	Dukes	0	0	2	1	2	3	1	1	5	4
009	Essex	196	219	199	224	252	230	264	264	327	338
011	Franklin	11	10	10	9	9	6	10	13	13	14
013	Hampden	54	57	58	52	67	58	60	44	72	66
015	Hampshire	22	32	43	20	34	37	32	26	37	35
017	Middlesex	930	909	1069	1033	1036	995	1102	1199	1568	1651
019	Nantucket	0	1	0	0	3	0	2	3	2	0
021	Norfolk	275	273	295	303	325	275	313	384	481	485
023	Plymouth	67	72	66	66	61	76	77	74	123	110
025	Suffolk	84	79	105	132	132	123	148	151	237	216
027	Worcester	191	216	241	211	237	220	274	241	333	370
999	UNKNOWN	0	0	0	1	0	1	0	0	0	0
	TOTAL	1956	2036	2228	2209	2335	2163	2452	2578	3416	3521

MICHIGAN

Alphabetic Code: MI
Numeric Code: 26

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Alcona	0	2	0	0	0	1	0	0	0	0
003	Alger	0	2	1	1	0	1	1	1	0	0
005	Allegan	37	49	49	43	48	41	47	50	66	74
007	Alpena	2	0	1	0	0	1	0	1	2	5
009	Antrim	3	2	1	1	2	0	4	0	2	5
011	Arenac	5	4	3	2	3	0	6	2	2	0
013	Baraga	1	0	0	0	2	1	0	0	0	1
015	Barry	3	7	4	4	4	11	5	2	8	6
017	Bay	141	145	153	127	121	114	123	99	117	103
019	Benzie	0	1	0	0	0	0	0	2	1	3
021	Berrien	43	59	46	61	57	39	37	31	44	39
023	Branch	4	4	2	1	7	3	9	4	4	8
025	Calhoun	25	20	28	31	25	22	17	14	16	24
027	Cass	9	10	19	14	8	8	10	9	9	12
029	Charlevoix	1	3	3	3	2	4	2	3	5	8
031	Cheboygan	1	2	1	0	2	3	0	2	2	2
033	Chippewa	0	1	1	1	0	0	3	3	3	6
035	Clare	2	2	2	3	5	5	1	4	5	4
037	Clinton	2	1	3	8	5	5	7	9	13	7
039	Crawford	0	1	1	0	1	0	0	0	1	1
041	Delta	4	2	5	1	5	3	7	4	7	0
043	Dickinson	0	3	1	1	4	2	1	0	1	2
045	Eaton	14	18	15	8	9	13	16	9	13	11
047	Emmet	3	4	2	0	3	5	2	2	2	6
049	Genesee	48	55	85	55	66	58	60	66	61	87
051	Gladwin	2	4	7	9	2	0	2	1	0	7
053	Gogebic	4	2	0	1	1	1	1	0	0	1
055	Grand Traverse	6	5	7	7	3	4	9	7	9	10

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

MICHIGAN		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
057	Gratiot	2	2	6	3	4	3	2	2	2	5
059	Hillsdale	1	2	6	2	1	5	5	2	5	5
061	Houghton	11	14	13	8	7	4	5	4	8	6
063	Huron	2	2	1	1	4	3	6	3	0	1
065	Ingham	28	29	57	40	37	44	61	52	90	75
067	Ionia	4	3	4	5	4	5	2	2	3	4
069	Iosco	3	3	2	2	0	3	1	0	2	2
071	Iron	1	2	1	2	1	0	0	1	1	0
073	Isabella	5	7	8	6	9	6	5	6	10	6
075	Jackson	31	36	46	36	37	27	28	31	40	29
077	Kalamazoo	72	70	90	96	79	81	95	65	94	110
079	Kalkaska	0	0	0	0	0	1	1	2	1	1
081	Kent	88	96	113	107	125	105	120	119	167	159
083	Keweenaw	0	0	0	0	0	0	0	0	0	0
085	Lake	0	0	0	0	0	0	0	0	0	0
087	Lapeer	18	22	18	22	22	21	21	36	31	39
089	Leelanau	7	6	5	6	5	5	6	10	11	10
091	Lenawee	18	27	23	39	28	20	22	12	24	30
093	Livingston	30	49	32	42	56	56	89	63	75	81
095	Luce	1	1	0	0	0	0	0	0	0	0
097	Mackinac	0	0	0	0	2	0	0	0	0	0
099	Macomb	236	271	245	267	255	232	240	201	275	266
101	Manistee	0	2	5	0	2	5	2	5	7	6
103	Marquette	1	3	2	1	3	5	2	6	5	4
105	Mason	1	3	1	2	0	1	6	3	2	3
107	Mecosta	2	5	5	1	2	1	4	3	4	4
109	Menominee	0	1	1	1	1	1	3	5	0	3
111	Midland	135	146	147	123	112	110	113	92	99	81
113	Missaukee	1	1	0	0	0	1	1	1	1	0
115	Monroe	14	21	21	22	35	24	42	27	47	55
117	Montcalm	8	4	8	10	6	8	6	5	10	4
119	Montmorency	0	0	1	1	1	1	1	0	0	0
121	Muskegon	19	35	19	20	31	30	21	28	24	32
123	Newaygo	1	1	1	3	1	0	4	2	3	1
125	Oakland	672	730	735	809	757	759	891	772	958	1005
127	Oceana	0	3	4	8	7	11	17	16	14	16
129	Ogemaw	1	1	1	0	2	0	0	0	1	3
131	Ontonagon	0	0	1	0	0	0	1	0	0	0
133	Osceola	4	7	5	4	7	5	8	1	7	5
135	Oscoda	2	0	1	1	1	1	6	3	9	12
137	Otsego	4	0	1	0	3	1	2	3	4	1
139	Ottawa	76	80	86	87	87	84	87	98	111	107
141	Presque Isle	4	0	3	2	1	3	2	1	2	3
143	Roscommon	0	2	0	0	0	2	0	1	1	2
145	Saginaw	42	36	40	30	47	37	41	36	32	46
147	St. Clair	41	43	30	26	24	22	34	30	35	33
149	St. Joseph	8	12	14	11	14	11	6	8	9	8
151	Sanilac	3	3	6	4	4	7	6	6	3	2
153	Schoolcraft	0	0	0	0	0	0	0	0	1	0
155	Shiawassee	7	18	10	9	11	9	5	3	7	12
157	Tuscola	11	16	13	17	7	23	21	19	12	17
159	Van Buren	8	5	4	4	12	6	14	10	10	9
161	Washtenaw	188	197	171	202	247	223	258	284	289	377
163	Wayne	361	377	386	418	444	426	499	434	569	566
165	Wexford	3	10	8	3	6	3	4	2	3	8
999	UNKNOWN	0	2	1	0	0	0	0	1	3	1
	TOTAL	2535	2814	2841	2885	2936	2786	3186	2841	3514	3687

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

MINNESOTA

Alphabetic Code: MN
Numeric Code: 27

Code	County	Name	Year of Utility Patent Grant									
			1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001		Aitkin	1	2	1	0	0	1	1	1	3	0
003		Anoka	61	68	64	84	112	85	84	104	118	138
005		Becker	3	0	2	2	2	1	1	0	1	2
007		Beltrami	2	3	1	3	3	1	0	0	3	6
009		Benton	2	4	3	5	5	4	3	3	9	4
011		Big Stone	0	0	0	0	0	0	0	0	0	0
013		Blue Earth	3	6	4	6	7	8	10	4	13	5
015		Brown	0	2	1	1	0	1	2	2	1	0
017		Carlton	3	2	1	2	2	1	3	1	2	0
019		Carver	15	12	13	25	26	18	21	26	41	41
021		Cass	1	1	2	0	1	4	2	3	3	9
023		Chippewa	0	2	2	0	0	1	3	3	1	3
025		Chisago	5	7	6	5	10	7	7	7	16	15
027		Clay	2	4	6	5	1	9	7	5	6	4
029		Clearwater	1	0	0	0	0	0	1	0	0	0
031		Cook	0	1	0	0	0	0	0	0	0	0
033		Cottonwood	0	0	0	0	1	2	1	0	0	1
035		Crow Wing	7	7	2	4	7	10	5	10	10	13
037		Dakota	99	93	83	124	117	139	141	111	180	170
039		Dodge	4	5	10	3	1	5	5	2	12	11
041		Douglas	6	4	5	8	5	9	3	5	5	8
043		Faribault	2	2	0	1	4	2	0	1	2	2
045		Fillmore	2	1	2	5	4	2	2	4	3	4
047		Freeborn	4	3	2	2	3	1	3	3	2	0
049		Goodhue	10	2	13	13	8	8	10	19	9	15
051		Grant	0	1	1	1	0	0	2	0	2	0
053		Hennepin	492	471	494	526	569	487	570	594	771	863
055		Houston	3	6	1	4	3	2	3	5	7	6
057		Hubbard	0	1	0	2	1	0	0	0	0	0
059		Isanti	6	5	6	3	2	3	3	2	3	3
061		Itasca	1	7	6	6	2	2	1	3	3	1
063		Jackson	1	0	0	1	0	0	0	1	2	4
065		Kanabec	3	4	1	2	0	0	2	2	2	3
067		Kandiyohi	7	2	5	1	5	9	6	4	4	10
069		Kittson	0	0	1	0	0	0	1	0	0	0
071		Koochiching	1	2	1	0	0	0	0	0	1	1
073		Lac qui Parle	0	0	0	1	0	0	0	1	0	1
075		Lake	3	3	2	1	1	2	1	1	1	0
077		Lake of the Woods	1	0	0	1	0	1	0	0	0	0
079		Le Sueur	6	4	5	5	7	4	9	9	11	10
081		Lincoln	1	1	2	0	0	0	0	0	0	0
083		Lyon	2	0	0	1	0	0	1	3	1	0
085		McLeod	0	4	8	4	4	14	4	9	15	31
087		Mahnomen	0	0	0	0	0	0	2	0	0	0
089		Marshall	2	2	1	3	0	1	1	0	0	1
091		Martin	1	0	4	5	2	3	2	2	2	3
093		Meeker	2	2	1	2	3	5	3	3	5	7
095		Mille Lacs	1	2	0	3	3	1	3	0	1	6
097		Morrison	1	0	2	2	0	1	0	0	0	2
099		Mower	3	2	0	1	3	2	2	6	6	6
101		Murray	0	0	0	0	0	1	0	0	0	0
103		Nicollet	4	3	1	5	5	4	5	4	7	3
105		Nobles	1	1	2	4	3	4	1	5	3	2
107		Norman	0	1	0	0	0	0	0	0	0	0
109		Olmsted	51	37	38	64	85	77	102	116	209	229
111		Otter Tail	3	0	1	4	4	1	4	7	2	3
113		Pennington	1	6	3	2	0	3	3	3	2	0
115		Pine	0	0	0	0	1	0	1	0	0	1
117		Pipestone	0	0	0	0	0	0	1	0	0	1
119		Polk	3	3	3	2	2	2	3	2	3	1
121		Pope	1	4	1	3	0	2	0	2	3	2
123		Ramsey	288	304	312	298	331	326	319	310	446	426

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

MINNESOTA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
125	Red Lake	0	0	3	0	0	0	0	0	0	0
127	Redwood	0	1	0	0	0	1	2	4	3	8
129	Renville	1	1	0	1	0	0	0	0	1	9
131	Rice	2	4	6	4	5	8	12	7	13	9
133	Rock	0	1	0	0	0	0	0	0	0	0
135	Roseau	0	2	4	2	4	2	2	5	2	5
137	St. Louis	10	15	13	15	20	15	17	13	18	26
139	Scott	16	28	31	21	27	30	31	30	35	56
141	Sherburne	5	7	16	15	7	12	12	6	27	20
143	Sibley	0	0	1	0	2	1	1	2	1	2
145	Stearns	5	7	5	5	7	5	9	9	12	9
147	Steele	13	12	16	13	11	16	13	8	26	18
149	Stevens	0	0	1	1	2	0	1	1	2	1
151	Swift	1	0	2	1	3	0	2	0	2	2
153	Todd	2	2	1	0	1	1	2	0	0	0
155	Traverse	0	1	0	2	0	0	3	0	1	0
157	Wabasha	1	1	0	2	2	2	4	7	9	10
159	Wadena	1	2	0	0	1	1	0	1	0	0
161	Waseca	3	7	4	4	2	4	4	8	5	5
163	Washington	117	121	144	183	241	272	275	306	332	362
165	Watonwan	0	0	0	0	1	0	1	0	0	0
167	Wilkin	1	1	0	1	1	0	0	0	2	0
169	Winona	7	6	5	6	9	4	5	5	5	7
171	Wright	15	22	19	21	22	11	9	15	30	28
173	Yellow Medicine	0	1	1	0	1	1	0	1	0	0
999	UNKNOWN	0	0	0	0	1	0	0	0	1	0
	TOTAL	1322	1351	1397	1552	1725	1662	1775	1836	2479	2654

MISSISSIPPI

Alphabetic Code: MS
Numeric Code: 28

Code	County	Name	Year of Utility Patent Grant									
			1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adams		1	1	1	0	2	1	1	0	1	1
003	Alcorn		1	0	4	1	1	0	1	1	0	1
005	Amite		0	0	0	0	0	1	0	0	0	0
007	Attala		0	0	2	0	0	0	0	0	0	0
009	Benton		0	0	0	0	0	0	0	0	0	0
011	Bolivar		0	0	0	1	2	0	1	2	0	8
013	Calhoun		1	2	1	0	0	0	1	0	1	0
015	Carroll		0	0	0	0	0	0	0	0	1	1
017	Chickasaw		2	1	1	1	1	0	0	4	1	0
019	Choctaw		0	0	0	1	0	0	0	0	4	2
021	Claiborne		0	0	0	0	0	0	0	0	0	0
023	Clarke		0	0	1	0	2	0	0	1	0	0
025	Clay		0	0	0	1	0	0	1	2	0	1
027	Coahoma		2	0	1	2	0	0	0	0	0	1
029	Copiah		0	1	0	0	1	1	0	0	0	1
031	Covington		0	0	0	1	0	0	0	0	1	1
033	DeSoto		7	0	4	2	4	3	9	6	5	3
035	Forrest		3	7	4	3	2	3	4	5	4	5
037	Franklin		0	0	0	0	0	0	0	0	0	0
039	George		1	0	0	0	1	0	0	0	0	0
041	Greene		0	0	0	0	0	1	0	0	2	2
043	Grenada		0	0	0	0	0	0	1	2	2	0
045	Hancock		1	1	2	1	4	2	2	7	4	2
047	Harrison		11	10	7	11	7	9	10	12	11	12
049	Hinds		7	8	7	4	8	4	4	8	15	13
051	Holmes		0	0	1	0	1	0	0	0	0	0
053	Humphreys		1	0	0	0	0	0	0	0	0	0
055	Issaquena		0	0	0	0	0	0	0	0	0	0
057	Itawamba		0	0	1	0	0	0	0	0	1	0
059	Jackson		7	6	7	8	8	5	4	2	5	8
	<i>(continued)</i>											

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

MISSISSIPPI		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
061	Jasper	0	0	0	0	0	0	1	1	1	0
063	Jefferson	0	0	1	0	0	0	0	0	0	0
065	Jefferson Davis	0	0	0	0	0	0	0	0	0	0
067	Jones	2	3	6	2	0	3	2	1	4	4
069	Kemper	1	1	1	0	0	0	0	0	1	0
071	Lafayette	5	1	2	5	2	3	6	6	2	3
073	Lamar	3	8	6	3	2	3	4	5	4	5
075	Lauderdale	3	3	5	5	3	6	6	9	4	2
077	Lawrence	0	0	0	0	0	0	0	1	0	0
079	Leake	0	0	1	0	0	1	0	0	1	3
081	Lee	5	10	7	8	9	8	18	8	7	10
083	Leflore	3	0	0	1	2	1	0	0	0	0
085	Lincoln	0	0	0	0	0	0	1	0	1	0
087	Lowndes	3	5	6	3	8	8	10	10	12	11
089	Madison	4	5	3	1	3	3	3	5	11	8
091	Marion	0	0	1	2	0	0	0	0	1	4
093	Marshall	0	1	0	1	0	0	0	0	1	0
095	Monroe	2	3	2	0	1	0	0	1	1	0
097	Montgomery	0	0	0	0	0	0	0	0	1	2
099	Neshoba	1	0	1	1	0	0	0	1	0	0
101	Newton	3	0	1	1	0	0	1	2	1	1
103	Noxubee	0	0	0	0	0	1	1	0	0	0
105	Oktibbeha	7	5	8	3	4	6	8	15	21	30
107	Panola	1	0	0	0	0	1	0	0	0	0
109	Pearl River	6	1	1	2	4	5	1	0	2	4
111	Perry	1	0	1	0	1	0	1	1	0	1
113	Pike	0	0	0	0	0	1	0	0	2	2
115	Pontotoc	0	2	0	1	0	0	1	0	0	0
117	Prentiss	0	0	0	0	0	1	1	1	1	1
119	Quitman	0	0	0	0	1	0	0	0	0	0
121	Rankin	7	6	4	7	14	8	9	8	21	14
123	Scott	1	0	0	1	1	0	0	0	2	0
125	Sharkey	0	0	0	0	0	0	0	0	0	0
127	Simpson	0	0	0	0	0	1	1	1	2	0
129	Smith	1	0	2	0	0	1	0	1	0	0
131	Stone	0	0	0	2	1	2	0	0	0	1
133	Sunflower	0	1	1	0	1	0	0	1	0	1
135	Tallahatchie	0	0	0	0	0	0	0	0	0	0
137	Tate	3	2	3	1	2	0	0	1	0	1
139	Tippah	0	1	0	1	0	0	0	1	1	0
141	Tishomingo	0	0	2	0	0	0	0	3	0	2
143	Tunica	0	1	0	0	0	0	0	0	0	0
145	Union	1	1	1	2	3	1	2	0	0	1
147	Walthall	0	0	2	2	0	0	1	0	0	1
149	Warren	4	1	5	7	12	9	14	17	6	8
151	Washington	6	2	5	3	1	1	5	6	6	7
153	Wayne	0	0	1	1	0	2	1	1	1	0
155	Webster	0	1	0	1	0	1	0	0	1	0
157	Wilkinson	0	0	0	0	0	1	0	0	0	0
159	Winston	0	1	1	2	1	0	1	1	0	1
161	Yalobusha	0	0	0	0	0	1	0	0	0	0
163	Yazoo	0	0	1	0	1	0	0	0	0	0
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	118	102	125	106	121	109	138	160	177	190

