

Geography and Environment

This section presents a variety of information on the physical environment of the United States, starting with basic area measurement data and ending with climatic data for selected weather stations around the country. The subjects covered between those points are mostly concerned with environmental trends, but include such related subjects as land use, water consumption, air pollutant emissions, toxic releases, oil spills, hazardous waste sites, threatened and endangered wildlife, and weather-related events.

The information in this section is selected from a wide range of federal agencies that compile the data for various administrative or regulatory purposes, such as the Environmental Protection Agency, U.S. Geological Survey, National Oceanic and Atmospheric Administration, Soil Conservation Service, and General Services Administration. Other agencies include the Bureau of the Census, which presents nationwide area measurement information and the Bureau of Economic Analysis, which compiles data on pollution abatement and control expenditures.

Area—For the 1990 census, area measurements were calculated by computer based on the information contained in a single, consistent geographic database, the TIGER™ File (described below), rather than relying on historical, local, and manually calculated information. This especially affects water area figures reported in 1990; these had only included those bodies of water of least 40 acres and those streams with a width of at least one-eighth of a statute mile from 1940 to 1980. Water area figures for 1990 increased because the data reflected all water recorded in the Census Bureau's geographic database including coastal, Great Lakes, and territorial waters.

Geography—The U.S. Geological Survey conducts investigations, surveys, and research in the fields of geography,

In Brief

Wastewater treatment facilities served almost 190 million people in 1996 or 72 percent of the population.

Emissions of CFC (chlorofluorocarbon) gases in the United States declined 67 percent between 1990 and 1996 from 223,000 metric tons annually to 73,000 tons.

Forty-one percent of the municipal paper waste was recovered in 1996 compared to 28 percent in 1990.

The recovery rate also increased for ferrous metals from 20 percent to 38 percent of the waste generated.

New Jersey leads the Nation in the number of hazardous waste sites on the Superfund list with 110 of the country's 1,231 sites as of the end of 1997.

geology, topography, geographic information systems, mineralogy, hydrology, and geothermal energy resources as well as natural hazards. In cooperation with state and local agencies, the U.S. Geological Survey prepares and publishes topographic, land use/land cover, geologic, and hydrologic maps and digital data compilations. The U.S. Geological Survey provides United States cartographic data through the Earth Sciences Information Center, water resources data through the National Water Data Exchange (NAWDEX), and a variety of research and Open-File reports which are announced monthly in New Publications of the U.S. Geological Survey. In a joint project with the Census Bureau, the U.S. Geological Survey provided the basic information on geographic features for input into a national geographic and cartographic database prepared by the Census Bureau, called the TIGER™ (Topologically Integrated Geographic Encoding and Referencing) System.

Maps prepared by the Bureau of the Census show the names and boundaries of various types of legal and statistical entities, such as places, county subdivisions, and larger areas and are available as of the specific decennial census. An inventory is available for the 1990 census, both on computer tape and CD-ROM as the 1990 TIGER/GICS (Geographic Identification Code Scheme) and for the 1992 economic censuses in the *Geographic Reference Manual* (EC92-R-1). The Census Bureau maintains a current inventory of governmental units and their legal boundaries through its Boundary and Annexation Survey. The TIGER™ System contains information on the legal and statistical entities used by the Census Bureau, as well as on both manmade and natural features, such as streets, roads, railroads, rivers, and lakes; information is available to the public in the form of machine-readable TIGER™ extract files.

An inventory of the Nation's land resources by type of use/cover was conducted by the Soil Conservation Service in 1982, 1987, and 1992. The results, published in the *1992 National Inventory of Land Resources*, cover all nonfederal land in Puerto Rico, the Virgin Islands, and the United States except Alaska.

Environment—The principal federal agency responsible for pollution abatement and control activities is the Environmental Protection Agency (EPA). It is responsible for establishing and monitoring national air quality standards, water quality activities, solid and hazardous waste disposal, and control of toxic substances.

National Ambient Air Quality Standards (NAAQS) for suspended particulate matter, sulfur dioxide, photochemical oxidants, carbon monoxide, and nitrogen dioxide were originally set by the EPA in April 1971. Every 5 years, each of the NAAQS is reviewed and revised if new health or welfare data indicates that a change is necessary. The standard for

photochemical oxidants, now called ozone, was revised in February 1979. Also, a new NAAQS for lead was promulgated in October 1978 and for suspended particulate matter in 1987. Table 398 gives some of the health-related standards for the six air pollutants having NAAQS. Responsibility for demonstrating compliance with or progress toward achieving these standards lies with the state agencies. In 1996, there were 1,734 nonfederal sampling stations for particulates, 690 for sulfur dioxide, 554 for carbon monoxide, 1,037 for ozone, 415 for nitrogen dioxide, and 428 for lead. Data from these state networks are periodically submitted to EPA's National Aerometric Information Retrieval System (AIRS) for summarization in annual reports on the nationwide status and trends in air quality; for details, see *National Air Quality and Emissions Trends Report, 1996*.

Climate—NOAA, through the National Weather Service and the National Environmental Satellite, Data and Information Service, is responsible for data on climate. NOAA maintains about 11,600 weather stations, of which over 3,000 produce autographic precipitation records, about 600 take hourly readings of a series of weather elements, and the remainder record data once a day. These data are reported monthly in the *Climatological Data* (published by state), and monthly and annually in the *Local Climatological Data* (published by location for major cities).

The normal climatological temperatures, precipitation, and degree days listed in this publication are derived for comparative purposes and are averages for the 30-year period, 1961-90. For stations that did not have continuous records for the entire 30 years from the same instrument site, the normals have been adjusted to provide representative values for the current location. The information in all other tables is based on data from the beginning of the record at that location through 1995, except as noted.

No. 387. Land and Water Area of States and Other Entities: 1990

[One square mile=2.59 square kilometers. Excludes territorial water, which was included in the 1993 edition of the *Statistical Abstract*]

STATE AND OTHER AREA	TOTAL AREA		LAND AREA		WATER AREA				
	Sq. mi.	Sq. km.	Sq. mi.	Sq. km.	Total		Inland sq. mi.	Coastal sq. mi.	Great Lakes sq. mi.
					Sq. mi.	Sq. km.			
United States	3,717,796	9,629,091	3,536,278	9,158,960	181,518	470,131	78,937	42,528	60,052
Alabama	52,237	135,293	50,750	131,443	1,486	3,850	968	519	-
Alaska	615,230	1,593,444	570,374	1,477,268	44,856	116,177	17,501	27,355	-
Arizona	114,006	295,276	113,642	294,333	364	943	364	-	-
Arkansas	53,182	137,742	52,075	134,875	1,107	2,867	1,107	-	-
California	158,869	411,470	155,973	403,971	2,895	7,499	2,674	222	-
Colorado	104,100	269,618	103,729	268,658	371	960	371	-	-
Connecticut	5,544	14,358	4,845	12,550	698	1,808	161	538	-
Delaware	2,396	6,206	1,955	5,062	442	1,144	71	371	-
District of Columbia	68	177	61	159	7	18	7	-	-
Florida	59,928	155,214	53,937	139,697	5,991	15,517	4,683	1,308	-
Georgia	58,977	152,750	57,919	150,010	1,058	2,740	1,011	47	-
Hawaii	6,459	16,729	6,423	16,636	36	93	36	-	-
Idaho	83,574	216,456	82,751	214,325	823	2,131	823	-	-
Illinois	57,918	150,007	55,593	143,987	2,325	6,021	750	-	1,575
Indiana	36,420	94,328	35,870	92,904	550	1,424	315	-	235
Iowa	56,276	145,754	55,875	144,716	401	1,038	401	-	-
Kansas	82,282	213,110	81,823	211,922	459	1,189	459	-	-
Kentucky	40,411	104,665	39,732	102,907	679	1,759	679	-	-
Louisiana	49,651	128,595	43,566	112,836	6,085	15,759	4,153	1,931	-
Maine	33,741	87,388	30,865	79,939	2,876	7,449	2,263	613	-
Maryland	12,297	31,849	9,775	25,316	2,522	6,533	680	1,842	-
Massachusetts	9,241	23,934	7,838	20,300	1,403	3,634	424	979	-
Michigan	96,705	250,465	56,809	147,136	39,895	103,329	1,704	-	38,192
Minnesota	86,943	225,182	79,617	206,207	7,326	18,975	4,780	-	2,546
Mississippi	48,286	125,060	46,914	121,506	1,372	3,553	781	591	-
Missouri	69,709	180,546	68,898	178,446	811	2,100	811	-	-
Montana	147,046	380,849	145,556	376,991	1,490	3,859	1,490	-	-
Nebraska	77,358	200,358	76,878	199,113	481	1,245	481	-	-
Nevada	110,567	286,367	109,806	284,396	761	1,971	761	-	-
New Hampshire	9,283	24,044	8,969	23,231	314	813	314	-	-
New Jersey	8,215	21,277	7,419	19,215	796	2,062	371	425	-
New Mexico	121,598	314,939	121,364	314,334	234	605	234	-	-
New York	53,989	139,833	47,224	122,310	6,766	17,523	1,888	976	3,901
North Carolina	52,672	136,421	48,718	126,180	3,954	10,241	3,954	-	-
North Dakota	70,704	183,123	68,994	178,695	1,710	4,428	1,710	-	-
Ohio	44,828	116,103	40,953	106,067	3,875	10,036	376	-	3,499
Oklahoma	69,903	181,048	68,679	177,877	1,224	3,171	1,224	-	-
Oregon	97,132	251,571	96,002	248,646	1,129	2,925	1,050	80	-
Pennsylvania	46,058	119,291	44,820	116,083	1,239	3,208	490	-	749
Rhode Island	1,231	3,189	1,045	2,707	186	482	168	18	-
South Carolina	31,189	80,779	30,111	77,988	1,078	2,791	1,006	72	-
South Dakota	77,121	199,744	75,896	196,571	1,225	3,174	1,225	-	-
Tennessee	42,146	109,158	41,219	106,758	926	2,400	926	-	-
Texas	267,277	692,248	261,914	678,358	5,363	13,890	4,959	404	-
Utah	84,904	219,902	82,168	212,815	2,736	7,086	2,736	-	-
Vermont	9,615	24,903	9,249	23,956	366	947	366	-	-
Virginia	42,326	109,625	39,598	102,558	2,729	7,067	1,000	1,728	-
Washington	70,637	182,949	66,581	172,445	4,055	10,503	1,545	2,511	-
West Virginia	24,231	62,759	24,087	62,384	145	375	145	-	-
Wisconsin	65,499	169,643	54,314	140,672	11,186	28,971	1,831	-	9,355
Wyoming	97,818	253,349	97,105	251,501	714	1,848	714	-	-
Other areas:									
Puerto Rico	3,508	9,085	3,427	8,875	81	210	65	16	-
American Samoa	90	233	77	200	13	33	7	6	-
Guam	217	561	210	543	7	18	7	-	-
No. Mariana Islands	189	490	179	464	10	26	2	8	-
Palau	241	624	177	458	64	165	40	24	-
Virgin Islands of the U.S.	171	443	134	346	37	96	17	20	-

- Represents or rounds to zero.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing*, series CPH-2; and unpublished data from the TIGER/Geographic Information Control System (TIGER/GICS) computer file. Corrections have been made subsequent to the 1990 census reports.