MISSOURI

Alphabetic Code: MO
Numeric Code: 29

Code	County	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adair	0	1	0	1	0	0	1	1	1	2
003	Andrew	0	0	0	1	0	0	1	0	1	0
005	Atchison	0	0	0	0	0	0	0	0	0	1
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

MISSOURI		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
007	Audrain	4	6	3	3	3	1	2	3	1	2
009	Barry	2	1	1	0	2	1	1	4	1	1
011	Barton	0	0	0	0	0	1	0	1	2	1
013	Bates	1	0	1	0	0	1	0	0	0	1
015	Benton	1	0	0	0	0	0	0	2	1	0
017	Bollinger	0	0	0	0	0	0	1	1	0	0
019	Boone	18	20	20	16	13	22	17	32	24	26
021	Buchanan	4	4	2	7	8	8	8	4	5	11
023	Butler	0	1	0	0	1	1	0	1	1	1
025	Caldwell	0	0	0	0	0	0	0	0	0	0
027	Callaway	7	2	7	2	2	5	3	4	7	4
029	Camden	2	2	3	2	1	2	3	3	2	1
031	Cape Girardeau	2	1	2	2	1	1	3	1	3	5
033	Carroll	0	2	0	0	0	0	0	0	2	2
035	Carter	0	0	0	0	0	1	0	0	0	0
037	Cass	18	16	17	16	16	18	20	14	23	18
039	Cedar	0	1	0	1	1	1	1	0	1	0
041	Chariton	0	0	0	0	0	1	1	0	0	0
043	Christian	23	22	16	12	16	16	13	15	15	11
045	Clark	0	0	0	0	0	0	0	0	0	0
047	Clay	16	25	18	18	13	20	20	16	25	26
049	Clinton	1	0	0	1	0	1	1	0	1	2
051	Cole	1	1	3	1	2	3	2	3	5	3
053	Cooper	0	0	0	0	0	0	0	0	0	0
055	Crawford	1	2	2	1	2	3	1	0	4	4
057	Dade	1	1	1	0	0	3	3	1	0	1
059	Dallas	0	2	0	0	0	2	2	0	0	0
061	Daviess	1	0	0	0	0	0	0	0	0	0
063	DeKalb	0	0	0	0	0	2	0	0	0	0
065	Dent	0	0	0	0	0	0	1	0	3	1
067	Douglas	2	0	0	1	0	0	0	0	1	1
069	Dunklin	1	0	0	0	0	1	0	0	1	0
071	Franklin	10	10	9	5	12	11	8	10	7	18
073	Gasconade	0	1	0	0	1	2	1	1	1	1
075	Gentry	0	0	0	0	0	0	0	0	0	2
077	Greene	22	18	16	13	19	18	18	16	14	16
079	Grundy	0	2	1	0	0	0	1	0	0	0
081	Harrison	0	0	0	0	0	0	0	0	3	12
083	Henry	0	1	2	0	3	2	0	0	2	3
085	Hickory	0	0	0	0	0	0	0	0	0	0
087	Holt	0	0	0	0	0	0	0	0	0	0
089	Howard	1	0	0	0	3	0	0	0	0	1
091	Howell	0	0	1	0	2	1	0	2	0	0
093	Iron	1	0	2	0	0	1	0	0	0	2
095	Jackson	29	26	31	28	28	28	31	29	48	35
097	Jasper	14	10	11	7	8	7	14	17	13	12
099	Jefferson	15	17	11	16	16	11	11	11	15	20
101	Johnson	1	2	2	2	0	4	4	3	1	2
103	Knox	0	0	0	1	0	0	0	0	0	0
105	Laclede	0	3	3	3	4	1	1	1	3	1
107	Lafayette	1	1	5	2	2	1	1	0	2	4
109	Lawrence	1	1	1	1	1	1	3	1	0	2
111	Lewis	0	1	0	0	0	0	0	0	0	1
113	Lincoln	0	1	0	0	0	2	1	1	3	5
115	Linn	0	0	0	0	0	0	1	0	0	0
117	Livingston	0	1	0	0	0	0	0	0	0	0
119	McDonald	0	1	1	0	1	0	0	0	1	1
121	Macon	0	0	0	1	0	0	0	0	0	0
123	Madison	0	0	0	0	0	0	0	0	0	0
125	Maries	1	1	0	0	0	0	0	1	3	0
127	Marion	1	1	1	3	0	0	0	2	2	2
129	Mercer	0	1	0	0	0	0	0	0	0	0
131	Miller	0	2	1	2	1	0	2	0	3	1
133	Mississippi	1	0	1	0	0	0	1	0	0	2
135	Moniteau	2	0	1	1	2	1	1	0	1	0
137	Monroe	0	0	1	0	0	0	0	0	1	0
139	Montgomery	0	0	0	0	0	0	1	0	1	0
141	Morgan	0	0	1	0	0	0	0	0	1	1
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

MISSOURI		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
143	New Madrid	2	0	0	3	1	0	1	1	0	0
145	Newton	4	5	3	5	5	4	8	5	5	6
147	Nodaway	3	0	0	0	0	0	0	3	0	0
149	Oregon	0	0	0	0	0	0	0	0	0	0
151	Osage	0	1	1	1	0	0	0	1	0	1
153	Ozark	0	0	1	0	0	0	0	0	0	1
155	Pemiscot	1	1	0	0	1	1	1	0	1	0
157	Perry	4	2	1	0	0	0	0	0	0	0
159	Pettis	0	1	5	1	1	0	1	0	3	4
161	Phelps	9	11	5	9	8	9	9	14	12	9
163	Pike	0	2	0	0	0	1	0	0	0	0
165	Platte	10	15	13	11	13	14	14	12	14	19
167	Polk	1	2	3	0	0	1	0	0	1	1
169	Pulaski	0	1	1	0	1	5	2	0	0	0
171	Putnam	0	0	0	0	0	0	0	0	0	0
173	Ralls	0	1	1	2	0	0	0	0	2	1
175	Randolph	2	2	3	4	0	2	4	4	3	6
177	Ray	1	0	0	0	1	1	0	1	0	2
179	Reynolds	0	0	0	0	0	0	0	0	0	0
181	Ripley	0	0	0	1	0	0	1	0	0	0
183	St. Charles	28	52	39	43	48	53	68	74	109	104
185	St. Clair	0	0	0	0	1	0	2	0	1	0
186	Ste. Genevieve	1	1	0	0	0	1	0	2	1	2
187	St. Francois	3	7	1	1	3	3	2	5	5	1
189	St. Louis	203	243	257	205	207	207	185	247	256	297
195	Saline	1	1	2	1	2	0	1	0	6	1
197	Schuyler	0	0	0	1	1	0	0	0	0	0
199	Scotland	0	0	0	1	0	0	0	0	1	0
201	Scott	3	1	1	2	2	0	2	2	2	3
203	Shannon	0	0	0	0	1	0	0	0	0	0
205	Shelby	0	0	0	0	0	0	0	0	0	0
207	Stoddard	0	1	0	1	1	1	2	0	3	2
209	Stone	3	2	3	1	1	1	0	1	2	3
211	Sullivan	0	0	0	0	0	0	0	0	0	0
213	Taney	0	1	0	2	1	3	2	3	2	2
215	Texas	1	1	1	0	1	0	0	1	0	2
217	Vernon	2	0	0	1	2	3	1	0	1	0
219	Warren	4	2	7	2	1	5	0	1	3	1
221	Washington	1	2	2	0	0	0	0	1	1	0
223	Wayne	0	0	1	2	1	1	1	3	0	1
225	Webster	1	0	0	0	0	1	1	2	3	3
227	Worth	0	0	0	0	1	0	1	1	0	0
229	Wright	1	0	0	1	1	0	1	0	2	0
510	St. Louis (city)	127	159	159	169	147	152	146	151	212	198
999	UNKNOWN	0	0	1	0	0	0	0	0	0	1
	TOTAL	622	728	709	640	637	675	661	736	906	940

MONTANA

Alphabetic Code: MT
Numeric Code: 30

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Beaverhead	1	1	0	0	1	0	1	0	2	1
003	Big Horn	0	0	0	0	0	0	2	1	0	0
005	Blaine	0	0	0	0	1	0	1	1	0	0
007	Broadwater	1	0	0	1	0	0	2	0	3	0
009	Carbon	0	1	0	1	1	1	1	0	0	0
011	Carter	0	2	0	0	0	0	0	0	0	0
013	Cascade	4	4	4	3	3	2	2	2	4	5
015	Chouteau	2	0	0	0	0	0	0	1	1	1
017	Custer	0	0	0	0	1	1	0	1	1	1
019	Daniels	0	0	2	0	0	0	0	0	0	0
021	Dawson	1	1	0	0	2	0	0	1	2	0
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

MONTANA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
023	Deer Lodge	0	0	1	1	0	1	0	0	1	3
025	Fallon	0	0	0	0	0	0	0	0	1	0
027	Fergus	0	1	0	2	0	1	0	1	0	0
029	Flathead	1	7	11	12	8	15	19	17	17	19
031	Gallatin	26	24	35	31	25	50	25	30	46	42
033	Garfield	0	0	0	0	0	0	0	0	0	0
035	Glacier	1	1	0	0	0	2	0	0	1	0
037	Golden Valley	0	0	0	0	0	0	0	0	1	0
039	Granite	0	0	0	0	0	0	0	0	0	0
041	Hill	0	0	2	0	0	0	2	0	1	0
043	Jefferson	2	0	2	1	0	0	0	0	0	0
045	Judith Basin	0	1	0	0	0	0	0	0	1	0
047	Lake	1	2	2	2	5	3	5	3	2	7
049	Lewis and Clarke	4	3	1	1	0	2	5	4	3	8
051	Liberty	0	0	0	0	0	0	0	0	0	0
053	Lincoln	0	2	0	1	2	1	2	0	1	1
055	McCone	0	0	0	0	1	0	0	0	0	0
057	Madison	0	0	0	0	2	1	0	0	1	0
059	Meagher	0	0	0	0	0	0	0	0	0	0
061	Mineral	0	0	1	0	1	0	0	0	0	0
063	Missoula	7	10	8	11	14	14	11	13	16	12
065	Musselshell	0	0	2	0	0	0	0	1	0	1
067	Park	0	2	0	0	0	0	3	0	1	0
069	Petroleum	0	0	0	0	0	0	0	0	0	1
071	Phillips	0	1	0	0	0	0	0	0	1	1
073	Pondera	0	2	0	0	0	0	1	0	0	0
075	Powder River	0	0	1	0	0	0	0	0	0	0
077	Powell	1	0	0	0	1	1	1	2	1	0
079	Prairie	0	0	0	0	0	0	0	0	0	0
081	Ravalli	1	4	2	3	7	5	2	3	6	5
083	Richland	0	1	0	2	1	1	1	0	1	0
085	Roosevelt	0	0	0	1	1	1	2	0	1	1
087	Rosebud	0	0	0	3	0	0	1	0	3	2
089	Sanders	0	0	0	0	0	0	0	0	0	2
091	Sheridan	0	0	0	0	0	0	1	0	0	0
093	Silver Bow	1	0	1	3	0	4	7	2	4	7
095	Stillwater	6	4	2	2	2	1	4	2	2	0
097	Sweet Grass	0	0	0	0	0	0	1	0	0	0
099	Teton	0	0	0	0	0	0	0	0	0	0
101	Toole	0	0	0	0	0	0	1	0	0	0
103	Treasure	0	0	0	0	0	0	0	0	0	0
105	Valley	0	0	0	0	0	2	4	2	1	1
107	Wheatland	0	0	0	0	0	0	0	0	0	0
109	Wibaux	0	0	0	0	0	0	0	0	0	0
111	Yellowstone	8	8	10	9	5	11	5	2	5	6
113	Yellowstone National Park	0	0	0	0	0	0	0	0	0	0
999	UNKNOWN	0	0	0	0	0	1	0	0	0	0
	TOTAL	68	82	87	90	84	121	112	89	131	127

NEBRASKA

Alphabetic Code: NE
Numeric Code: 31

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adams	3	1	3	4	1	2	0	2	4	1
003	Antelope	0	0	4	2	2	0	0	1	0	0
005	Arthur	0	0	0	0	0	0	0	0	0	0
007	Banner	0	0	0	0	0	0	0	0	0	0
009	Blaine	0	0	0	0	0	0	0	0	0	0
011	Boone	0	0	0	0	0	0	0	0	0	0
013	Box Butte	0	0	0	0	0	0	0	1	0	0
015	Boyd	0	0	0	0	0	0	0	0	0	0
017	Brown	0	0	0	0	0	0	1	0	0	0
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

NEBRASKA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
019	Buffalo	3	1	3	1	3	2	6	3	6	6
021	Burt	0	3	0	0	0	0	0	0	0	0
023	Butler	0	0	0	1	0	0	0	0	0	1
025	Cass	0	0	0	0	2	1	1	2	1	2
027	Cedar	0	0	0	0	2	0	0	0	0	1
029	Chase	1	0	0	0	0	0	2	1	0	0
031	Cherry	0	1	0	0	0	1	0	0	0	0
033	Cheyenne	1	0	1	0	0	1	0	0	4	4
035	Clay	0	0	0	0	0	2	1	0	1	0
037	Colfax	0	0	1	0	0	1	1	0	0	1
039	Cuming	0	0	1	0	0	0	0	1	0	3
041	Custer	1	0	2	0	0	0	2	0	0	0
043	Dakota	0	1	2	1	5	2	1	0	3	1
045	Dawes	0	1	0	0	1	0	0	1	0	0
047	Dawson	1	2	4	4	1	3	2	1	0	0
049	Deuel	0	0	1	0	0	1	0	0	0	1
051	Dixon	0	0	1	1	0	0	0	0	0	0
053	Dodge	0	0	2	2	2	0	2	2	0	4
055	Douglas	44	56	52	57	45	55	56	66	75	55
057	Dundy	0	0	0	0	0	0	0	1	0	0
059	Fillmore	0	0	0	0	0	0	0	1	0	0
061	Franklin	1	0	0	0	1	0	0	0	0	0
063	Frontier	0	0	1	0	0	0	0	0	0	0
065	Furnas	0	0	1	1	2	0	0	0	0	0
067	Gage	8	4	3	2	1	1	7	0	5	5
069	Garden	0	0	0	0	0	0	0	0	0	0
071	Garfield	0	0	0	1	0	1	0	1	0	0
073	Gosper	0	0	0	1	0	0	1	1	1	0
075	Grant	0	0	0	0	0	0	0	0	0	0
077	Greeley	0	0	0	0	0	0	2	0	0	0
079	Hall	6	2	1	5	2	3	5	1	3	1
081	Hamilton	1	1	0	1	1	0	1	0	1	0
083	Harlan	0	0	0	0	0	0	0	0	0	0
085	Hayes	0	0	0	0	0	0	1	1	0	0
087	Hitchcock	0	0	0	0	1	1	0	0	1	0
089	Holt	2	1	0	0	2	1	0	0	0	0
091	Hooker	0	0	0	0	0	0	0	0	0	0
093	Howard	0	0	1	0	1	2	0	0	0	1
095	Jefferson	0	0	1	1	1	0	0	0	0	1
097	Johnson	0	0	0	0	0	0	0	0	0	0
099	Kearney	1	2	0	0	1	1	0	0	0	0
101	Keith	2	0	0	0	1	0	0	0	0	0
103	Keya Paha	0	0	0	0	0	0	0	0	0	0
105	Kimball	0	0	0	0	0	0	0	0	1	0
107	Knox	0	1	1	2	0	0	1	0	1	2
109	Lancaster	37	41	34	47	48	38	44	42	69	62
111	Lincoln	0	1	1	1	2	0	4	0	2	4
113	Logan	0	0	0	0	0	0	0	0	0	0
115	Loup	0	0	0	0	0	0	0	0	0	0
117	McPherson	0	0	0	0	0	0	0	0	0	0
119	Madison	4	1	0	3	4	0	3	1	1	0
121	Merrick	0	2	1	1	1	0	0	0	0	0
123	Morrill	0	0	0	0	0	0	0	0	0	0
125	Nance	0	0	0	0	0	0	1	0	0	0
127	Nemaha	0	0	0	0	1	0	1	0	0	0
129	Nuckolls	1	0	0	0	0	0	0	0	0	0
131	Otoe	0	0	0	1	1	0	1	2	0	2
133	Pawnee	0	0	0	0	0	1	0	0	0	0
135	Perkins	0	0	2	1	0	0	3	0	2	0
137	Phelps	0	3	1	2	0	1	0	1	0	1
139	Pierce	0	1	0	0	0	1	0	0	0	0
141	Platte	4	6	6	6	9	4	5	14	3	9
143	Polk	0	0	0	0	0	0	1	0	0	0
145	Red Willow	0	1	0	1	4	1	0	2	0	1
147	Richardson	0	0	0	0	3	0	0	0	0	0
149	Rock	0	0	0	0	0	0	0	0	0	0
151	Saline	0	2	2	3	0	0	1	1	2	2
153	Sarpy	1	3	2	8	8	4	6	6	4	4
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

NEBRASKA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
155	Saunders	0	0	2	1	2	0	0	1	1	1
157	Scotts Bluff	2	2	2	2	1	0	1	1	2	1
159	Seward	1	1	0	0	2	1	1	0	2	2
161	Sheridan	0	0	0	0	0	0	0	0	1	0
163	Sherman	0	0	2	0	0	1	0	1	0	0
165	Sioux	0	0	0	0	0	0	0	0	0	0
167	Stanton	0	0	0	0	0	0	0	0	0	0
169	Thayer	0	0	0	0	0	0	0	3	0	1
171	Thomas	0	0	0	0	0	0	0	1	0	0
173	Thurston	0	1	0	0	0	0	0	0	0	1
175	Valley	0	0	0	0	0	0	0	0	1	1
177	Washington	4	2	1	1	0	1	0	0	1	0
179	Wayne	1	0	0	0	1	0	1	0	0	1
181	Webster	0	0	1	2	0	0	0	0	0	0
183	Wheeler	0	0	0	2	1	0	0	0	0	0
185	York	1	1	1	0	1	1	1	1	5	6
999	UNKNOWN	0	0	0	0	0	0	0	0	0	1
	TOTAL	131	145	144	169	167	135	167	164	203	190

NEVADA

Alphabetic Code: NV
Numeric Code: 32

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Churchill	0	0	1	1	2	0	1	0	2	1
003	Clark	44	67	68	64	79	73	102	90	130	156
005	Douglas	6	7	13	11	13	11	10	9	12	11
007	Elko	5	5	4	2	3	4	0	3	4	2
009	Esmeralda	0	1	0	0	0	0	0	0	0	0
011	Erueka	0	0	0	0	0	0	0	0	1	0
013	Humboldt	0	0	1	1	1	0	0	0	0	0
015	Lander	1	0	0	0	0	1	0	0	0	1
017	Lincoln	0	0	0	0	0	0	0	0	0	0
019	Lyon	2	1	1	1	1	5	4	3	2	4
021	Mineral	0	0	0	0	0	0	1	0	1	0
023	Nye	0	0	2	2	2	4	0	1	2	2
027	Pershing	0	0	0	0	1	0	0	0	0	0
029	Storey	0	0	0	0	0	0	0	0	1	0
031	Washoe	41	73	50	46	61	59	68	67	101	96
033	White Pine	1	1	3	0	1	0	0	0	0	1
510	Carson City (city)	7	10	8	12	7	10	9	8	14	21
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	107	165	151	140	171	167	195	181	270	295

NEW HAMPSHIRE

Alphabetic Code: NH
Numeric Code: 33

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Belknap	7	6	6	4	5	7	7	15	15	14
003	Carroll	9	6	3	5	9	0	8	8	7	8
005	Cheshire	10	12	17	15	15	17	27	24	12	27
007	Coos	1	3	2	1	1	1	2	0	0	0
009	Grafton	16	14	22	17	25	26	25	37	33	38
011	Hillsborough	147	128	135	163	176	160	159	180	283	285
013	Merrimack	10	16	12	18	33	29	26	29	48	50
015	Rockingham	72	78	88	86	93	106	107	104	145	167
017	Strafford	27	41	47	47	42	46	49	50	52	49
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

NEW HAMPSHIRE		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
019	Sullivan	5	13	3	7	9	12	11	12	16	14
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	304	317	335	363	408	404	421	459	611	652

NEW JERSEY

Alphabetic Code: NJ
Numeric Code: 34

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Atlantic	8	8	9	13	14	14	15	12	17	20
003	Bergen	241	271	260	272	290	289	306	283	375	394
005	Burlington	54	90	69	89	100	85	80	107	116	103
007	Camden	96	79	90	90	73	55	80	72	101	90
009	Cape May	9	18	10	16	15	14	16	10	14	30
011	Cumberland	4	9	6	7	8	5	5	10	6	10
013	Essex	169	165	138	143	151	179	140	179	203	228
015	Gloucester	61	82	59	56	56	52	28	44	42	36
017	Hudson	45	47	41	34	41	30	45	45	79	72
019	Hunterdon	145	147	135	150	153	152	160	225	203	235
021	Mercer	378	381	345	341	336	300	345	321	361	345
023	Middlesex	234	302	305	316	294	273	296	309	389	408
025	Monmouth	252	288	299	310	313	354	398	367	451	486
027	Morris	352	365	364	308	331	282	322	319	387	462
029	Ocean	46	45	52	48	61	47	46	53	46	51
031	Passaic	92	86	95	76	72	70	100	86	106	108
033	Salem	7	6	7	7	6	5	10	14	16	18
035	Somerset	323	316	293	326	305	264	371	379	435	448
037	Sussex	43	40	40	37	48	35	43	45	59	49
039	Union	245	256	222	249	244	227	253	279	330	349
041	Warren	28	31	31	25	19	24	35	29	35	48
999	UNKNOWN	1	0	1	0	1	0	1	0	1	0
	TOTAL	2833	3032	2871	2913	2931	2756	3095	3188	3772	3990

NEW MEXICO

Alphabetic Code: NM
Numeric Code: 35

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Bernalillo	93	115	120	111	124	145	121	151	207	207
003	Catron	0	0	0	0	0	0	0	0	0	0
005	Chaves	2	3	2	2	4	2	1	5	1	3
006	Cibola	0	1	0	1	2	1	2	0	0	1
007	Colfax	1	4	6	5	1	2	0	1	2	0
009	Curry	1	2	1	0	0	3	0	0	0	0
011	DeBaca	0	0	0	0	0	0	1	0	0	0
013	Dona Ana	9	16	12	19	15	3	9	12	15	14
015	Eddy	1	3	1	4	3	2	3	0	2	0
017	Grant	0	0	1	1	1	0	0	0	0	1
019	Guadalupe	0	0	0	0	0	0	0	0	0	0
021	Harding	0	0	0	0	0	0	0	0	0	0
023	Hidalgo	0	0	0	0	1	0	0	0	0	0
025	Lea	4	4	6	4	4	3	0	3	2	2
027	Lincoln	2	4	2	1	0	0	0	2	1	1
028	Los Alamos	39	29	39	39	37	32	35	32	47	37
029	Luna	1	1	0	2	0	1	1	2	0	2
031	McKinley	0	0	1	1	1	0	1	0	0	0
033	Mora	0	0	0	0	0	0	0	0	0	0
035	Otero	1	3	2	2	3	4	3	4	3	1
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

NEW MEXICO		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
037	Quay	0	0	0	0	0	1	0	0	0	1
039	Rio Arriba	1	3	2	2	1	3	3	3	3	4
041	Roosevelt	0	1	2	0	0	0	1	0	0	2
043	Sandoval	6	13	7	11	9	14	16	13	14	13
045	San Juan	2	4	6	5	5	7	3	5	5	6
047	San Miguel	0	1	1	0	1	0	0	1	0	0
049	Santa Fe	21	19	19	20	15	23	20	21	27	31
051	Sierra	1	0	0	0	1	1	1	0	0	2
053	Socorro	2	0	1	0	1	1	1	2	1	1
055	Taos	4	2	1	1	0	1	0	2	4	0
057	Torrance	1	0	3	2	1	3	1	0	2	3
059	Union	0	0	0	1	0	1	0	0	0	0
061	Valencia	1	1	5	1	2	3	3	4	7	8
999	UNKNOWN	0	0	0	0	1	0	0	0	0	0
	TOTAL	193	229	240	235	233	256	226	263	343	340

NEW YORK

Alphabetic Code: NY
Numeric Code: 36

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Albany	65	72	67	66	52	44	58	62	75	62
003	Allegany	10	13	11	12	15	11	14	14	25	14
005	Bronx	47	43	34	37	38	37	36	44	59	49
007	Broome	94	77	76	88	120	105	112	103	140	144
009	Cattaraugus	12	9	18	14	7	10	10	9	6	6
011	Cayuga	8	12	18	9	7	8	11	3	15	15
013	Chautauqua	9	12	4	9	9	11	10	5	22	12
015	Chemung	49	30	41	47	55	26	36	29	36	46
017	Chenango	7	12	9	8	9	14	17	18	11	9
019	Clinton	10	1	11	11	5	5	17	2	9	9
021	Columbia	7	1	6	5	11	5	4	5	8	17
023	Cortland	9	2	12	8	6	13	9	10	7	7
025	Delaware	2	3	6	7	2	2	3	4	11	4
027	Dutchess	110	123	165	212	234	237	290	266	329	368
029	Erie	221	226	227	208	206	226	199	233	284	302
031	Essex	1	0	1	5	5	4	1	2	6	3
033	Franklin	1	0	0	0	0	2	2	2	0	1
035	Fulton	8	4	7	3	4	2	11	6	7	7
037	Genesee	8	13	14	18	20	21	11	16	23	24
039	Greene	6	6	10	6	3	6	6	6	6	6
041	Hamilton	0	0	0	0	1	0	0	2	2	2
043	Herkimer	3	2	6	6	1	3	3	4	2	13
045	Jefferson	10	5	10	11	9	11	11	8	9	14
047	Kings	113	110	81	99	96	82	101	107	161	123
049	Lewis	0	1	0	1	0	1	0	0	2	1
051	Livingston	9	14	18	17	12	18	12	15	10	23
053	Madison	11	15	16	13	22	13	8	6	15	12
055	Monroe	817	1040	1044	1244	1211	1076	1222	1168	1549	1358
057	Montgomery	8	4	7	9	12	8	17	12	19	7
059	Nassau	310	302	251	214	249	261	301	260	351	314
061	New York	295	340	306	334	357	328	380	378	533	521
063	Niagara	47	56	70	58	43	46	54	37	34	44
065	Oneida	29	30	31	37	27	32	40	51	43	54
067	Onondaga	120	151	115	113	115	120	106	101	132	134
069	Ontario	23	44	55	41	40	31	43	37	51	64
071	Orange	48	37	42	57	44	63	70	57	83	80
073	Orleans	7	10	8	11	17	7	12	17	17	14
075	Oswego	12	14	18	16	9	9	7	9	14	10
077	Otsego	4	2	9	8	5	4	10	7	6	8
079	Putnam	44	48	59	57	49	52	53	41	56	74
081	Queens	106	112	116	97	92	109	89	109	146	162
083	Rensselaer	39	42	42	33	55	34	39	31	27	45
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

NEW YORK		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
085	Richmond	25	38	26	27	22	29	26	39	38	37
087	Rockland	109	121	85	98	116	91	118	101	164	124
089	St. Lawrence	8	8	6	6	10	6	2	6	7	11
091	Saratoga	97	122	143	140	150	143	156	116	146	131
093	Schenectady	218	246	262	212	260	279	255	180	200	195
095	Schoharie	2	4	2	1	2	1	2	1	0	5
097	Schuyler	5	8	3	8	3	1	6	9	9	5
099	Seneca	11	9	11	5	13	8	8	4	13	9
101	Steuben	60	50	60	68	55	60	49	47	41	51
103	Suffolk	265	257	267	246	311	311	357	321	417	439
105	Sullivan	6	9	5	6	7	4	7	1	5	0
107	Tioga	12	19	17	21	17	18	23	21	51	46
109	Tompkins	52	65	63	73	59	56	84	94	93	85
111	Ulster	25	29	35	51	77	79	60	59	80	72
113	Warren	23	18	26	25	18	17	21	17	18	15
115	Washington	5	7	1	9	5	3	5	6	2	7
117	Wayne	52	47	61	61	81	74	91	85	99	85
119	Westchester	345	370	366	384	423	404	467	409	592	614
121	Wyoming	1	3	4	2	0	1	2	2	2	1
123	Yates	1	4	2	3	3	3	4	1	5	2
999	UNKNOWN	0	2	3	3	5	4	3	1	2	3
	TOTAL	4061	4474	4489	4698	4911	4689	5181	4816	6325	6119

NORTH CAROLINA

Alphabetic Code: NC
Numeric Code: 37

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Alamance	8	12	18	11	8	17	15	15	12	18
003	Alexander	1	2	5	4	2	0	1	3	3	5
005	Alleghany	0	0	1	1	1	1	3	2	1	0
007	Anson	1	0	2	1	1	0	0	0	2	1
009	Ashe	0	1	0	1	0	0	0	2	0	1
011	Avery	0	0	1	0	0	0	1	0	2	1
013	Beaufort	0	0	2	2	0	2	2	5	3	2
015	Bertie	0	1	0	0	0	0	0	1	0	1
017	Bladen	0	0	0	1	1	0	0	1	1	0
019	Brunswick	3	5	5	3	3	4	4	3	4	7
021	Buncombe	19	29	36	29	36	46	45	59	46	40
023	Burke	10	13	14	13	15	16	8	12	16	20
025	Cabarrus	6	7	13	9	14	13	6	21	12	23
027	Caldwell	6	4	5	3	4	6	4	6	4	2
029	Camden	0	1	0	1	0	0	0	0	1	0
031	Carteret	0	7	2	3	7	3	2	5	5	12
033	Caswell	1	0	1	0	0	0	0	1	2	1
035	Catawba	12	17	17	13	24	16	16	17	23	27
037	Chatham	4	4	4	2	4	3	9	8	22	21
039	Cherokee	1	0	1	1	0	1	2	1	2	0
041	Chowan	0	1	0	0	2	2	2	14	3	5
043	Clay	1	0	0	2	1	1	0	0	0	2
045	Cleveland	4	5	7	8	3	3	10	8	5	8
047	Columbus	0	1	1	1	2	2	2	3	2	1
049	Craven	1	5	2	3	3	7	2	4	6	7
051	Cumberland	6	13	7	7	4	2	7	6	10	9
053	Currituck	1	0	0	0	0	0	0	0	0	1
055	Dare	1	3	0	1	3	3	3	1	0	1
057	Davidson	9	12	11	11	15	8	11	17	17	11
059	Davie	1	4	7	5	9	6	9	5	6	4
061	Duplin	0	3	1	1	0	1	2	0	2	2
063	Durham	39	45	52	63	68	63	82	98	139	148
065	Edgecombe	2	4	3	2	2	5	4	1	2	4
067	Forsyth	82	90	74	67	75	69	65	78	85	70
069	Franklin	1	1	2	1	1	2	2	1	3	1
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