No. 388. Area and Acquisition of the Federal Public Domain: 1781 to 1994

[In millions of acres. Areas of acquisitions are as computed in 1912, and do not agree with figures in square miles shown in Table 387 which include later adjustments and reflect subsequent remeasurement. Excludes outlying areas of the United States amounting to 645,949 acres in 1978]

YEAR	Land area, total ¹	YEAR	LAND AREA ¹			YEAR AND ACQUISITION	ACREAGE					
			Total	Public domain	Acquired		Total	Land	Inland water			
1802 . . .	200.0	1980 . . .	719.5	648.0	71.5	Aggregate 1,840.7	1,807.5	33.2				
1850 . . .	1,200.0	1981 . . .	730.8	668.7	62.2							
1880 . . .	900.0	1982 . . .	729.8	670.0	59.8				1781-1802 (State Cessions)	236.8	233.4	3.4
1912 . . .	600.0	1983 . . .	732.0	672.4	59.6				1803, Louisiana Purchase ²	529.9	523.4	6.5
1946 . . .	413.0	1984 . . .	726.6	658.9	67.7				1819, Cession from Spain ³	46.1	43.3	2.8
1950 . . .	412.0	1985 . . .	726.7	656.2	70.5				Red River Basin ³	29.6	29.1	0.5
1955 . . .	407.9	1986 . . .	727.1	662.7	64.4							
1959 . . .	768.6	1987 . . .	724.3	661.0	63.3				1846, Oregon Compromise	183.4	180.6	2.7
1960 . . .	771.5	1988 . . .	688.2	623.2	65.0				1848, Mexican Cession ²	338.7	334.5	4.2
1965 . . .	765.8	1989 . . .	662.2	597.9	64.3				1850, Purchase from Texas	78.9	78.8	0.1
1970 . . .	761.3	1990 . . .	649.8	587.4	62.4				1853, Gadsden Purchase	19.0	19.0	(Z)
1975 . . .	760.4	1991 . . .	649.3	587.6	61.8				1867, Alaska Purchase	378.3	365.3	12.9
1976 . . .	762.2	1992 . . .	651.1	590.9	60.2							
1977 . . .	741.5	1993 . . .	650.3	590.5	59.9							
1978 . . .	775.2	1994 . . .	657.3	573.2	84.1							
1979 . . .	744.1											

¹ Z Less than 50,000. ¹ Owned by federal government. Comprises original public domain plus acquired lands. Estimated from imperfect data available for indicated years. Prior to 1959, excludes Alaska, and 1960, Hawaii. Source: Beginning 1955, U.S. General Services Administration, *Inventory Report on Real Property Owned by the United States Throughout the World*, annual. ² Data for Louisiana Purchase exclude areas eliminated by Treaty of 1819 with Spain. Such areas are included in figures for Mexican Cession. ³ Represents drainage basin of Red River of the North, south of 49th parallel. Authorities differ as to method and date of its acquisition. Some hold it as part of the Louisiana Purchase; others, as acquired from Great Britain.

Source: Except as noted, U.S. Dept. of the Interior. Estimated area, Bureau of Land Management; all other data, Office of the Secretary, *Areas of Acquisitions to the Territory of the U.S.*, 1922.

No. 389. Total and Federally Owned Land, by State: 1996

[As of end of fiscal year; see text, Section 9. Total land area figures are not comparable with those in Table 387]

STATE	Total (1,000 acres)	Not owned by federal government (1,000 acres)	OWNED BY FEDERAL GOVERNMENT ¹		STATE	Total (1,000 acres)	Not owned by federal government (1,000 acres)	OWNED BY FEDERAL GOVERNMENT ¹	
			Acres (1,000)	Percent				Acres (1,000)	Percent
United States . . .	2,271,343	1,708,214	563,129	24.8	Missouri	44,248	42,590	1,658	3.7
Alabama	32,678	31,598	1,080	3.3	Montana	93,271	67,786	25,485	27.3
Alaska	365,482	193,694	171,788	47.0	Nebraska	49,032	48,517	515	1.1
Arizona	72,688	41,351	31,337	43.1	Nevada	70,264	14,183	56,082	79.8
Arkansas	33,599	30,860	2,740	8.2	New Hampshire	5,769	5,035	734	12.7
California	100,207	55,449	44,757	44.7	New Jersey	4,813	4,712	102	2.1
Colorado	66,486	42,356	24,129	36.3	New Mexico	77,766	51,550	26,217	33.7
Connecticut	3,135	3,128	7	0.2	New York	30,681	30,484	197	0.6
Delaware	1,266	1,264	2	0.2	North Carolina	31,403	29,374	2,028	6.5
District of Columbia	39	30	9	23.4	North Dakota	44,452	43,040	1,413	3.2
Florida	34,721	32,077	2,645	7.6	Ohio	26,222	25,942	280	1.1
Georgia	37,295	35,835	1,460	3.9	Oklahoma	44,088	43,410	678	1.5
Hawaii	4,106	3,755	350	8.5	Oregon	61,599	29,789	31,809	51.6
Idaho	52,933	19,941	32,992	62.3	Pennsylvania	28,804	28,182	623	2.2
Illinois	35,795	35,390	405	1.1	Rhode Island	677	674	3	0.5
Indiana	23,158	22,764	394	1.7	South Carolina	19,374	18,440	935	4.8
Iowa	35,860	35,831	30	0.1	South Dakota	48,882	46,304	2,577	5.3
Kansas	52,511	52,161	350	0.7	Tennessee	26,728	25,152	1,576	5.9
Kentucky	25,512	24,430	1,083	4.2	Texas	168,218	166,210	2,008	1.2
Louisiana	28,868	28,123	745	2.6	Utah	52,697	18,799	33,898	64.3
Maine	19,848	19,654	193	1.0	Vermont	5,937	5,560	377	6.3
Maryland	6,319	6,162	157	2.5	Virginia	25,496	23,217	2,279	8.9
Massachusetts	5,035	4,983	52	1.0	Washington	42,694	30,755	11,939	28.0
Michigan	36,492	32,513	3,980	10.9	West Virginia	15,411	14,333	1,077	7.0
Minnesota	51,206	47,137	4,069	7.9	Wisconsin	35,011	33,278	1,733	5.0
Mississippi	30,223	28,946	1,276	4.2	Wyoming	62,343	31,465	30,878	49.5

¹ Excludes trust properties.