NORTH CAROLINA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
071	Gaston	12	12	20	24	22	20	25	18	41	31
073	Gates	0	0	0	0	1	0	0	0	0	0
075	Graham	0	0	1	0	0	0	0	0	0	0
077	Granville	0	1	2	1	1	1	1	2	1	1
079	Greene	0	0	0	0	0	1	1	1	1	0
081	Guilford	57	57	57	59	55	59	73	75	95	95
083	Halifax	2	3	3	9	3	4	3	5	6	1
085	Harnett	0	2	3	0	0	1	4	4	3	6
087	Haywood	6	3	4	0	1	1	7	1	0	1
089	Henderson	18	14	16	13	21	22	24	16	13	17
091	Hertford	0	1	0	0	2	1	0	0	0	1
093	Hoke	0	0	0	1	1	1	1	2	0	1
095	Hyde	1	1	0	1	1	0	1	0	0	0
097	Iredell	12	5	6	15	15	14	18	19	27	17
099	Jackson	3	5	1	2	1	1	0	0	1	0
101	Johnston	1	3	2	1	4	2	7	10	10	15
103	Jones	0	0	0	1	0	0	0	0	0	0
105	Lee	2	7	1	6	3	2	5	3	1	3
107	Lenoir	5	10	4	7	5	6	11	15	5	5
109	Lincoln	0	2	1	1	2	6	3	10	9	9
111	McDowell	1	1	1	1	3	1	1	0	1	2
113	Macon	1	2	1	2	0	1	1	0	2	3
115	Madison	0	1	0	0	0	0	2	1	1	1
117	Martin	0	1	1	0	1	0	1	1	0	0
119	Mecklenburg	109	122	98	99	106	109	134	136	148	161
121	Mitchell	1	1	1	1	5	0	1	0	1	0
123	Montgomery	5	1	0	3	1	3	0	0	1	2
125	Moore	3	6	10	7	6	13	12	11	9	10
127	Nash	1	2	3	1	1	5	3	1	2	3
129	New Hanover	21	23	20	33	33	34	34	27	36	43
131	Northampton	0	0	0	0	2	0	0	0	0	0
133	Onslow	0	2	1	2	3	5	4	0	4	1
135	Orange	39	49	56	71	77	70	90	106	146	152
137	Pamlico	1	0	0	0	1	1	1	1	0	1
139	Pasquotank	0	1	0	1	0	0	0	0	0	0
141	Pender	0	0	1	2	0	2	1	1	7	6
143	Perquimans	0	0	0	0	0	0	2	1	0	0
145	Person	3	2	1	1	1	2	2	1	3	0
147	Pitt	7	6	8	7	19	10	18	17	23	16
149	Polk	1	2	3	3	2	2	3	0	1	2
151	Randolph	4	14	8	12	9	8	13	14	15	18
153	Richmond	0	2	0	0	0	1	0	2	2	2
155	Robeson	0	2	1	3	4	4	0	0	4	1
157	Rockingham	4	7	1	1	7	5	6	7	5	2
159	Rowan	11	9	3	2	1	4	2	5	4	4
161	Rutherford	2	3	2	3	7	4	6	3	1	5
163	Sampson	1	3	2	1	0	2	2	3	1	1
165	Scotland	1	0	1	3	4	1	0	3	4	4
167	Stanly	2	5	0	2	3	5	1	1	4	2
169	Stokes	7	3	5	2	1	8	10	5	4	5
171	Surry	4	0	2	2	4	3	1	3	2	3
173	Swain	0	0	0	0	0	0	0	0	0	0
175	Transylvania	4	4	7	6	6	3	9	3	5	3
177	Tyrrell	0	0	0	0	0	0	0	1	0	0
179	Union	8	4	4	9	4	12	4	8	10	10
181	Vance	1	0	0	1	0	0	2	2	1	2
183	Wake	149	192	187	206	245	259	303	304	508	602
185	Warren	0	0	0	0	0	0	0	0	0	0
187	Washington	0	0	0	0	0	0	1	0	0	0
189	Watauga	2	3	1	2	1	3	1	4	0	0
191	Wayne	3	1	4	3	1	5	4	2	3	6
193	Wilkes	4	0	1	4	4	4	3	8	4	5
195	Wilson	5	0	4	3	9	4	8	6	3	3
197	Yadkin	2	1	1	2	2	3	4	0	0	3
199	Yancey	0	0	4	2	2	0	0	0	0	2
999	UNKNOWN	0	0	0	0	0	0	0	1	0	0
	TOTAL	746	891	858	914	1021	1040	1193	1268	1619	1745

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

NORTH DAKOTA

Alphabetic Code: ND
Numeric Code: 38

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adams	0	0	0	0	0	0	0	0	0	0
003	Barnes	1	1	0	2	1	0	1	2	0	3
005	Benson	0	1	0	0	0	0	0	0	0	0
007	Billings	0	0	0	0	0	0	0	0	0	0
009	Bottineau	0	1	2	1	5	4	3	0	1	0
011	Bowman	0	1	0	0	0	0	0	0	0	0
013	Burke	0	0	0	0	0	0	0	0	0	0
015	Burleigh	8	8	0	5	1	8	5	7	2	7
017	Cass	10	17	16	11	12	16	17	14	22	24
019	Cavalier	0	0	0	0	0	0	0	0	0	1
021	Dickey	0	0	1	0	0	0	0	1	0	1
023	Divide	0	0	1	0	0	0	0	1	0	0
025	Dunn	0	0	0	0	0	0	0	1	1	1
027	Eddy	0	0	1	0	0	0	0	1	0	0
029	Emmons	0	0	0	0	1	0	0	0	1	0
031	Foster	1	0	1	0	0	0	1	0	0	0
033	Golden Valley	0	1	0	0	0	0	0	0	0	2
035	Grand Forks	4	8	4	9	5	7	10	4	8	10
037	Grant	0	0	0	0	0	0	0	0	0	0
039	Griggs	0	0	2	1	1	1	0	0	0	0
041	Hettinger	0	1	0	1	0	0	0	1	1	0
043	Kidder	0	0	0	0	0	0	2	0	0	0
045	LaMoure	1	0	0	0	0	0	0	0	0	0
047	Logan	0	0	0	0	1	0	0	0	0	0
049	McHenry	0	0	2	0	0	0	0	0	0	1
051	McIntosh	0	0	0	0	0	0	0	0	0	0
053	McKenzie	1	0	0	1	1	1	1	0	0	1
055	McLean	0	1	0	3	0	1	1	1	1	0
057	Mercer	1	0	0	1	1	1	0	1	2	0
059	Morton	0	1	3	5	1	0	1	3	1	0
061	Mountrail	0	0	0	0	1	1	1	0	0	1
063	Nelson	0	2	0	1	0	0	0	0	0	0
065	Oliver	0	0	0	0	0	0	0	0	0	0
067	Pembina	0	0	3	1	1	1	0	0	1	1
069	Pierce	0	1	0	2	0	0	0	0	0	0
071	Ramsey	2	2	2	4	3	1	2	1	0	1
073	Ransom	3	2	1	0	0	0	4	0	3	5
075	Renville	0	0	0	1	0	0	0	0	0	0
077	Richland	1	2	1	3	2	3	4	0	3	1
079	Rolette	0	0	0	1	0	0	0	0	0	1
081	Sargent	2	2	1	0	1	0	2	0	1	1
083	Sheridan	0	0	0	0	1	0	1	0	1	0
085	Sioux	0	0	0	0	0	0	0	0	0	0
087	Slope	0	0	0	0	0	0	0	0	0	0
089	Stark	2	3	2	1	1	2	0	0	2	1
091	Steele	0	0	0	0	0	1	0	0	0	0
093	Stutsman	1	2	6	1	0	3	2	0	2	1
095	Towner	0	1	0	0	0	0	0	0	2	1
097	Trails	0	1	0	1	1	2	0	0	0	1
099	Walsh	0	0	2	0	0	0	0	0	0	0
101	Ward	3	2	3	2	4	3	3	1	2	0
103	Wells	0	0	2	1	3	0	0	1	2	0
105	Williams	1	2	2	2	3	2	1	2	6	1
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	42	63	58	61	51	58	62	42	65	67

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

OHIO

Alphabetic Code: OH
Numeric Code: 39

Code	County	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adams	3	0	3	1	0	1	1	1	2	3
003	Allen	18	14	8	12	3	4	0	8	4	5
005	Ashland	9	5	7	8	5	6	6	4	4	9
007	Ashtabula	8	3	7	10	8	7	4	5	10	11
009	Athens	7	8	5	4	6	10	13	9	13	12
011	Auglaize	14	15	7	11	8	5	5	7	5	9
013	Belmont	1	1	0	2	1	1	1	1	2	1
015	Brown	1	0	2	3	2	1	2	2	4	1
017	Butler	69	94	105	132	138	101	157	146	190	168
019	Carroll	2	7	3	1	1	4	1	1	2	4
021	Champaign	0	0	1	5	4	1	3	5	9	6
023	Clark	15	20	23	6	11	9	9	11	14	16
025	Clermont	24	21	23	32	35	29	28	31	37	38
027	Clinton	1	2	4	2	3	5	3	1	3	2
029	Columbiana	7	11	16	18	8	10	7	9	9	11
031	Coshocton	2	1	9	6	2	2	0	3	2	2
033	Crawford	3	1	1	2	4	1	3	1	4	8
035	Cuyahoga	330	370	394	382	397	317	320	331	430	471
037	Darke	3	7	4	5	2	4	9	6	6	7
039	Defiance	1	9	4	3	4	3	2	2	6	6
041	Delaware	50	53	57	50	62	65	73	64	88	91
043	Erie	22	26	17	15	8	7	12	10	9	6
045	Fairfield	41	66	47	31	50	42	53	34	48	42
047	Fayette	2	4	3	1	1	0	1	1	3	5
049	Franklin	83	103	90	95	108	99	128	106	147	145
051	Fulton	3	9	10	2	3	4	12	12	9	17
053	Gallia	1	0	0	0	0	4	0	0	0	0
055	Geauga	61	37	50	50	53	52	47	56	68	62
057	Greene	53	50	43	52	42	54	68	67	74	63
059	Guernsey	11	10	19	14	7	5	2	1	0	2
061	Hamilton	312	330	384	398	446	395	473	511	515	554
063	Hancock	5	4	11	5	2	7	5	8	4	7
065	Hardin	2	3	0	4	5	0	2	3	3	5
067	Harrison	1	1	0	1	0	0	1	2	1	0
069	Henry	1	3	3	2	0	2	4	3	0	4
071	Highland	2	3	6	1	2	1	1	3	2	1
073	Hocking	0	0	1	0	0	0	1	0	2	3
075	Holmes	3	2	4	1	3	2	5	2	4	3
077	Huron	5	2	10	6	5	5	8	7	9	9
079	Jackson	0	2	0	0	2	0	1	1	1	0
081	Jefferson	0	4	2	1	6	2	3	5	2	7
083	Knox	4	9	6	8	7	3	4	1	5	1
085	Lake	96	92	77	70	88	90	75	81	110	107
087	Lawrence	2	2	1	2	4	7	3	2	3	5
089	Licking	27	33	36	33	39	39	43	65	53	63
091	Logan	2	0	0	0	2	1	0	1	1	8
093	Lorain	62	66	69	64	66	57	49	54	68	61
095	Lucas	113	101	96	105	92	103	77	116	134	132
097	Madison	3	3	4	4	2	4	2	2	5	1
099	Mahoning	22	26	26	21	17	12	24	18	30	28
101	Marion	3	3	5	2	3	3	1	2	4	1
103	Medina	48	57	51	39	48	43	45	49	69	74
105	Meigs	0	0	0	1	1	0	0	1	1	3
107	Mercer	1	11	6	5	6	8	5	6	2	7
109	Miami	27	34	40	26	24	22	40	31	40	57
111	Monroe	0	0	0	0	0	1	2	2	1	0
113	Montgomery	223	209	168	166	127	162	159	165	220	189
115	Morgan	0	0	2	0	0	1	1	0	0	0
117	Morrow	2	2	1	1	3	2	0	1	2	6
119	Muskingum	2	6	8	10	6	5	3	4	5	3
121	Noble	0	0	2	0	0	0	0	0	0	0
123	Ottawa	5	6	6	5	4	4	4	2	10	6

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

OHIO		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
125	Paulding	5	7	5	9	4	5	8	2	5	2
127	Perry	2	1	1	3	1	0	0	1	1	1
129	Pickaway	3	4	3	3	4	4	8	7	1	2
131	Pike	0	1	0	1	0	0	0	0	4	0
133	Portage	51	61	52	53	53	65	47	67	68	69
135	Preble	3	7	3	9	9	7	4	9	6	9
137	Putnam	3	2	2	1	1	1	7	3	5	3
139	Richland	12	15	9	15	26	12	16	11	13	9
141	Ross	1	5	8	4	8	8	2	6	8	5
143	Sandusky	10	4	4	7	7	4	8	1	1	3
145	Scioto	0	0	2	0	4	0	2	3	2	1
147	Seneca	4	2	4	5	3	2	3	1	8	2
149	Shelby	10	15	13	7	19	17	20	17	16	13
151	Stark	71	85	81	113	85	94	112	91	122	121
153	Summit	188	215	191	174	203	173	182	213	230	215
155	Trumbull	33	35	23	23	21	20	19	30	46	28
157	Tuscarawas	9	8	5	10	4	15	13	11	10	8
159	Union	17	13	12	16	13	15	16	14	18	32
161	Van Wert	6	2	4	3	5	2	2	0	0	0
163	Vinton	0	0	0	0	1	0	0	0	0	2
165	Warren	50	53	67	80	66	76	65	72	112	137
167	Washington	7	6	14	6	11	11	5	8	12	10
169	Wayne	24	18	32	28	19	15	18	15	23	33
171	Williams	5	11	12	11	9	7	13	11	12	8
173	Wood	42	28	42	19	35	31	38	38	42	74
175	Wyandot	2	2	1	0	1	0	1	2	2	1
999	UNKNOWN	0	0	1	0	0	0	0	0	1	1
	TOTAL	2376	2561	2578	2536	2598	2418	2620	2716	3276	3357

OKLAHOMA

Alphabetic Code: OK
Numeric Code: 40

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adair	0	0	0	0	0	0	0	0	0	0
003	Alfalfa	1	0	1	1	0	1	0	0	0	2
005	Atoka	0	0	1	1	0	2	0	1	1	0
007	Beaver	0	1	1	0	0	0	0	0	0	0
009	Beckham	1	0	1	0	0	0	1	0	0	0
011	Blaine	3	1	0	0	0	1	2	0	1	2
013	Bryan	1	1	1	0	0	1	3	3	5	0
015	Caddo	1	4	0	0	0	2	0	0	0	2
017	Canadian	19	26	25	20	15	16	18	22	25	29
019	Carter	1	4	3	5	2	0	2	3	4	2
021	Cherokee	0	2	0	0	0	0	0	1	1	1
023	Choctaw	0	0	1	1	0	0	1	1	0	0
025	Cimarron	0	1	0	0	0	0	0	0	1	0
027	Cleveland	30	18	31	31	33	34	34	32	29	31
029	Coal	0	1	0	0	0	0	0	0	0	0
031	Comanche	2	2	3	0	10	5	3	7	4	6
033	Cotton	1	0	0	4	0	2	0	0	1	1
035	Craig	1	1	0	1	0	2	1	0	0	3
037	Creek	2	2	7	5	6	5	4	3	12	11
039	Custer	1	0	2	0	3	1	0	0	2	1
041	Delaware	1	1	1	2	0	0	1	1	1	3
043	Dewey	1	0	0	0	0	0	0	0	0	0
045	Ellis	1	0	1	0	0	0	1	0	0	0
047	Garfield	5	2	3	4	0	0	0	0	1	2
049	Garvin	3	2	2	2	1	1	1	1	1	2
051	Grady	3	3	7	6	5	7	10	3	6	3
053	Grant	0	0	0	0	0	1	0	0	0	0
055	Greer	0	0	0	0	0	0	1	0	0	0
057	Harmon	0	0	0	0	0	0	0	0	1	0

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

OKLAHOMA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
059	Harper	0	0	0	0	0	0	1	0	0	0
061	Haskell	0	0	0	0	1	1	0	0	1	0
063	Hughes	2	0	1	0	0	2	3	0	0	1
065	Jackson	1	0	0	0	0	0	3	0	1	1
067	Jefferson	0	0	0	0	0	0	0	0	0	1
069	Johnston	1	2	0	0	0	0	0	0	0	0
071	Kay	21	24	21	15	8	5	11	6	4	6
073	Kingfisher	2	2	0	0	0	2	2	1	1	3
075	Kiowa	2	3	1	1	0	1	0	0	2	0
077	Latimer	1	2	0	1	0	1	1	0	0	0
079	Le Flore	1	0	1	2	2	3	3	1	0	0
081	Lincoln	0	2	3	0	4	1	2	0	0	0
083	Logan	0	0	0	2	0	3	2	1	4	1
085	Love	1	0	1	0	0	0	0	0	1	0
087	McClain	11	12	13	13	8	14	12	14	14	12
089	McCurtain	1	3	0	1	1	0	0	0	1	0
091	McIntosh	3	3	0	1	2	3	0	0	0	1
093	Major	0	2	0	0	0	0	0	0	0	0
095	Marshall	2	0	0	1	2	1	0	1	0	0
097	Mayes	4	2	2	1	2	1	1	1	4	1
099	Murray	0	0	0	0	0	0	0	0	1	0
101	Muskogee	8	6	5	5	4	3	11	8	9	6
103	Noble	6	5	0	4	2	4	5	5	3	2
105	Nowata	8	6	8	2	1	1	1	0	4	13
107	Okfuskee	1	0	0	0	1	0	0	0	0	0
109	Oklahoma	29	33	36	36	34	30	40	45	42	55
111	Okmulgee	1	1	1	2	2	2	0	0	0	1
113	Osage	112	112	119	129	96	72	71	65	66	62
115	Ottawa	2	5	1	2	3	2	1	1	0	5
117	Pawnee	1	5	4	2	0	0	1	4	0	1
119	Payne	9	13	9	12	21	15	15	12	18	19
121	Pittsburg	1	2	1	1	1	1	0	1	2	2
123	Pontotoc	2	3	3	2	1	2	2	2	1	4
125	Pottawatomie	13	15	15	20	14	17	14	19	16	18
127	Pushmataha	0	1	0	0	1	0	0	0	0	0
129	Roger Mills	1	0	0	0	0	0	0	0	0	0
131	Rogers	51	43	44	37	37	39	41	38	43	43
133	Seminole	2	3	2	1	0	0	2	0	4	0
135	Sequoyah	3	1	3	0	3	1	1	1	1	2
137	Stephens	39	49	48	64	90	53	42	22	40	33
139	Texas	0	0	2	2	0	0	0	0	0	1
141	Tillman	0	0	0	0	0	0	0	0	0	1
143	Tulsa	62	52	55	44	44	47	44	38	49	45
145	Wagoner	23	17	15	15	16	18	15	12	19	17
147	Washington	58	68	72	90	68	45	45	39	36	33
149	Washita	1	1	2	0	1	2	2	0	0	0
151	Woods	2	2	0	2	0	0	1	1	1	3
153	Woodward	1	0	0	3	0	2	0	2	5	2
999	UNKNOWN	0	0	0	0	0	0	1	0	0	0
	TOTAL	567	572	579	596	545	475	479	418	489	496

OREGON

Alphabetic Code: OR
Numeric Code: 41

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Baker	5	0	1	1	1	0	3	0	1	1
003	Benton	37	55	55	39	36	55	61	65	109	101
005	Clackamas	85	90	77	103	89	104	111	126	197	187
007	Clatsop	2	5	6	6	12	19	5	6	7	8
009	Columbia	3	4	3	7	3	5	4	4	6	6
011	Coos	5	6	4	2	2	3	2	4	4	3
013	Crook	2	1	2	0	0	1	0	1	2	3
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

OREGON		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
015	Curry	2	1	2	1	1	4	6	0	6	0
017	Deschutes	20	24	26	29	18	14	23	18	20	25
019	Douglas	12	6	8	8	9	6	10	6	2	10
021	Gilliam	0	0	0	0	0	0	0	0	0	0
023	Grant	0	1	1	0	0	1	1	0	1	0
025	Harney	0	0	0	0	1	0	2	0	1	1
027	Hood River	0	2	0	1	3	1	1	3	2	3
029	Jackson	11	21	24	21	27	30	17	13	28	14
031	Jefferson	9	5	7	4	12	8	7	6	7	13
033	Josephine	6	5	6	4	1	8	11	13	9	9
035	Klamath	5	5	2	2	2	1	1	3	5	1
037	Lake	0	0	1	1	0	0	0	0	0	2
039	Lane	45	38	28	47	60	57	61	50	76	59
041	Lincoln	2	4	3	3	2	1	5	5	4	4
043	Linn	4	2	8	7	8	8	8	12	17	11
045	Malheur	3	3	2	4	1	0	3	1	2	2
047	Marion	15	16	14	14	13	15	11	9	19	16
049	Morrow	0	1	0	0	1	1	0	2	0	1
051	Multnomah	62	64	53	71	57	73	78	81	118	129
053	Polk	7	11	10	7	7	7	13	9	18	18
055	Sherman	0	0	0	0	0	0	0	0	0	0
057	Tillamook	2	0	4	5	1	0	2	0	1	0
059	Umatilla	1	2	3	0	1	3	2	4	6	1
061	Union	0	1	0	1	2	2	1	0	0	0
063	Wallowa	0	0	2	0	0	0	1	0	1	0
065	Wasco	0	0	3	1	0	0	3	0	3	4
067	Washington	189	169	145	176	170	254	304	325	481	443
071	Wheeler	0	0	0	0	0	0	0	1	0	0
	Yamhill	6	9	13	25	18	23	13	24	30	20
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	540	551	513	590	558	704	770	791	1183	1095

PENNSYLVANIA

Alphabetic Code: PA
Numeric Code: 42

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adams	5	4	6	5	5	3	6	7	11	8
003	Allegheny	503	480	438	427	459	357	405	362	485	549
005	Armstrong	15	15	11	8	4	14	11	15	10	13
007	Beaver	21	21	16	23	23	24	12	17	11	40
009	Bedford	9	6	12	7	16	6	5	9	7	7
011	Berks	40	61	55	59	62	61	59	71	87	129
013	Blair	8	9	9	8	8	5	8	7	8	13
015	Bradford	53	49	41	29	17	16	25	28	15	24
017	Bucks	257	230	260	299	348	286	298	253	310	298
019	Butler	38	27	19	23	32	32	39	32	33	39
021	Cambria	3	10	6	4	11	9	6	10	15	12
023	Cameron	0	0	0	0	0	0	0	0	1	0
025	Carbon	4	4	1	3	9	4	5	6	3	5
027	Centre	15	33	26	25	33	36	37	46	45	63
029	Chester	181	192	224	235	250	259	300	285	318	334
031	Clarion	1	1	5	1	1	6	3	2	4	5
033	Clearfield	1	4	6	1	5	6	6	4	6	2
035	Clinton	2	3	1	1	1	1	2	2	1	1
037	Columbia	5	1	2	0	2	2	3	2	2	3
039	Crawford	12	9	5	5	5	6	9	2	4	6
041	Cumberland	46	53	51	38	39	37	27	20	50	36
043	Dauphin	86	99	96	89	64	77	85	72	77	89
045	Delaware	149	164	127	145	153	143	198	178	215	249
047	Elk	1	2	1	3	0	3	3	1	3	3
049	Erie	54	49	56	46	55	50	60	46	51	84
051	Fayette	5	7	9	5	12	11	7	11	14	15
053	Forest	1	2	2	1	2	3	3	2	1	3
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

PENNSYLVANIA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
055	Franklin	8	8	9	11	18	20	18	7	8	17
057	Fulton	1	0	1	2	0	0	1	1	0	3
059	Greene	1	0	2	4	1	4	2	0	2	3
061	Huntingdon	0	1	2	2	2	1	3	3	1	4
063	Indiana	8	12	11	17	20	8	14	5	13	14
065	Jefferson	0	3	2	2	2	3	4	0	3	4
067	Juniata	1	1	1	4	0	1	1	2	3	0
069	Lackawanna	12	12	17	19	16	10	15	11	26	30
071	Lancaster	114	116	114	86	93	93	115	82	121	153
073	Lawrence	12	9	12	4	11	12	12	10	9	7
075	Lebanon	10	14	16	15	15	9	21	11	16	15
077	Lehigh	154	183	167	181	186	187	169	134	179	234
079	Luzerne	22	29	31	22	21	21	24	29	50	41
081	Lycoming	28	18	21	13	19	30	20	19	21	27
083	McKean	1	2	3	5	2	4	2	6	9	7
085	Mercer	11	9	6	9	13	9	8	15	20	22
087	Mifflin	0	2	0	2	0	2	2	1	1	2
089	Monroe	9	8	5	8	8	17	5	12	18	16
091	Montgomery	312	333	309	350	361	374	423	444	496	598
093	Montour	2	2	3	0	4	0	1	0	2	1
095	Northampton	40	47	58	59	60	53	55	46	62	60
097	Northumberland	6	3	2	2	1	1	1	1	1	2
099	Perry	3	4	8	3	1	2	3	3	2	3
101	Philadelphia	96	78	107	99	79	93	96	112	144	123
103	Pike	1	0	4	1	3	3	5	5	15	12
105	Potter	0	0	0	1	1	0	0	1	1	0
107	Schuylkill	11	10	9	6	11	11	13	8	18	10
109	Snyder	1	2	0	1	2	1	1	0	2	1
111	Somerset	2	0	1	5	5	4	6	5	7	9
113	Sullivan	1	0	0	1	0	0	1	1	1	0
115	Susquehanna	2	2	7	1	3	5	4	5	11	15
117	Tioga	1	5	5	2	2	0	4	1	3	1
119	Union	4	2	3	4	3	4	2	5	3	2
121	Venango	4	7	5	4	5	2	4	7	8	15
123	Warren	7	13	13	9	13	3	8	3	8	8
125	Washington	25	25	32	31	26	28	31	25	35	29
127	Wayne	0	1	4	7	3	5	4	4	5	3
129	Westmoreland	149	155	144	146	146	121	140	120	158	137
131	Wyoming	2	2	1	2	2	0	3	2	2	3
133	York	51	58	60	46	39	45	57	65	94	91
999	UNKNOWN	0	1	1	1	0	0	1	0	1	1
	TOTAL	2627	2712	2681	2677	2813	2643	2921	2701	3366	3753

RHODE ISLAND

Alphabetic Code: RI
Numeric Code: 44

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Bristol	15	22	17	24	20	30	16	33	27	22
003	Kent	36	48	51	49	33	37	43	44	45	40
005	Newport	13	19	24	36	44	44	58	68	59	40
007	Providence	62	75	68	70	82	57	72	68	95	111
009	Washington	16	28	35	40	38	38	46	36	54	48
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	142	192	195	219	217	206	235	249	280	261

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

SOUTH CAROLINA

Alphabetic Code: SC
Numeric Code: 45

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Abbeville	1	1	0	1	0	0	1	0	1	1
003	Aiken	7	10	24	27	30	26	14	14	17	22
005	Allendale	0	0	0	0	0	0	0	0	1	0
007	Anderson	25	13	26	23	23	27	23	26	38	38
009	Bamberg	0	1	2	1	2	0	0	0	1	1
011	Barnwell	0	0	2	0	0	0	0	1	0	2
013	Beaufort	5	8	6	9	10	13	13	11	13	16
015	Berkeley	13	21	26	16	11	16	19	20	26	21
017	Calhoun	1	2	0	0	4	1	0	1	1	0
019	Charleston	24	38	30	28	19	32	33	31	46	42
021	Cherokee	1	2	3	2	2	2	3	2	3	0
023	Chester	0	3	6	1	2	0	3	2	2	0
025	Chesterfield	1	6	2	0	0	1	1	1	2	1
027	Clarendon	3	0	1	1	1	0	0	0	2	2
029	Colleton	2	2	0	0	2	2	0	1	0	1
031	Darlington	5	9	10	7	5	5	2	1	8	9
033	Dillon	1	0	1	3	0	1	1	0	1	0
035	Dorchester	2	3	5	4	2	2	5	5	3	6
037	Edgefield	2	2	2	4	1	3	1	1	4	3
039	Fairfield	0	0	0	1	0	0	0	2	1	1
041	Florence	9	11	10	12	21	17	19	22	19	22
043	Georgetown	1	3	2	1	2	3	3	3	2	4
045	Greenville	79	74	79	72	75	88	91	83	119	103
047	Greenwood	4	10	10	3	9	6	5	2	3	1
049	Hampton	0	1	0	0	0	1	1	1	1	0
051	Horry	11	5	6	8	9	9	14	9	15	14
053	Jasper	0	1	0	0	1	0	1	1	0	0
055	Kershaw	3	1	5	2	6	2	4	3	3	2
057	Lancaster	2	1	2	0	1	0	2	3	0	3
059	Laurens	4	5	5	3	1	4	2	3	3	2
061	Lee	0	0	0	0	1	0	1	0	0	1
063	Lexington	38	35	24	38	36	29	38	22	48	54
065	McCormack	0	0	0	1	0	1	1	1	2	0
067	Marion	1	1	3	0	2	0	2	1	2	2
069	Marlboro	1	0	0	0	0	0	1	0	0	0
071	Newberry	3	1	1	0	1	3	3	1	2	4
073	Oconee	4	7	8	7	18	15	9	8	15	15
075	Orangeburg	4	10	5	9	4	8	9	6	6	2
077	Pickens	9	20	23	22	31	22	32	31	23	31
079	Richland	23	25	19	26	18	22	22	15	19	24
081	Saluda	0	1	4	1	2	1	0	0	1	2
083	Spartanburg	56	60	72	60	61	48	67	63	78	83
085	Sumter	4	2	5	4	6	5	3	2	5	3
087	Union	0	2	0	0	1	1	0	0	2	0
089	Williamsburg	0	2	0	0	0	3	0	0	1	2
091	York	26	16	20	26	19	24	18	36	33	22
999	UNKNOWN	0	0	0	0	0	0	4	0	0	2
	TOTAL	375	415	449	423	439	443	471	435	572	564

SOUTH DAKOTA

Alphabetic Code: SD
Numeric Code: 46

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
003	Aurora	0	0	0	0	0	0	0	0	0	0
005	Beadle	1	0	0	1	3	0	3	1	2	2
007	Bennett	0	0	0	0	0	0	0	0	0	0

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

SOUTH DAKOTA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
009	Bon Homme	0	1	0	1	1	0	0	0	0	0
011	Brookings	0	0	3	1	4	2	3	3	2	6
013	Brown	2	3	1	0	0	0	2	1	0	0
015	Brule	0	0	0	0	0	0	0	0	0	0
017	Buffalo	0	0	0	0	0	0	0	0	0	0
019	Butte	2	0	0	0	0	1	1	0	0	1
021	Campbell	0	0	0	0	0	0	0	0	0	0
023	Charles Mix	0	0	0	0	0	1	1	1	0	1
025	Clark	0	1	1	0	0	0	0	0	0	0
027	Clay	1	0	0	0	0	0	0	2	3	2
029	Codington	0	1	0	3	1	0	3	1	4	3
031	Corson	0	0	0	0	0	0	0	0	1	0
033	Custer	1	0	1	0	0	1	1	0	0	0
035	Davison	1	0	1	1	1	1	2	1	0	3
037	Day	0	2	0	0	0	0	0	0	0	0
039	Deuel	0	0	0	0	0	0	1	1	0	1
041	Dewey	1	0	0	1	1	0	0	0	1	1
043	Douglas	0	0	0	0	0	0	1	0	0	0
045	Edmunds	0	0	0	0	0	0	0	0	0	0
047	Fall River	0	0	0	0	0	0	0	0	0	0
049	Faulk	0	1	1	1	1	2	0	0	0	0
051	Grant	1	0	0	0	0	1	0	0	0	2
053	Gregory	0	0	1	0	0	0	0	1	1	0
055	Haakon	0	0	0	0	0	0	0	0	0	0
057	Hamlin	0	0	0	0	0	0	2	0	0	0
059	Hand	0	0	2	0	0	0	0	0	0	0
061	Hanson	0	0	0	0	0	1	0	0	0	0
063	Harding	0	1	0	0	0	0	0	0	0	0
065	Hughes	2	1	1	0	1	0	2	0	0	1
067	Hutchinson	0	0	0	0	0	1	0	0	0	1
069	Hyde	0	0	0	0	0	0	0	0	0	0
071	Jackson	0	0	0	0	0	0	0	0	0	0
073	Jerauld	0	0	0	0	0	0	0	0	0	0
075	Jones	0	0	0	0	0	0	0	0	0	0
077	Kingsbury	0	0	0	0	0	0	0	1	0	1
079	Lake	1	1	0	0	1	0	1	0	0	0
081	Lawrence	1	2	4	2	3	2	0	1	5	1
083	Lincoln	4	5	4	5	6	4	6	4	11	11
085	Lyman	0	0	0	0	0	0	0	0	0	0
087	McCook	0	0	0	1	1	0	0	0	0	0
089	McPherson	0	0	0	0	0	0	0	0	0	0
091	Marshall	0	0	0	0	0	1	0	0	0	0
093	Meade	0	0	0	2	0	1	2	5	2	0
095	Mellette	0	0	0	0	0	0	0	0	0	0
097	Miner	0	0	0	0	0	0	0	0	0	0
099	Minnehaha	6	7	5	6	7	3	4	6	7	13
101	Moody	0	1	0	2	1	0	0	0	1	0
103	Pennington	6	1	8	3	10	6	6	10	2	6
105	Perkins	1	0	0	0	0	0	0	0	0	1
107	Potter	0	0	0	0	0	1	0	0	0	0
109	Roberts	0	0	0	0	1	0	0	1	0	0
111	Sanborn	0	0	0	0	1	0	0	1	1	1
113	Shannon	0	0	0	0	0	0	0	0	0	0
115	Spink	0	0	0	0	0	0	0	0	1	0
117	Stanley	0	0	0	0	0	0	0	0	0	0
119	Sully	0	0	0	0	0	0	0	0	0	0
121	Todd	0	0	0	0	0	0	0	0	0	0
123	Tripp	0	0	1	1	0	0	0	0	0	0
125	Turner	1	0	0	1	0	0	0	1	2	0
127	Union	0	0	0	0	0	4	1	3	4	7
129	Walworth	0	0	0	0	0	0	0	0	0	0
135	Yankton	2	0	0	1	1	1	1	1	2	2
137	Ziebach	0	0	0	1	0	0	0	0	0	0
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	34	28	34	34	45	34	43	46	52	67

TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999

TENNESSEE

Alphabetic Code: TN
Numeric Code: 47

Code	County	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Anderson	12	14	16	21	24	19	19	18	21	22
003	Bedford	1	3	6	2	2	3	2	2	5	0
005	Benton	0	1	0	0	0	0	0	0	0	0
007	Bledsoe	0	0	0	0	0	0	0	1	1	1
009	Blount	11	13	4	6	8	12	11	18	15	19
011	Bradley	3	8	30	23	22	12	9	5	8	7
013	Campbell	0	0	1	1	0	2	0	1	4	4
015	Cannon	0	0	1	0	1	0	0	0	0	2
017	Carroll	2	0	1	1	1	2	1	0	2	0
019	Carter	5	1	4	4	3	6	4	6	8	8
021	Cheatham	2	2	3	1	3	3	0	2	1	1
023	Chester	0	0	0	1	0	0	0	0	1	0
025	Claiborne	0	0	1	0	1	0	0	1	2	2
027	Clay	0	0	0	0	0	0	0	0	0	0
029	Cocke	1	0	1	0	0	0	2	1	3	2
031	Coffee	3	3	3	5	3	4	6	4	6	4
033	Crockett	0	0	0	1	1	0	0	0	0	1
035	Cumberland	1	2	1	2	1	0	1	1	2	3
037	Davidson	46	38	35	48	53	52	49	52	59	62
039	Decatur	0	0	1	0	0	0	4	3	7	7
041	DeKalb	1	1	0	1	0	1	1	0	0	0
043	Dickson	1	2	2	1	1	3	2	0	3	5
045	Dyer	2	2	0	1	2	1	2	0	8	4
047	Fayette	1	0	1	1	1	1	0	0	0	5
049	Fentress	1	0	0	0	1	0	0	0	0	0
051	Franklin	2	1	3	3	4	3	3	4	8	6
053	Gibson	0	1	1	1	2	3	2	1	2	2
055	Giles	2	3	1	1	2	1	3	0	1	0
057	Grainger	0	0	0	0	2	0	0	0	0	0
059	Greene	2	3	6	1	3	2	4	1	7	5
061	Grundy	1	0	0	2	0	0	0	0	1	0
063	Hamblen	1	2	2	4	3	2	3	2	8	9
065	Hamilton	34	48	41	41	39	38	38	34	44	52
067	Hancock	0	0	0	0	2	0	0	0	0	0
069	Hardeman	0	0	0	0	1	0	0	0	3	1
071	Hardin	0	0	0	2	2	0	2	1	0	0
073	Hawkins	47	40	33	40	43	42	32	38	38	48
075	Haywood	1	0	1	0	0	0	0	1	1	0
077	Henderson	2	0	0	3	1	3	0	3	1	1
079	Henry	2	4	6	4	2	1	3	1	2	1
081	Hickman	0	1	0	0	1	0	0	1	0	1
083	Houston	0	1	2	0	0	0	2	1	1	0
085	Humphreys	0	0	2	2	0	1	3	2	4	0
087	Jackson	1	0	0	0	1	0	0	0	2	0
089	Jefferson	4	6	2	3	1	2	7	6	5	3
091	Johnson	0	0	0	0	0	0	0	1	0	1
093	Knox	81	69	57	65	68	81	93	82	127	141
095	Lake	0	0	0	0	0	0	0	0	0	0
097	Lauderdale	0	1	0	1	1	1	0	0	0	1
099	Lawrence	1	0	2	0	0	1	4	2	2	3
101	Lewis	0	0	1	1	1	0	3	0	0	0
103	Lincoln	0	3	1	3	4	3	3	3	5	3
105	Loudon	3	9	4	3	6	5	7	13	12	10
107	McMinn	3	8	9	5	1	3	6	4	2	4
109	McNairy	1	1	2	2	4	0	3	0	2	1
111	Macon	0	0	0	0	0	0	1	0	0	0
113	Madison	4	8	5	9	10	7	9	5	11	21
115	Marion	0	0	0	1	1	0	0	0	0	0
117	Marshall	0	2	1	0	1	1	2	0	1	0
119	Maury	2	2	1	1	2	1	0	1	3	4
121	Meigs	0	1	0	0	0	0	0	0	2	0
123	Monroe	2	2	0	0	0	1	0	1	0	1

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

TENNESSEE		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
125	Montgomery	3	5	4	3	2	6	2	3	8	6
127	Moore	0	0	0	0	0	0	0	0	0	2
129	Morgan	2	1	1	1	2	2	1	1	2	1
131	Obion	3	1	2	1	0	2	3	0	4	2
133	Overton	1	0	0	0	0	2	0	0	0	1
135	Perry	0	0	0	0	0	0	0	0	0	0
137	Pickett	0	0	0	0	0	0	0	0	0	0
139	Polk	1	2	1	0	0	0	0	0	1	1
141	Putnam	6	5	4	5	12	4	9	13	13	15
143	Rhea	2	0	3	1	1	1	1	1	0	3
145	Roane	22	11	12	21	17	17	18	18	30	22
147	Robertson	1	2	2	2	7	6	2	3	2	1
149	Rutherford	10	14	10	10	7	18	9	12	16	16
151	Scott	0	0	0	0	1	2	2	2	1	3
153	Sequatchie	1	1	0	0	0	0	0	1	0	0
155	Sevier	4	1	5	6	1	10	8	12	7	6
157	Shelby	81	77	95	81	97	93	131	149	137	158
159	Smith	0	0	1	0	0	1	2	1	0	5
161	Stewart	0	0	0	0	0	0	0	0	0	0
163	Sullivan	53	47	48	60	53	46	51	49	47	57
165	Sumner	4	9	8	5	14	14	14	15	15	13
167	Tipton	0	1	1	1	2	4	1	1	1	2
169	Trousdale	3	0	1	0	0	0	0	0	0	0
171	Unicoi	1	0	2	1	0	0	2	0	2	0
173	Union	0	0	0	1	1	0	0	1	0	0
175	Van Buren	0	0	0	0	0	0	0	0	0	0
177	Warren	1	1	0	0	3	1	3	2	1	7
179	Washington	6	5	8	14	12	6	5	9	14	15
181	Wayne	1	0	0	0	0	0	0	2	0	0
183	Weakley	1	0	0	1	1	0	0	1	1	3
185	White	0	0	1	1	2	2	2	0	1	1
187	Williamson	9	22	28	21	18	33	18	24	28	38
189	Wilson	5	7	4	1	3	4	5	3	5	4
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	510	518	535	555	592	597	635	646	787	860

TEXAS

Alphabetic Code: TX
Numeric Code: 48

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Anderson	1	0	3	0	0	2	0	0	1	1
003	Andrews	1	0	3	2	0	1	0	0	0	0
005	Angelina	2	1	2	0	2	3	2	2	3	2
007	Aransas	0	0	0	0	0	1	0	0	2	0
009	Archer	5	5	5	8	6	6	4	3	3	3
011	Armstrong	0	0	0	0	0	0	0	0	0	0
013	Atascosa	0	1	2	2	2	0	0	2	1	1
015	Austin	2	6	3	0	4	0	6	2	4	5
017	Bailey	0	0	0	0	0	0	1	2	0	0
019	Bandera	1	1	0	1	0	2	2	0	5	6
021	Bastrop	9	7	12	3	8	7	6	9	31	71
023	Baylor	0	0	0	0	0	0	0	0	0	0
025	Bee	3	1	0	2	1	0	1	0	0	1
027	Bell	3	6	7	8	10	4	7	8	20	23
029	Bexar	105	96	111	106	134	127	140	139	181	231
031	Blanco	0	0	0	1	0	0	0	0	1	2
033	Borden	0	0	0	0	0	0	0	0	0	0
035	Bosque	1	1	1	0	1	1	2	0	3	4
037	Bowie	1	3	2	2	7	0	4	3	3	3
039	Brazoria	146	130	123	123	121	97	83	78	116	89
041	Brazos	15	25	28	39	38	37	38	31	36	52
043	Brewster	1	0	0	0	1	0	0	0	2	0
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

TEXAS		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
045	Briscoe	0	0	0	0	0	0	0	0	0	0
047	Brooks	0	0	0	0	0	1	0	0	0	0
049	Brown	1	1	0	2	1	1	2	1	2	1
051	Burleson	0	1	2	0	0	0	0	1	0	0
053	Burnet	3	1	1	3	7	3	4	5	8	4
055	Caldwell	6	4	4	2	4	2	4	1	2	2
057	Calhoun	1	2	0	0	1	0	0	0	2	2
059	Callahan	0	0	0	0	0	0	1	0	0	1
061	Cameron	4	3	5	1	0	12	6	13	6	9
063	Camp	0	0	0	0	0	0	0	0	0	0
065	Carson	0	0	0	0	0	2	0	2	0	2
067	Cass	1	0	1	0	2	1	4	0	1	0
069	Castro	0	0	0	0	0	1	2	0	0	0
071	Chambers	5	11	9	12	11	11	6	6	11	7
073	Cherokee	7	7	9	6	5	4	4	3	3	7
075	Childress	0	0	0	0	0	0	0	0	0	0
077	Clay	0	0	0	0	0	0	0	0	1	0
079	Cochran	0	0	0	0	0	0	0	0	0	0
081	Coke	0	0	0	1	0	0	1	0	0	0
083	Coleman	0	0	1	0	0	0	0	0	0	0
085	Collin	196	217	223	227	300	298	352	348	474	538
087	Collingsworth	0	1	0	0	1	0	1	0	0	0
089	Colorado	1	0	2	1	5	0	1	1	0	2
091	Comal	4	2	4	7	6	7	6	10	12	15
093	Comanche	0	0	0	0	1	0	0	0	0	0
095	Concho	0	0	0	0	0	0	0	0	0	0
097	Cooke	1	3	0	0	2	2	2	0	5	1
099	Coryell	0	1	0	1	1	1	2	1	2	1
101	Cottle	0	0	0	0	0	0	0	0	0	0
103	Crane	1	0	1	0	0	1	0	1	0	0
105	Crockett	0	0	0	0	0	0	0	0	0	0
107	Crosby	2	0	0	0	0	1	0	0	0	0
109	Culberson	0	0	0	0	0	0	0	0	0	0
111	Dallam	1	1	1	1	0	1	0	0	1	1
113	Dallas	209	211	236	225	271	280	297	274	339	398
115	Dawson	1	1	2	1	2	1	0	0	2	2
117	Deaf Smith	1	1	4	0	0	1	0	0	0	2
119	Delta	0	0	0	0	0	1	0	0	0	1
121	Denton	196	224	223	228	284	288	339	331	422	457
123	DeWitt	1	0	1	1	2	1	0	0	1	0
125	Dickens	0	0	0	0	0	0	0	0	0	0
127	Dimmit	0	0	0	0	0	0	0	1	0	0
129	Donley	0	0	0	0	0	0	0	0	0	0
131	Duval	0	0	0	0	1	0	1	0	0	0
133	Eastland	1	3	0	0	1	2	1	1	1	1
135	Ector	5	6	2	5	7	6	7	8	7	6
137	Edwards	0	0	0	0	0	0	0	0	1	0
139	Ellis	14	7	17	12	11	15	20	15	18	18
141	El Paso	23	23	21	14	12	20	18	19	25	34
143	Erath	1	2	1	0	2	2	1	1	1	3
145	Falls	1	0	0	0	0	3	1	2	4	3
147	Fannin	2	2	1	1	2	2	0	4	7	4
149	Fayette	2	1	1	1	1	2	5	0	1	0
151	Fisher	0	0	0	0	0	0	0	0	0	0
153	Floyd	1	0	0	1	0	0	1	0	0	1
155	Foard	0	0	0	0	0	0	0	0	0	0
157	Fort Bend	328	353	363	354	409	377	352	309	359	388
159	Franklin	5	8	14	7	7	10	7	13	27	30
161	Freestone	0	0	0	1	0	0	1	1	0	0
163	Frio	2	2	2	1	0	0	2	0	0	0
165	Gaines	2	0	0	0	0	1	1	0	1	0
167	Galveston	32	41	45	51	53	44	42	35	60	58
169	Garza	0	0	1	0	0	0	0	0	2	1
171	Gillespie	0	1	1	1	0	1	1	2	1	0
173	Glasscock	0	0	0	0	0	0	0	0	0	0
175	Goliad	0	0	0	0	0	1	0	0	0	2
177	Gonzales	0	0	2	2	0	3	0	1	5	1
179	Gray	3	2	1	2	2	3	5	1	1	2
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

TEXAS		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
181	Grayson	18	17	20	14	16	8	34	33	19	25
183	Gregg	12	12	12	9	9	12	8	4	10	14
185	Grimes	1	0	1	1	1	0	0	4	1	1
187	Guadalupe	5	3	5	7	5	7	5	3	4	9
189	Hale	1	3	1	1	1	2	2	0	1	6
191	Hall	0	0	0	0	0	0	0	0	0	0
193	Hamilton	1	2	4	1	0	0	0	0	1	0
195	Hansford	0	2	2	0	0	1	0	1	2	1
197	Hardeman	2	0	0	0	0	0	0	0	0	1
199	Hardin	1	3	1	4	0	5	3	4	3	1
201	Harris	383	438	441	428	452	457	435	534	695	730
203	Harrison	13	13	10	10	14	15	16	8	14	19
205	Hartley	1	1	1	1	0	1	0	0	1	1
207	Haskell	0	1	0	0	0	0	0	0	0	0
209	Hays	9	5	8	9	7	12	23	23	25	31
211	Hemphill	0	0	0	0	0	0	0	0	0	0
213	Henderson	3	4	1	2	3	3	3	0	3	4
215	Hidalgo	0	2	2	7	5	3	3	5	5	5
217	Hill	0	0	0	1	0	0	0	1	0	0
219	Hockley	1	0	2	3	1	0	0	2	0	1
221	Hood	2	2	1	1	1	4	3	3	8	6
223	Hopkins	2	3	3	2	1	0	1	1	0	0
225	Houston	1	1	1	1	2	2	1	0	0	0
227	Howard	8	10	2	4	4	0	1	3	0	3
229	Hudspeth	0	0	0	0	1	0	0	0	0	0
231	Hunt	17	6	5	7	5	5	5	5	6	4
233	Hutchinson	3	5	2	3	6	5	3	1	2	1
235	Irion	0	0	0	0	0	0	1	0	0	0
237	Jack	1	0	0	0	0	0	0	0	2	0
239	Jackson	0	2	1	1	0	0	0	0	0	0
241	Jasper	0	3	0	0	1	0	0	1	1	0
243	Jeff Davis	0	0	0	0	0	0	0	1	0	1
245	Jefferson	29	18	32	25	33	30	32	14	21	15
247	Jim Hogg	0	0	0	0	0	0	0	1	1	0
249	Jim Wells	1	1	0	1	0	2	0	0	0	0
251	Johnson	3	10	5	6	5	10	11	14	15	17
253	Jones	2	5	3	2	3	5	4	6	3	3
255	Karnes	0	1	0	4	0	1	0	1	1	0
257	Kaufman	47	52	62	62	60	72	76	69	81	87
259	Kendall	5	1	2	0	5	2	1	7	4	15
261	Kenedy	0	0	0	0	0	0	0	0	0	0
263	Kent	0	0	0	0	0	0	0	0	0	0
265	Kerr	3	3	2	4	5	1	4	2	3	3
267	Kimble	0	0	0	0	0	1	1	0	0	0
269	King	0	0	0	0	0	0	0	0	0	0
271	Kinney	0	0	0	1	0	0	0	0	0	1
273	Kleberg	10	8	10	10	15	12	11	10	11	11
275	Knox	0	0	0	0	0	0	0	0	0	0
277	Lamar	1	3	1	3	2	0	1	2	0	1
279	Lamb	0	0	0	0	0	0	0	0	1	1
281	Lampasas	0	0	0	1	0	2	0	1	0	0
283	La Salle	0	0	0	1	0	0	0	0	1	0
285	Lavaca	2	2	2	2	2	2	1	0	1	2
287	Lee	0	1	1	0	0	1	1	1	4	2
289	Leon	0	0	2	0	0	0	0	0	2	1
291	Liberty	0	3	4	2	2	1	0	5	1	3
293	Limestone	1	1	0	0	1	0	0	1	1	0
295	Lipscomb	0	0	0	0	0	0	0	1	0	0
297	Live Oak	0	0	0	0	0	1	1	0	1	0
299	Llano	2	0	0	0	2	0	2	1	2	1
301	Loving	0	0	0	0	0	0	0	0	0	0
303	Lubbock	21	24	14	15	21	24	25	25	24	29
305	Lynn	1	0	2	1	1	1	1	1	1	1
307	McCulloch	0	0	0	1	0	0	0	0	0	0
309	McLennan	4	7	6	10	16	12	16	10	12	9
311	McMullen	0	0	0	0	0	0	0	0	0	0
313	Madison	0	0	0	1	0	0	0	0	0	0
315	Marion	1	0	0	0	0	0	0	0	0	0
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