Source: U.S. General Services Administration, *Inventory Report on Real Property Owned by the United States Throughout the World*, annual.

No. 390. Land Cover/Use, by State: 1992

[In thousands of acres. Excludes Alaska and District of Columbia]

STATE	Total surface area ¹	Federal land	NONFEDERAL LAND							
			Total	Devel-oped ²	Rural					Minor cover/use
					Total	Crop-land	Pasture land	Range-land	Forest land	
Total	1,940,011	407,989	1,483,126	92,352	1,390,774	382,317	125,927	398,949	394,958	88,624
United States	1,937,678	407,899	1,480,916	91,946	1,388,970	381,950	125,215	398,803	394,437	88,565
Alabama	33,091	921	31,192	2,046	29,147	3,147	3,760	67	20,968	1,205
Arizona	72,960	30,280	42,408	1,404	41,004	1,198	76	32,227	4,718	2,785
Arkansas	34,040	3,207	29,803	1,322	28,480	7,730	5,727	159	14,267	598
California	101,572	46,792	52,892	5,001	47,892	10,052	1,161	17,140	14,794	4,746
Colorado	66,618	23,923	42,240	1,694	40,547	8,940	1,256	23,537	3,755	3,059
Connecticut	3,212	15	3,054	816	2,238	229	110	-	1,760	140
Delaware	1,309	33	1,213	205	1,008	499	26	-	353	130
Florida	37,545	3,791	30,406	4,645	25,761	2,997	4,373	3,467	12,378	2,545
Georgia	37,702	2,087	34,599	3,077	31,523	5,173	3,075	-	21,714	1,560
Hawaii	4,093	432	3,621	170	3,451	274	88	925	1,483	680
Idaho	53,481	33,298	19,521	587	18,934	5,600	1,243	6,668	4,024	1,399
Illinois	36,061	521	34,766	3,094	31,672	24,100	2,764	-	3,419	1,390
Indiana	23,159	487	22,287	2,095	20,193	13,513	1,866	-	3,626	1,188
Iowa	36,016	184	35,363	1,779	33,584	24,988	3,712	-	1,931	2,953
Kansas	52,658	606	51,488	1,997	49,491	26,565	2,306	15,723	1,331	3,565
Kentucky	25,862	1,201	23,985	1,653	22,332	5,092	5,859	-	10,312	1,069
Louisiana	30,561	1,264	26,373	1,764	24,609	5,972	2,269	227	12,961	3,181
Maine	21,290	164	19,517	697	18,820	448	111	-	17,557	705
Maryland	6,695	167	6,034	1,095	4,939	1,673	545	-	2,364	356
Massachusetts	5,302	89	4,839	1,309	3,530	272	170	-	2,778	310
Michigan	37,457	3,166	33,040	3,686	29,354	8,985	2,353	-	15,608	2,408
Minnesota	54,017	3,383	47,092	2,418	44,674	21,356	3,282	-	13,815	6,222
Mississippi	30,521	1,726	27,992	1,337	26,655	5,726	4,047	-	15,765	1,117
Missouri	44,606	2,017	41,710	2,336	39,374	13,347	11,911	126	11,656	2,332
Montana	94,109	27,122	65,656	1,096	64,561	15,035	3,370	36,835	5,156	4,165
Nebraska	49,507	739	48,137	1,252	46,885	19,239	2,066	22,669	777	2,135
Nevada	70,759	60,290	10,025	394	9,631	762	297	7,854	353	364
New Hampshire	5,938	747	4,952	563	4,389	142	98	-	3,932	217
New Jersey	4,984	159	4,549	1,588	2,961	650	159	-	1,766	386
New Mexico	77,819	27,394	50,196	866	49,330	1,892	212	39,792	4,600	2,835
New York	31,429	231	29,788	3,005	26,783	5,616	3,001	-	17,178	987
North Carolina	33,708	2,448	28,476	3,542	24,933	5,960	2,019	-	15,979	975
North Dakota	45,250	1,951	42,187	1,344	40,843	24,743	1,168	10,325	426	4,181
Ohio	26,451	375	25,654	3,558	22,096	11,929	2,269	-	6,624	1,275
Oklahoma	44,772	1,202	42,395	1,875	40,520	10,081	7,720	14,061	6,988	1,672
Oregon	62,127	32,291	29,155	1,125	28,030	3,776	1,900	9,375	11,839	1,142
Pennsylvania	28,997	682	27,813	3,432	24,381	5,596	2,326	-	15,316	1,143
Rhode Island	776	4	661	190	472	25	24	-	393	30
South Carolina	19,912	1,156	17,961	1,856	16,105	2,983	1,190	-	10,922	1,010
South Dakota	49,354	2,907	45,459	1,135	44,324	16,436	2,158	21,933	540	3,257
Tennessee	26,972	1,379	24,740	2,161	22,579	4,857	5,165	-	11,580	977
Texas	170,756	3,203	163,687	8,231	155,456	28,261	16,710	94,155	9,960	6,369
Utah	54,336	35,582	16,866	561	16,305	1,815	665	10,050	1,626	2,148
Vermont	6,153	368	5,521	324	5,197	635	349	-	4,138	707
Virginia	26,091	2,389	22,774	2,183	20,591	2,901	3,444	-	13,539	75
Washington	43,608	12,479	29,931	1,851	28,081	6,745	1,352	5,476	12,547	1,960
West Virginia	15,508	1,201	14,138	689	13,449	915	1,609	-	10,534	391
Wisconsin	35,938	1,829	32,747	2,357	30,390	10,813	2,954	-	13,410	3,212
Wyoming	62,598	30,020	32,012	541	31,471	2,272	901	26,015	975	1,309
Caribbean	2,334	90	2,211	407	1,804	367	712	145	521	59

- Represents zero. ¹ Includes water area not shown separately. ² Includes urban and built-up areas in units of 10 acres or greater, and rural transportation.