TEXAS		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
317	Martin	5	5	8	8	14	8	7	7	8	6
319	Mason	0	0	0	0	0	0	0	0	0	0
321	Matagorda	0	1	0	0	4	1	0	2	2	0
323	Maverick	0	0	0	0	0	0	1	0	0	0
325	Medina	1	2	3	2	4	0	3	1	5	6
327	Menard	0	0	0	0	0	0	0	0	0	0
329	Midland	10	10	10	13	21	13	14	15	14	12
331	Milam	1	1	0	3	1	1	0	2	3	3
333	Mills	1	0	1	0	1	0	0	0	1	0
335	Mitchell	0	1	0	0	0	0	0	0	0	0
1023	Montague	0	0	0	1	1	1	0	1	1	0
339	Montgomery	281	303	337	302	345	327	316	285	349	367
341	Moore	1	2	1	0	0	0	2	2	0	1
343	Morris	3	2	0	1	1	0	1	0	0	0
345	Motley	0	1	0	2	0	0	0	0	0	0
347	Nacogdoches	2	2	1	2	4	4	7	5	5	5
349	Navarro	0	3	1	0	1	2	2	1	0	0
351	Newton	0	0	0	0	0	0	0	0	0	0
353	Nolan	0	1	0	0	0	0	0	0	0	0
355	Nueces	10	11	13	14	14	13	12	12	20	11
357	Ochiltree	2	1	1	1	1	0	0	0	1	0
359	Oldham	0	0	0	0	0	1	0	0	0	0
361	Orange	8	16	10	17	10	12	17	8	9	8
363	Palo Pinto	1	1	1	1	1	1	1	4	3	4
365	Panola	0	1	0	0	0	0	0	1	1	1
367	Parker	10	11	13	13	14	11	7	10	10	20
369	Parmer	0	0	0	0	0	0	0	0	0	0
371	Pecos	2	1	0	0	1	0	0	0	0	0
373	Polk	3	5	2	4	3	0	2	1	4	2
375	Potter	5	5	5	6	7	4	5	5	8	6
377	Presidio	0	0	0	0	0	0	0	0	0	0
379	Rains	0	0	0	0	0	0	0	0	0	0
381	Randall	6	7	8	13	12	9	9	8	11	8
383	Reagan	1	0	0	0	0	0	0	0	0	0
385	Real	0	0	0	1	0	0	0	0	0	0
387	Red River	0	0	0	0	1	0	1	0	0	0
389	Reeves	0	0	0	1	0	0	0	2	0	0
391	Refugio	0	0	0	0	1	0	0	0	0	1
393	Roberts	0	0	0	0	0	0	0	0	0	0
395	Robertson	0	0	1	0	0	0	0	0	0	0
397	Rockwall	68	75	82	80	99	99	110	105	128	138
399	Runnels	0	0	0	0	0	0	0	0	0	0
401	Rusk	1	2	1	3	3	2	2	2	3	2
403	Sabine	1	2	0	0	0	0	0	0	0	1
405	San Augustine	0	0	0	0	0	0	0	0	1	1
407	San Jacinto	1	0	0	1	1	3	5	5	7	12
409	San Patricio	11	12	15	12	19	14	12	13	13	14
411	San Saba	0	0	1	0	0	0	0	1	1	0
413	Schleicher	0	0	0	0	0	0	0	0	0	0
415	Scurry	1	2	2	1	1	1	1	0	1	1
417	Shackelford	0	1	0	0	0	0	0	0	0	0
419	Shelby	1	1	1	2	1	1	0	2	0	2
421	Sherman	0	0	0	0	0	0	0	0	0	0
423	Smith	8	11	18	12	14	19	11	19	20	16
425	Somervell	0	0	0	0	1	0	1	1	1	2
427	Starr	0	0	0	0	0	0	0	0	0	1
429	Stephens	0	0	0	0	0	0	0	0	0	0
431	Sterling	0	0	0	0	0	0	0	0	0	0
433	Stonewall	0	0	0	0	0	0	0	0	0	0
435	Sutton	0	0	0	0	0	0	0	0	0	0
437	Swisher	2	0	2	0	0	0	1	2	0	0
439	Tarrant	131	128	154	158	180	194	230	220	264	243
441	Taylor	2	4	3	2	5	5	5	7	4	5
443	Terrell	0	0	0	0	0	0	0	0	0	0
445	Terry	1	0	0	0	2	0	1	0	1	0
447	Throckmorton	0	0	0	0	0	0	0	0	0	1
449	Titus	2	1	2	0	1	2	1	2	3	5
451	Tom Green	5	4	4	4	2	3	0	1	5	3
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

TEXAS		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
453	Travis	162	189	213	258	288	333	397	433	691	736
455	Trinity	0	0	1	0	0	1	0	0	0	0
457	Tyler	2	0	1	0	0	0	2	1	0	1
459	Upshur	1	2	2	4	1	1	2	2	1	2
461	Upton	1	2	1	0	0	0	1	1	0	0
463	Uvalde	0	1	0	0	0	2	0	0	0	0
465	Val Verde	0	0	0	0	0	2	2	0	0	0
467	Van Zandt	0	3	1	1	2	0	3	2	4	2
469	Victoria	2	7	3	4	2	2	3	2	4	6
471	Walker	3	3	6	5	2	2	2	1	3	4
473	Waller	12	18	11	12	15	17	14	13	30	72
475	Ward	1	0	0	0	0	0	0	3	0	1
477	Washington	3	1	2	0	4	0	7	1	3	1
479	Webb	1	2	1	1	4	1	1	0	3	0
481	Wharton	0	2	2	5	3	4	0	2	2	3
483	Wheeler	0	0	0	1	1	1	0	0	0	0
485	Wichita	5	5	5	8	8	6	6	3	8	6
487	Wilbarger	0	0	1	0	2	0	0	1	0	0
489	Willacy	0	0	0	1	1	0	0	0	0	0
491	Williamson	168	197	220	264	292	329	401	422	691	731
493	Wilson	1	0	2	1	0	1	7	2	0	2
495	Winkler	1	0	0	0	0	0	0	2	0	1
497	Wise	2	1	2	2	3	4	3	0	6	6
499	Wood	1	2	2	0	0	1	0	1	1	2
501	Yoakum	0	0	0	0	0	0	0	0	1	0
503	Young	1	3	1	1	1	5	1	2	2	0
505	Zapata	0	0	0	0	0	0	0	0	0	0
507	Zavala	0	1	0	0	0	0	0	0	0	0
999	UNKNOWN	0	1	0	1	0	1	0	0	0	0
	TOTAL	2933	3180	3355	3387	3877	3887	4170	4145	5578	6049

UTAH

**Alphabetic Code: UT
Numeric Code: 49**

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Beaver	0	1	0	0	0	0	0	0	3	1
003	Box Elder	3	6	6	3	13	25	14	23	8	8
005	Cache	29	37	27	28	30	49	35	53	43	39
007	Carbon	0	0	0	2	1	0	0	1	3	3
009	Daggett	0	0	0	0	0	0	0	0	0	0
011	Davis	24	30	27	36	51	43	61	76	62	69
013	Duchesne	0	1	2	2	2	2	1	0	1	3
015	Emery	0	0	0	0	2	0	3	1	2	1
017	Garfield	0	0	0	0	0	0	0	0	0	0
019	Grand	1	0	0	1	0	0	1	0	0	0
021	Iron	0	1	2	0	3	4	2	1	3	0
023	Juab	0	0	1	0	0	0	0	0	0	1
025	Kane	0	0	0	0	0	0	0	0	0	1
027	Millard	0	1	0	0	0	1	0	0	2	0
029	Morgan	0	0	0	0	1	3	1	0	0	4
031	Piute	0	0	0	0	0	0	0	0	0	0
033	Rich	0	0	0	0	0	0	0	0	0	0
035	Salt Lake	185	197	214	234	208	233	257	295	340	350
037	San Juan	0	2	1	2	0	0	0	0	2	0
039	Sanpete	0	4	2	1	3	5	0	6	4	4
041	Sevier	0	1	2	1	2	0	3	1	2	1
043	Summit	1	2	2	5	7	6	9	9	8	5
045	Tooele	0	0	0	1	0	3	1	2	6	1
047	Uintah	2	0	2	5	1	1	1	1	0	1
049	Utah	47	46	58	51	47	53	52	69	92	122
051	Wasatch	2	4	2	8	13	6	12	11	9	5
053	Washington	3	2	2	4	2	8	6	6	6	5

(continued)

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

UTAH		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
055	Wayne	0	0	0	0	0	0	0	0	0	0
057	Weber	27	36	28	37	36	67	83	60	70	55
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	324	371	378	421	422	509	542	615	666	679

VERMONT

Alphabetic Code: VT
Numeric Code: 50

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Addison	5	7	9	6	7	5	9	5	7	9
003	Bennington	6	7	2	5	3	4	5	10	7	13
005	Caledonia	2	1	3	7	2	3	9	2	4	3
007	Chittenden	68	55	63	67	66	91	168	198	237	235
009	Essex	2	0	0	0	0	0	0	0	0	0
011	Franklin	3	2	1	3	5	4	7	5	2	7
013	Grand Isle	0	3	3	2	0	2	4	15	7	7
015	Lamoille	4	3	1	4	4	4	6	4	6	12
017	Orange	8	3	3	5	0	6	5	2	8	4
019	Orleans	5	1	1	1	4	1	1	1	0	3
021	Rutland	4	3	5	4	10	6	6	12	6	7
023	Washington	5	3	5	8	14	3	8	5	7	9
025	Windham	4	1	7	5	9	4	8	6	8	9
027	Windsor	14	12	13	13	16	15	16	12	24	23
999	UNKNOWN	0	0	1	0	0	1	2	0	0	0
	TOTAL	130	101	117	130	140	149	254	277	323	341

VIRGINIA

Alphabetic Code: VA
Numeric Code: 51

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Accomack	0	1	1	0	1	0	1	0	1	0
003	Albemarle	14	7	7	7	3	5	5	5	8	9
005	Alleghany	0	0	0	0	0	0	0	0	0	0
007	Amelia	0	0	0	0	0	0	0	0	0	1
009	Amherst	0	3	0	0	1	2	3	1	2	2
011	Appomatox	0	1	1	1	0	0	1	1	0	0
013	Arlington	16	40	32	17	29	22	19	24	47	28
015	Augusta	3	2	0	1	6	2	5	5	1	4
017	Bath	0	0	0	0	0	0	0	1	0	0
019	Bedford	10	18	21	15	15	12	9	13	26	26
021	Bland	0	0	0	1	0	0	0	0	0	0
023	Botetourt	2	1	3	10	13	6	5	3	10	7
025	Brunswick	0	0	0	0	0	2	0	1	0	0
027	Buchanan	0	0	0	2	0	2	0	0	0	1
029	Buckingham	0	0	1	0	0	0	0	0	0	0
031	Campbell	1	3	4	3	2	3	1	3	4	2
033	Caroline	1	2	0	0	0	1	3	2	2	0
035	Carroll	1	2	0	0	1	0	1	0	0	1
036	Charles City	0	0	0	0	0	0	0	0	0	0
037	Charlotte	0	0	0	0	0	0	0	0	0	0
041	Chesterfield	34	43	50	60	54	45	48	61	40	43
043	Clarke	1	0	1	0	0	3	0	1	0	1
045	Craig	0	0	0	0	0	0	1	1	1	0
047	Culpeper	1	1	2	0	3	0	5	0	0	4
049	Cumberland	0	0	1	1	0	0	1	0	0	1
051	Dickenson	1	1	1	0	0	0	2	1	1	0
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

VIRGINIA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
053	Dinwiddie	0	0	0	1	0	0	1	0	0	0
057	Essex	0	0	0	0	0	0	0	0	1	0
059	Fairfax	125	93	121	101	129	130	163	155	222	205
061	Fauquier	7	6	3	9	11	6	8	10	13	10
063	Floyd	0	0	0	0	1	0	0	0	2	0
065	Fluvanna	2	0	1	3	3	1	0	2	2	2
067	Franklin	1	1	1	2	2	1	0	3	3	1
069	Frederick	2	0	1	2	1	2	4	4	1	3
071	Giles	1	1	3	0	1	0	0	0	0	0
073	Gloucester	2	4	9	3	6	1	1	2	6	4
075	Goochland	5	0	2	6	5	2	2	1	1	2
077	Grayson	1	1	2	0	2	0	1	0	5	4
079	Greene	0	0	1	0	0	0	0	0	0	0
081	Greensville	0	0	0	0	0	0	1	0	0	0
083	Halifax	0	0	0	1	1	0	1	1	1	0
085	Hanover	7	13	13	14	5	8	11	8	8	11
087	Henrico	0	7	7	9	7	5	3	8	6	11
089	Henry	0	0	2	0	0	1	2	1	2	1
091	Highland	0	2	1	1	7	4	3	0	0	1
093	Isle of Wight	1	0	0	0	2	1	5	3	6	5
095	James City	0	1	0	0	0	0	0	0	0	0
097	King and Queen	0	0	0	0	0	0	0	1	1	0
099	King George	5	6	8	4	8	6	9	10	13	14
101	King William	2	0	0	0	0	1	0	0	0	0
103	Lancaster	2	1	1	0	2	4	1	5	1	0
105	Lee	1	0	1	2	0	1	0	1	0	1
107	Loudoun	10	13	16	16	9	23	25	29	35	32
109	Louisa	2	1	1	1	0	1	1	2	4	1
111	Lunenburg	0	0	0	0	0	0	0	0	0	0
113	Madison	1	1	2	1	1	1	0	0	1	1
115	Mathews	1	0	0	1	3	0	1	1	0	2
117	Mecklenburg	1	1	3	1	0	2	2	2	1	0
119	Middlesex	2	2	2	2	1	1	2	0	2	3
121	Montgomery	18	25	34	25	39	34	32	33	39	48
125	Nelson	3	2	2	2	3	2	0	0	4	2
127	New Kent	2	1	2	4	3	0	1	1	1	2
131	Northampton	0	0	1	0	1	0	0	0	0	1
133	Northumberland	0	0	0	0	0	1	1	1	2	2
135	Nottoway	0	0	0	0	1	2	0	0	0	0
137	Orange	1	3	1	2	1	2	1	0	2	4
139	Page	2	0	3	0	0	0	1	0	0	1
141	Patrick	1	0	0	0	1	1	0	1	0	1
143	Pittsylvania	0	0	4	0	2	0	4	1	5	4
145	Powhatan	5	2	1	4	5	3	4	2	5	1
147	Prince Edward	0	0	1	1	0	0	1	0	0	1
149	Prince George	0	0	0	1	1	1	0	0	1	2
153	Prince William	14	15	9	21	11	19	15	16	16	19
155	Pulaski	1	2	2	2	1	1	5	1	1	1
157	Rappahannock	0	1	1	2	1	0	0	0	1	1
159	Richmond	0	0	1	2	1	0	0	0	0	0
161	Roanoke	0	0	1	1	1	2	1	5	5	4
163	Rockbridge	0	0	0	1	0	1	0	0	0	0
165	Rockingham	0	8	7	2	1	3	6	2	2	3
167	Russell	0	0	2	1	0	0	1	0	2	3
169	Scott	2	1	1	0	1	0	0	0	0	1
171	Shenandoah	1	1	3	2	2	4	3	1	3	4
173	Smyth	5	0	3	3	3	2	4	3	3	3
175	Southampton	0	2	0	1	0	0	0	0	0	0
177	Spotsylvania	1	2	1	2	1	2	1	0	0	2
179	Stafford	6	7	2	3	1	4	6	5	3	5
181	Surry	0	0	0	0	0	0	0	0	0	0
183	Sussex	0	1	0	1	1	1	1	0	0	1
185	Tazewell	2	2	0	2	3	2	1	0	1	3
187	Warren	0	1	0	2	1	3	4	2	0	4
191	Washington	2	2	10	11	8	7	3	6	9	13
193	Westmoreland	1	0	0	1	2	1	2	3	2	2
195	Wise	0	1	0	2	0	0	1	1	2	1
197	Wythe	0	0	0	1	1	0	0	1	0	1
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