Source: U.S. Dept. of Agriculture, Soil Conservation Service, and Iowa State University, Statistical Laboratory; *Summary Report, 1992 National Resources Inventory.*

No. 391. Extreme and Mean Elevations States and Other Areas

[One foot=.305 meter]

STATE OR OTHER AREA	HIGHEST POINT			LOWEST POINT			APPROXIMATE MEAN ELEVATION	
	Name	Elevation		Name	Elevation		Feet	Meters
		Feet	Meters		Feet	Meters		
U.S.	Mt. McKinley (AK)	20,320	6,198	Death Valley (CA)	-282	-86	2,500	763
AL	Cheaha Mountain	2,405	733	Gulf of Mexico	(¹)	(¹)	500	153
AK	Mount McKinley	20,320	6,198	Pacific Ocean	(¹)	(¹)	1,900	580
AZ	Humphreys Peak	12,633	3,853	Colorado River	70	21	4,100	1,251
AR	Magazine Mountain	2,753	840	Ouachita River	55	17	650	198
CA	Mount Whitney	14,494	4,419	Death Valley	-282	-86	2,900	885
CO	Mt. Elbert	14,433	4,402	Arkansas River	3,350	1,022	6,800	2,074
CT	Mt. Frissell on South slope	2,380	726	Long Island Sound	(¹)	(¹)	500	153
DE	Ebright Road, ² New Castle County	448	137	Atlantic Ocean	(¹)	(¹)	60	18
DC	Tenleytown at Reno Reservoir	410	125	Potomac River	1	(Z)	150	46
FL	Sec. 30, T6N, R20W, Walton County	345	105	Atlantic Ocean	(¹)	(¹)	100	31
GA	Brasstown Bald	4,784	1,459	Atlantic Ocean	(¹)	(¹)	600	183
HI	Puu Wekiu	13,796	4,208	Pacific Ocean	(¹)	(¹)	3,030	924
ID	Borah Peak	12,662	3,862	Snake River	710	217	5,000	1,525
IL	Charles Mound	1,235	377	Mississippi River	279	85	600	183
IN	Franklin Twp., Wayne Co.	1,257	383	Ohio River	320	98	700	214
IA	Sec. 29, T100N, R41W, Osceola County	1,670	509	Mississippi River	480	146	1,100	336
KS	Mount Sunflower	4,039	1,232	Verdigris River	679	207	2,000	610
KY	Black Mountain	4,139	2,162	Mississippi River	257	78	750	229
LA	Driskill Mountain	535	163	New Orleans	-8	-2	100	31
ME	Mount Katahdin	5,267	1,606	Atlantic Ocean	(¹)	(¹)	600	183
MD	Backbone Mountain	3,360	1,025	Atlantic Ocean	(¹)	(¹)	350	107
MA	Mount Greylock	3,487	1,064	Atlantic Ocean	(¹)	(¹)	500	153
MI	Mount Arvon	1,979	604	Lake Erie	571	174	900	275
MN	Eagle Mountain, Cook Co.	2,301	702	Lake Superior	600	183	1,200	366
MS	Woodall Mountain	806	246	Gulf of Mexico	(¹)	(¹)	300	92
MO	Taum Sauk Mountain	1,772	540	St. Francis River	230	70	800	244
MT	Granite Peak	12,799	3,904	Kootenai River	1,800	549	3,400	1,037
NE	Johnson Twp., Kimball Co	5,424	1,654	Missouri River	840	256	2,600	793
NV	Boundary Peak	13,140	4,007	Colorado River	479	146	5,500	1,678
NH	Mount Washington	6,288	1,918	Atlantic Ocean	(¹)	(¹)	1,000	305
NJ	High Point	1,803	550	Atlantic Ocean	(¹)	(¹)	250	76
NM	Wheeler Peak	13,161	4,014	Red Bluff Reservoir	2,842	867	5,700	1,739
NY	Mount Marcy	5,344	1,630	Atlantic Ocean	(¹)	(¹)	1,000	305
NC	Mount Mitchell	6,684	2,039	Atlantic Ocean	(¹)	(¹)	700	214
ND	White Butte, Slope Co.	3,506	1,069	Red River	750	229	1,900	580
OH	Campbell Hill	1,549	472	Ohio River	455	139	850	259
OK	Black Mesa	4,973	1,517	Little River	289	88	1,300	397
OR	Mount Hood	11,239	3,428	Pacific Ocean	(¹)	(¹)	3,300	1,007
PA	Mount Davis	3,213	980	Delaware River	(¹)	(¹)	1,100	336
RI	Jerimoth Hill	812	248	Atlantic Ocean	(¹)	(¹)	200	61
SC	Sassafras Mountain	3,560	1,086	Atlantic Ocean	(¹)	(¹)	350	107
SD	Harney Peak	7,242	2,209	Big Stone Lake	966	295	2,200	671
TN	Clingmans Dome	6,643	2,026	Mississippi River	178	54	900	275
TX	Guadalupe Peak	8,749	2,668	Gulf of Mexico	(¹)	(¹)	1,700	519
UT	Kings Peak	13,528	4,126	Beaverdam Wash	2,000	610	6,100	1,861
VT	Mount Mansfield	4,393	1,340	Lake Champlain	95	29	1,000	305
VA	Mount Rogers	5,729	1,747	Atlantic Ocean	(¹)	(¹)	950	290
WA	Mount Rainier	14,410	4,395	Pacific Ocean	(¹)	(¹)	1,700	519
WV	Spruce Knob	4,861	1,483	Potomac River	240	73	1,500	458
WI	Timms Hill	1,951	595	Lake Michigan	579	177	1,050	320
WY	Gannett Peak	13,804	4,210	Belle Fourche River	3,099	945	6,700	2,044
Other areas:								
Puerto Rico	Cerro de Punta	4,390	1,339	Atlantic Ocean	(¹)	(¹)	1,800	549
American Samoa	Lata Mountain	3,160	964	Pacific Ocean	(¹)	(¹)	1,300	397
Guam	Mount Lamlam	1,332	406	Pacific Ocean	(¹)	(¹)	330	101
Virgin Is.	Crown Mountain	1,556	475	Atlantic Ocean	(¹)	(¹)	750	229

Z Less than 0.5 meter. ¹ Sea level. ² At DE-PA state line. ³ "Sec." denotes section; "T," township; "R," range; "N," north; and "W," west.

Source: U.S. Geological Survey, for highest and lowest points, *Elevations and Distances in the United States, 1990*, for mean elevations, 1983 edition.

No. 392. Water Areas for Selected Major Bodies of Water: 1990

[Includes only that portion of body of water under the jurisdiction of the United States, excluding Hawaii. One square mile=2.59 square kilometers]

BODY OF WATER AND STATE	AREA		BODY OF WATER AND STATE	AREA	
	Sq. mi.	Sq. km.		Sq. mi.	Sq. km.
Atlantic Coast water bodies:					
Chesapeake Bay (MD-VA)	2,747	7,115	Leech Lake (MN)	162	419
Pamlico Sound (NC)	1,622	4,200	Lake St. Clair (MI) ¹	161	416
Long Island Sound (CT-NY)	914	2,368	Eufaula Lake (OK)	157	407
Delaware Bay (DE-NJ)	614	1,591	Sam Rayburn Reservoir (TX)	150	389
Cape Cod Bay (MA)	598	1,548	Goose Lake (CA-OR)	147	381
Albemarle Sound (NC)	492	1,274	Utah Lake (UT)	139	361
Biscayne Bay (FL)	218	565	Lake Marion (SC)	139	360
Buzzards Bay (MA)	215	558	Lake Francis Case (SD)	134	346
Tangier Sound (MD-VA)	172	445	Lake Pend Oreille (ID)	133	343
Currituck Sound (NC)	116	301	Lake Texoma (OK-TX)	132	342
Pocomoke Sound (MD-VA)	111	286	Yellowstone Lake (WY)	131	339
Chincoteague Bay (MD-VA)	105	272	Livingston Reservoir (TX)	127	330
Great South Bay (NY)	94	243	Franklin D. Roosevelt Lake (WA)	124	322
Core Sound (NC)	88	229	Moosehead Lake (ME)	116	301
Gulf Coast water bodies:					
Mississippi Sound (AL-LA-MS)	813	2,105	Clark Hill Lake (GA-SC)	105	272
Laguna Madre (TX)	733	1,897	Lake Maurepas (LA)	91	235
Lake Pontchartrain (LA)	631	1,635	Lake Moultrie (SC)	89	230
Florida Bay (FL)	616	1,596	Lake Winnibigoshish (MN)	87	225
Breton Sound (LA)	511	1,323	Hartwell Lake (GA-SC)	86	224
Mobile Bay (AL)	310	802	Upper Klamath Lake (OR)	85	221
Lake Borgne (LA-MS)	271	702	Harry S. Truman Reservoir (MO)	84	217
Matagorda Bay (TX)	253	656	Oneida Lake (NY)	80	207
Atchafalaya Bay (LA)	245	635	Malheur Lake (OR)	75	195
Galveston Bay (TX)	236	611	Alaska water bodies:		
Tampa Bay (FL)	212	549	Chatham Strait	1,559	4,039
Vermilion Bay (LA)	189	489	Prince William Sound	1,382	3,579
Corpus Christi Bay (TX)	151	392	Clarence Strait	1,199	3,107
West Cote Blanche Bay (LA)	146	378	Iliamna Lake	1,022	2,646
Trinity Bay (TX)	129	335	Frederick Sound	792	2,051
Choctawhatchee Bay (FL)	122	315	Sumner Strait	791	2,048
San Antonio Bay (TX)	118	306	Stephens Passage	702	1,819
Timbalier Bay (LA)	112	291	Kvichak Bay	640	1,659
Charlotte Harbor (FL)	112	291	Montague Strait	463	1,198
Aransas Bay (TX)	104	268	Becharof Lake	447	1,158
Apalachicola Bay (FL)	101	262	Icy Strait	436	1,130
Terrebonne Bay (LA)	99	256	Hotham Inlet	433	1,120
East Cote Blanche Bay (LA)	94	243	Selawik Lake	403	1,044
St. George Sound (FL)	93	240	Nushagak Bay	393	1,018
Sabine Lake (LA-TX)	89	229	Baird Inlet	348	902
White Lake (LA)	85	221	Yakutat Bay	345	894
Old Tampa Bay (FL)	83	214	Teshekpak Lake	324	839
Bon Secour Bay (AL)	79	204	Behm Canal	324	839
Pine Island Sound (FL)	75	194	Turnagain Arm	322	834
Pacific Coast water bodies:					
Puget Sound (WA)	808	2,092	Kachemak Bay	310	803
San Francisco Bay (CA)	264	684	Glacier Bay	310	803
Willapa Bay (WA)	125	325	Stefansson Sound	301	780
Hood Canal (WA)	117	303	Revillagigedo Channel	295	764
Interior water bodies:					
Lake Michigan (IL-IN-MI-WI)	22,342	57,866	Kasegaluk Lagoon	293	759
Lake Superior (MI-MN-WI)	20,557	53,243	Cordova Bay	241	623
Lake Huron (MI)	8,800	22,792	Sitka Sound	229	593
Lake Erie (MI-NY-OH-PA)	5,033	13,036	Naknek Lake	225	582
Lake Ontario (NY)	3,446	8,926	Eschscholtz Bay	210	543
Great Salt Lake (UT)	1,836	4,756	Stepovak Bay	206	534
Green Bay (MI-WI)	1,396	3,617	Keku Strait	206	534
Lake Okechobee (FL)	663	1,717	Port Clarence	187	486
Lake Sakakawea (ND)	563	1,459	Orca Bay	184	476
Lake Oahe (ND-SD)	538	1,394	Knik Arm	169	437
Lake of the Woods (MN)	462	1,196	Dall Lake	167	433
Lake Champlain (NY-VT)	414	1,072	Knight Island Passage	167	432
Fort Peck Lake (MT)	379	981	Scammon Bay	163	423
Salton Sea (CA)	364	944	Port Moller	159	412
Toledo Bend Reservoir (LA-TX)	268	694	Ernest Sound	158	410
Lower Red Lake (MN)	257	666	Spafarief Bay	157	405
Lake Powell (AZ-UT)	250	649	Pavlov Bay	153	396
Kentucky Lake (KY-TN)	234	605	Shishmaref Inlet	153	395
Lake Mead (AZ-NV)	233	603	Smith Bay	140	363
Lake Winnebago (WI)	206	535	Seymour Canal	140	361
Mille Lacs Lake (MN)	200	518	Sitkalidak Strait	135	349
Flathead Lake (MT)	191	495	Tievak Strait	135	349
Lake Tahoe (CA-NV)	187	486	Lake Clark	130	336
Upper Red Lake (MN)	186	483	Lynn Canal	130	336
Pyramid Lake (NV)	170	440	Chignik Bay	119	309
			Elson Lagoon	119	309
			Bucareli Bay	119	307
			Hinchinbrook Entrance	118	306