VIRGINIA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
199	York	18	16	23	33	16	17	23	24	19	17
510	Alexandria (city)	56	51	41	58	54	55	42	42	62	59
515	Bedford (city)	0	1	2	1	1	4	2	1	2	4
520	Bristol (city)	2	2	3	4	6	3	5	2	2	3
530	Buena Vista (city)	0	0	0	0	1	1	1	0	1	0
540	Charlottesville (city)	22	33	15	18	20	17	28	25	38	33
550	Chesapeake (city)	9	5	7	4	6	6	7	7	7	11
560	Clifton Forge (city)	1	0	0	3	3	2	0	3	2	1
570	Colonial Heights (city)	2	3	3	3	0	0	0	1	1	0
580	Covington (city)	5	4	5	3	6	7	2	5	11	11
590	Danville (city)	1	2	2	0	1	1	1	0	1	1
595	Emporia (city)	0	0	0	0	0	0	0	2	0	0
600	Fairfax (city)	20	12	13	15	20	24	19	14	31	31
610	Falls Church (city)	13	29	16	15	22	19	12	8	20	17
620	Franklin (city)	0	1	2	0	0	0	1	0	1	0
630	Fredericksburg (city)	13	10	9	10	9	3	2	7	6	8
640	Galax (city)	1	2	0	1	0	1	1	0	1	0
650	Hampton (city)	8	14	9	12	13	10	8	9	12	11
660	Harrisonburg (city)	3	1	3	6	2	1	5	3	3	3
670	Hopewell (city)	3	5	6	3	3	2	3	1	4	0
678	Lexington (city)	1	1	2	4	2	5	1	2	1	4
680	Lynchburg (city)	32	20	46	31	21	27	23	29	27	22
683	Manassas (city)	10	17	18	14	15	20	20	8	16	19
685	Manassas Park (city)	1	0	0	0	1	0	1	1	1	1
690	Martinsville (city)	1	1	5	4	1	1	0	1	0	4
700	Newport News (city)	24	34	27	34	24	24	22	10	24	22
710	Norfolk (city)	8	11	10	14	11	10	21	8	21	10
720	Norton (city)	0	0	0	0	0	0	1	0	0	0
730	Petersburg (city)	3	2	1	1	0	1	0	0	1	3
735	Poquoson (city)	7	1	9	8	8	6	3	4	5	0
740	Portsmouth (city)	2	0	2	3	3	2	0	2	3	1
750	Radford (city)	2	1	0	1	0	5	2	2	3	1
760	Richmond (city)	72	98	104	78	67	65	70	69	57	71
770	Roanoke (city)	22	29	26	31	38	22	19	18	26	21
775	Salem (city)	6	12	14	10	7	8	7	4	7	5
780	South Boston (city)	2	0	0	0	0	0	1	0	0	0
790	Staunton (city)	2	2	0	3	3	2	3	4	1	5
800	Suffolk (city)	0	2	4	5	0	2	0	2	3	3
810	Virginia Beach (city)	23	21	24	23	23	22	18	22	20	35
820	Waynesboro (city)	3	8	5	5	5	5	9	6	7	7
830	Williamsburg (city)	10	13	20	16	14	12	17	14	17	10
840	Winchester (city)	5	10	4	5	2	4	9	4	1	10
999	UNKNOWN	0	0	0	0	0	1	0	0	0	0
	TOTAL	746	832	898	879	860	822	865	821	1054	1048

WASHINGTON

Alphabetic Code: WA
Numeric Code: 53

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adams	1	1	0	0	2	0	0	0	2	1
003	Asotin	2	1	0	0	1	1	3	1	2	3
005	Benton	36	31	40	40	29	33	36	44	57	50
007	Chelan	4	2	4	2	3	5	3	1	3	3
009	Clallam	5	3	2	1	3	10	3	4	7	8
011	Clark	39	44	50	42	57	73	64	81	116	145
013	Columbia	0	0	0	0	0	0	0	0	0	0
015	Cowlitz	6	7	2	3	8	6	6	5	9	6
017	Douglas	1	1	2	1	0	3	2	2	2	3
019	Ferry	0	0	0	0	0	0	0	0	0	0
021	Franklin	4	0	4	3	6	7	3	4	5	5
023	Garfield	0	0	0	0	0	1	0	1	0	1
025	Grant	5	3	1	1	3	4	2	4	3	3
027	Grays Harbor	4	14	4	7	7	8	7	6	2	4
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

WASHINGTON		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
029	Island	4	4	2	7	5	8	10	5	2	3
031	Jefferson	0	2	3	7	2	4	4	5	11	2
033	King	484	518	534	489	520	560	661	821	1117	1159
035	Kitsap	9	10	15	27	24	14	35	28	37	46
037	Kittitas	2	1	2	1	2	2	2	3	3	6
039	Klickitat	1	3	1	0	2	0	1	7	9	4
041	Lewis	1	6	0	3	3	7	7	6	10	7
043	Lincoln	0	1	1	1	2	1	1	2	1	0
045	Mason	2	2	2	0	2	2	3	3	3	0
047	Okanogan	1	1	0	1	2	0	0	1	1	2
049	Pacific	0	0	1	3	2	1	1	0	3	1
051	Pend Oreille	0	0	0	1	0	1	0	0	2	3
053	Pierce	61	60	59	50	55	53	38	54	49	64
055	San Juan	1	2	3	6	7	1	5	4	3	2
057	Skagit	7	16	8	8	15	12	10	9	10	19
059	Skamania	1	2	1	0	1	1	0	0	1	0
061	Snohomish	85	101	86	85	80	101	132	137	156	134
063	Spokane	42	39	42	52	47	42	38	41	50	51
065	Stevens	2	3	4	0	3	0	0	3	2	2
067	Thurston	5	8	5	3	8	11	9	10	15	12
069	Wahkiakum	0	0	0	0	0	0	0	0	0	0
071	Walla Walla	2	6	5	3	11	9	6	6	7	9
073	Whatcom	29	33	21	26	23	32	33	26	42	30
075	Whitman	7	13	15	8	10	9	4	14	13	22
077	Yakima	19	14	12	15	14	14	16	14	21	15
999	UNKNOWN	0	1	0	1	1	0	0	0	0	2
	TOTAL	872	953	931	897	960	1036	1145	1352	1776	1827

WEST VIRGINIA

Alphabetic Code: WV
Numeric Code: 54

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Barbour	0	1	0	0	0	0	0	1	0	0
003	Berkeley	3	1	2	1	0	2	1	2	6	5
005	Boone	0	3	0	0	1	0	2	0	0	3
007	Braxton	0	2	0	0	0	2	2	0	0	0
009	Brooke	6	7	3	9	10	11	6	11	7	3
011	Cabell	13	8	8	9	9	3	2	2	5	5
013	Calhoun	0	0	0	1	0	0	0	1	0	0
015	Clay	0	1	1	0	0	0	1	1	0	0
017	Doddridge	0	0	0	0	0	0	0	1	0	0
019	Fayette	3	0	2	4	1	2	0	1	1	3
021	Gilmer	0	0	0	0	0	0	0	0	0	0
023	Grant	0	1	1	0	0	1	0	1	0	0
025	Greenbrier	1	4	2	0	0	1	3	2	0	2
027	Hampshire	0	0	0	1	1	2	1	1	1	0
029	Hancock	2	2	3	4	2	2	2	9	5	5
031	Hardy	1	0	0	0	0	3	0	0	0	0
033	Harrison	6	1	7	6	1	0	2	3	1	0
035	Jackson	0	0	0	1	2	2	2	2	1	0
037	Jefferson	0	2	3	4	3	4	4	2	2	2
039	Kanawha	58	51	60	58	31	28	23	30	48	39
041	Lewis	0	1	0	0	0	0	0	2	0	0
043	Lincoln	0	1	0	1	0	0	0	0	2	1
045	Logan	1	1	0	0	0	0	1	0	0	0
047	McDowell	0	0	0	1	0	0	0	0	0	0
049	Marion	3	0	7	2	2	4	3	2	6	2
051	Marshall	3	4	4	5	10	6	3	9	10	8
053	Mason	0	0	1	0	1	0	0	0	0	1
055	Mercer	5	1	3	1	2	2	3	1	2	4
057	Mineral	1	2	1	0	2	0	1	0	1	0
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

WEST VIRGINIA		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
059	Mingo	0	0	0	0	0	0	0	0	0	3
061	Monongalia	12	11	12	13	9	9	16	13	17	14
063	Monroe	0	0	0	0	0	0	0	0	0	0
065	Morgan	0	2	2	1	2	1	0	1	6	2
067	Nicholas	0	1	0	0	1	0	0	0	3	0
069	Ohio	1	3	2	2	3	2	3	1	1	4
071	Pendleton	0	0	0	0	1	0	0	0	0	0
073	Pleasants	0	1	1	0	0	0	0	0	0	0
075	Pocahontas	0	0	0	0	0	2	0	0	1	0
077	Preston	0	0	2	1	2	1	1	1	0	1
079	Putnam	2	2	13	20	12	12	5	9	7	6
081	Raleigh	2	2	8	1	3	1	3	4	5	5
083	Randolph	0	0	1	0	0	0	0	1	1	0
085	Ritchie	0	0	1	0	1	1	1	0	2	0
087	Roane	0	0	0	0	0	1	0	1	1	1
089	Summers	1	0	0	0	0	0	0	0	0	0
091	Taylor	0	0	0	0	1	1	0	0	1	1
093	Tucker	0	0	0	0	0	0	0	0	4	0
095	Tyler	1	1	1	3	2	1	0	0	4	3
097	Upshur	1	0	1	1	0	1	0	2	0	2
099	Wayne	8	6	6	4	6	2	3	2	3	3
101	Webster	0	0	0	1	0	0	0	0	0	0
103	Wetzel	0	3	8	3	3	3	3	2	8	8
105	Wirt	0	0	0	0	1	0	0	0	0	0
107	Wood	23	37	18	18	19	23	19	29	33	17
109	Wyoming	0	1	0	0	0	0	0	0	0	0
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	157	164	184	176	144	136	116	150	195	153

WISCONSIN

Alphabetic Code: WI
Numeric Code: 55

Code	County Name	Year of Utility Patent Grant									
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Adams	1	3	0	0	2	0	0	0	0	1
003	Ashland	0	2	0	1	0	0	2	1	3	2
005	Barron	1	5	0	1	3	4	6	7	12	3
007	Bayfield	1	1	0	0	2	0	0	2	2	0
009	Brown	21	30	44	21	27	31	40	32	34	43
011	Buffalo	0	2	0	0	3	0	0	3	4	1
013	Burnett	0	2	0	1	0	0	0	1	0	1
015	Calumet	21	23	28	24	24	30	31	41	40	50
017	Chippewa	10	15	31	32	24	22	19	17	30	27
019	Clark	3	5	3	2	3	1	2	0	2	5
021	Columbia	6	7	9	6	7	9	6	9	12	10
023	Crawford	2	2	0	0	0	0	1	1	1	0
025	Dane	91	139	143	144	141	164	202	226	258	261
027	Dodge	21	22	25	19	24	17	25	24	39	34
029	Door	3	2	1	3	2	0	2	2	4	0
031	Douglas	0	0	2	1	3	1	2	2	1	6
033	Dunn	6	1	2	3	0	3	5	4	4	5
035	Eau Claire	5	5	9	8	11	11	12	12	18	22
037	Florence	0	0	0	0	0	0	0	0	0	0
039	Fond du Lac	43	19	42	24	16	21	13	13	27	37
041	Forest	0	0	0	0	1	0	0	0	0	1
043	Grant	1	1	0	0	3	1	5	4	8	3
045	Green	1	3	3	3	5	6	5	3	4	3
047	Green Lake	1	0	0	3	1	1	1	2	2	2
049	Iowa	2	1	0	1	3	3	3	3	4	3
051	Iron	1	0	0	1	1	0	1	1	1	3
053	Jackson	0	0	3	1	0	1	0	0	0	0
055	Jefferson	16	12	11	11	11	13	11	7	11	16
057	Juneau	0	2	2	2	2	1	0	1	3	2
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

WISCONSIN		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
059	Kenosha	27	21	14	43	20	43	30	29	31	46
061	Kewaunee	0	2	0	0	0	0	0	0	2	2
063	La Crosse	8	17	12	19	11	12	23	17	18	23
065	Lafayette	0	0	0	2	1	0	1	0	2	0
067	Langlade	1	2	3	0	1	0	0	1	1	4
069	Lincoln	1	1	2	1	2	3	0	0	3	3
071	Manitowoc	12	23	12	18	20	29	22	22	15	27
073	Marathon	21	23	20	25	22	14	19	23	19	11
075	Marinette	4	2	2	3	1	1	2	3	4	0
077	Marquette	0	0	0	1	2	0	0	0	0	1
078	Menominee	0	0	0	0	0	0	0	0	0	0
079	Milwaukee	126	97	111	124	104	126	146	104	127	142
081	Monroe	0	0	4	1	1	1	1	1	1	3
083	Oconto	3	4	1	0	0	0	1	4	6	1
085	Oneida	1	3	0	1	3	1	1	1	1	2
087	Outagamie	24	23	27	19	15	28	44	50	53	48
089	Ozaukee	51	36	47	41	72	55	45	45	63	46
091	Pepin	0	0	0	0	0	0	0	0	0	1
093	Pierce	7	6	4	9	12	14	13	12	6	14
095	Polk	3	1	5	4	5	5	8	5	7	5
097	Portage	3	1	7	5	4	1	2	2	3	5
099	Price	2	4	8	3	3	5	8	12	9	14
101	Racine	61	53	64	38	55	49	50	64	71	94
103	Richland	1	0	1	1	0	1	0	1	0	2
105	Rock	31	31	26	27	28	23	32	22	38	39
107	Rusk	2	0	1	1	0	1	0	3	0	1
109	St. Croix	28	23	31	44	37	41	54	55	46	45
111	Sauk	10	11	11	11	6	8	6	3	9	6
113	Sawyer	1	0	2	0	0	2	2	1	1	1
115	Shawano	1	2	4	3	2	1	5	1	2	2
117	Sheboygan	36	50	38	47	37	41	34	37	44	36
119	Taylor	0	1	1	0	0	0	2	0	1	0
121	Trempealeau	1	1	2	2	0	5	5	5	6	1
123	Vernon	0	4	4	2	7	6	1	0	2	4
125	Vilas	2	0	2	2	3	0	3	1	1	2
127	Walworth	8	14	15	20	14	16	14	16	25	33
129	Washburn	0	0	0	1	0	0	1	1	2	2
131	Washington	66	48	49	57	66	61	45	44	62	58
133	Waukesha	168	201	178	191	220	209	210	194	250	284
135	Waupaca	6	7	8	5	6	2	6	3	5	8
137	Waushara	3	4	3	1	4	3	2	3	4	3
139	Winnebago	97	71	69	54	59	62	87	91	100	115
141	Wood	2	5	10	5	9	5	7	10	12	6
999	UNKNOWN	0	0	0	0	0	0	0	0	0	0
	TOTAL	1075	1096	1156	1143	1171	1214	1326	1304	1576	1681

WYOMING

Alphabetic Code: WY
Numeric Code: 56

County		Year of Utility Patent Grant									
Code	Name	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
001	Albany	2	4	2	6	7	7	3	14	10	8
003	Big Horn	1	0	1	0	0	2	1	1	0	0
005	Campbell	4	4	4	3	4	3	0	1	3	3
007	Carbon	0	2	1	0	0	2	2	1	1	0
009	Converse	0	0	0	0	2	1	1	0	0	0
011	Crook	1	0	1	0	0	1	0	1	0	1
013	Fremont	2	0	3	1	3	2	1	5	2	2
015	Goshen	0	3	1	0	1	1	1	1	0	3
017	Hot Springs	1	0	0	0	0	1	0	0	0	0
019	Johnson	0	0	0	1	1	0	1	0	0	0
021	Laramie	1	8	4	5	1	2	6	1	6	2
023	Lincoln	0	5	2	1	3	3	0	4	3	2
	<i>(continued)</i>										

**TABLE 3. Utility Patent Grants By State, County, And County Equivalents,
United States And U.S. Possessions, 1990-1999**

WYOMING		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>(continued)</i>										
025	Natrona	5	3	4	5	9	5	2	6	8	8
027	Niobrara	0	2	0	0	0	0	0	0	0	0
029	Park	3	4	1	3	3	6	4	3	2	7
031	Platte	1	0	1	0	1	0	2	1	0	1
033	Sheridan	1	3	0	1	3	4	2	2	2	2
035	Sublette	0	0	0	0	0	0	0	1	0	4
037	Sweetwater	2	1	4	6	1	4	2	5	6	4
039	Teton	1	4	5	1	1	2	2	3	2	5
041	Uinta	2	0	0	0	2	2	3	2	0	0
043	Washakie	0	0	1	1	0	0	0	0	0	0
045	Weston	1	0	0	0	1	1	1	0	0	0
999	UNKNOWN	0	0	0	1	0	0	0	0	0	0
	TOTAL	28	43	35	35	43	49	34	52	45	52

	Year of Utility Patent Grant									
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
TOTAL U.S. COUNTIES	47482	51285	52350	53318	56132	55813	61172	61794	80384	83994
U.S. TERRITORIES AND POSSESSIONS										
U.S. PACIFIC ISLANDS	0	0	0	0	0	0	0	1	0	0
GUAM	0	1	0	1	0	0	1	1	5	4
PUERTO RICO	13	17	19	16	24	22	23	11	23	27
U.S. VIRGIN ISLANDS	2	3	1	3	2	1	1	2	3	2
OTHER U.S.	0	2	6	2	2	0	3	4	2	2
TOTAL	15	23	26	22	28	23	28	19	33	35
TOTAL, U.S.	47497	51308	52376	53340	56160	55836	61200	61813	80417	84029

Note: State and national totals may differ slightly from other published data due to cumulative rounding error (approximately two-tenths of one percent).