¹ Area measurements for Lake Champlain, Lake Erie, Lake Huron, Lake Ontario, Lake St. Clair, Lake Superior, and Lake of the Woods include only those portions under the jurisdiction of the United States.

Source: U.S. Bureau of the Census, unpublished data from the Census TIGER™ database.

No. 393. Flows of Largest U.S. Rivers—Length, Discharge, and Drainage Area

RIVER	Location of mouth	Source stream (name and location)	Length (miles) ¹	Average discharge at mouth (1,000 cubic ft. per second)	Drainage area (1,000 sq. mi.)
Missouri	Missouri	Red Rock Creek, MT	2,540	76.2	5,529
Mississippi	Louisiana	Mississippi River, MN	2,340	593	4,150
Yukon	Alaska	McNeil River, Canada	1,980	225	328
St. Lawrence	Canada	North River, MN	1,900	348	396
Rio Grande	Mexico-Texas	Rio Grande, CO	1,900	-	336
Arkansas	Arkansas	East Fork Arkansas River, CO	1,460	41	161
Colorado	Mexico	Colorado River, CO	1,450	-	246
Atchafalaya ⁶	Louisiana	Tierra Blanca Creek, NM	1,420	58	95.1
Ohio	Illinois-Kentucky	Allegheny River, PA	1,310	281	203
Red	Louisiana	Tierra Blanca Creek, NM	1,290	56	93.2
Brazos	Texas	Blackwater Draw, NM	1,280	-	45.6
Columbia	Oregon-Washington	Columbia River, Canada	1,240	265	258
Snake	Washington	Snake River, WY	1,040	56.9	108
Platte	Nebraska	Grizzly Creek, CO	990	-	84.9
Pecos	Texas	Pecos River, NM	926	-	44.3
Canadian	Oklahoma	Canadian River, CO	906	-	46.9
Tennessee	Kentucky	Courthouse Creek, NC	886	68	40.9
Colorado (of Texas)	Texas	Colorado River, TX	862	-	42.3
North Canadian	Oklahoma	Corrupa Creek, NM	800	-	17.6
Mobile	Alabama	Tickanetley Creek, GA	774	67.2	44.6
Kansas	Kansas	Arikaree River, CO	743	-	59.5
Kuskokwim	Alaska	South Fork Kuskokwim River, AK	724	67	48
Yellowstone	North Dakota	North Fork Yellowstone River, WY	692	-	70
Tanana	Alaska	Nabesna River, AK	659	41	44.5
Gila	Arizona	Middle Fork Gila River, NM	649	-	58.2

- Represents zero. ¹ From source to mouth. ² The length from the source of the Missouri River to the Mississippi River and thence to the Gulf of Mexico is about 3,710 miles. ³ Includes about 167,000 cubic ft. per second diverted from the Mississippi into the Atchafalaya River but excludes the flow of the Red River. ⁴ Excludes the drainage areas of the Red and Atchafalaya Rivers. ⁵ Drainage area includes both the United States and Canada. ⁶ In east-central Louisiana, the Red River flows into the Atchafalaya River, a distributary of the Mississippi River. Data on average discharge, length, and drainage area include the Red River, but exclude all water diverted into the Atchafalaya from the Mississippi River.

Source: U.S. Geological Survey, *Largest Rivers in the United States*, Open File Report 87-242, May 1990.

No. 394. U.S. Water Withdrawals and Consumptive Use Per Day, by End Use: 1940 to 1995

[Includes Puerto Rico. Withdrawal signifies water physically withdrawn from a source. Includes fresh and saline water; excludes water used for hydroelectric power]

YEAR	Total (bil. gal.)	Per capita ¹ (gal.)	Irrigation (bil. gal.)	PUBLIC SUPPLY ²		Rural ⁴ (bil. gal.)	Industrial and misc. ⁵ (bil. gal.)	Steam electric utilities (bil. gal.)
				Total (bil. gal.)	Per capita ³ (gal.)			
WITHDRAWALS								
1940	140	1,027	71	10	75	3.1	29	23
1950	180	1,185	89	14	145	3.6	37	40
1955	240	1,454	110	17	148	3.6	39	72
1960	270	1,500	110	21	151	3.6	38	100
1965	310	1,602	120	24	155	4.0	46	130
1970	370	1,815	130	27	166	4.5	47	170
1975	420	1,972	140	29	168	4.9	45	200
1980	440	1,953	150	34	183	5.6	45	210
1985	399	1,650	137	38	189	7.8	31	187
1990	408	1,620	137	41	195	7.9	30	195
1995	402	1,500	134	43	192	8.9	26	190
CONSUMPTIVE USE								
1960	61	339	52	3.5	25	2.8	3.0	0.2
1965	77	403	66	5.2	34	3.2	3.4	0.4
1970	87	427	73	5.9	36	3.4	4.1	0.8
1975	96	451	80	6.7	38	3.4	4.2	1.9
1980	100	440	83	7.1	38	3.9	5.0	3.2
1985	92	380	74	(⁶)	(⁶)	9.2	6.1	6.2
1990	94	370	76	(⁶)	(⁶)	8.9	6.7	4.0
1995	100	374	81	(⁶)	(⁶)	9.9	4.8	3.7

¹ Based on Bureau of the Census resident population as of July 1. ² Includes commercial water withdrawals. ³ Based on population served. ⁴ Rural farm and nonfarm household and garden use, and water for farm stock and dairies. ⁵ For 1940 to 1960, includes manufacturing and mineral industries, rural commercial industries, air-conditioning, resorts, hotels, motels, military and other state and federal agencies, and miscellaneous; thereafter, includes manufacturing, mining and mineral processing, ordnance, construction, and miscellaneous. ⁶ Public supply consumptive use included in end-use categories.

Source: 1940-1960, U.S. Bureau of Domestic Business Development, based principally on committee prints, *Water Resources Activities in the United States*, for the Senate Committee on National Water Resources, U.S. Senate, thereafter, U.S. Geological Survey, *Estimated Use of Water in the United States in 1995*, circular 1200, and previous quinquennial issues.

No. 395. National Ambient Water Quality in Rivers and Streams—Violation Rate: 1980 to 1995

[In percent. Violation level based on U.S. Environmental Protection Agency water quality criteria. Violation rate represents the proportion of all measurements of a specific water quality pollutant which exceeds the "violation level" for that pollutant. "Violation" does not necessarily imply a legal violation. Data based on U.S. Geological Survey's National Stream Quality Accounting Network (NASQAN) data system; for details, see source. Years refer to water years. A water year begins in Oct. and ends in Sept. µg=micrograms; mg=milligrams. For metric conversion, see page ix]

POLLUTANT	VIOLATION LEVEL	1980	1985	1989	1990	1991	1992	1993	1994	1995
Fecal coliform bacteria	Above 200 cells per 100 ml	31	28	30	26	15	2	31	28	35
Dissolved oxygen	Below 5 mg per liter.	5	3	3	2	2	2	(Z)	2	1
Phosphorus, total, as phosphorus	Above 1.0 mg per liter	4	3	2	3	2	2	2	2	4
Lead, dissolved	Above 50 µg per liter	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(NA)	(NA)	(NA)
Cadmium, dissolved	Above 10 µg per liter	1	(Z)	(Z)	(Z)	(Z)	(Z)	(NA)	(NA)	(NA)

NA Not available. Z Less than 1.

Source: U.S. Geological Survey, national-level data, unpublished; state-level data, *Water-Data Report*, annual series prepared in cooperation with the state governments.

No. 396. Oil Polluting Incidents Reported in and Around U.S. Waters: 1973 to 1993

YEAR	Incidents	Gallons	YEAR	Incidents	Gallons
1973	11,054	15,289,188	1986	5,818	4,427,544
1974	12,083	15,739,792	1987	5,693	3,759,983
1975	10,998	21,528,444	1988	6,733	10,650,138
1976	11,066	18,517,384	1989	8,562	25,531,292
1977	10,979	8,188,398	1990	10,186	13,907,783
1978	12,174	11,035,890	1991	10,405	2,156,063
1979	11,556	10,051,271	1992	9,131	1,572,341
1980	9,886	12,638,848			
1981	9,589	8,919,789	1993	9,672	1,543,578
1982	9,416	10,404,646	Tankships	185	14,138
1983	10,530	8,378,719	Tank barges	338	295,243
1984	10,089	19,007,332	Other vessels	5,220	412,430
1985	7,740	8,465,055	Nonvessels	3,929	821,767

Source: U.S. Coast Guard. Based on unpublished data from the *Marine Safety Information System*.

No. 397. Wastewater Treatment Facilities: 1988 to 1996

[Covers treatment facilities, which are structures designed to treat wastewater, storm water, or combined sewer overflows prior to discharging to the environment. Treatment is accomplished by subjecting the wastewater to a combination of physical, chemical, and/or biological processes that reduce the concentration of contaminants]

LEVEL OF TREATMENT	NUMBER OF FACILITIES			Present design capacity	1996	
	1988	1992	1996		Number of persons served	
					Number	Percent of U.S.
Total	15,591	15,613	16,024	42,225	189,710,899	71.8
Non-discharge ¹	1,854	1,981	2,032	1,421	7,660,876	2.9
Less than secondary	1,789	868	176	3,054	17,177,492	6.5
Secondary	8,536	9,086	9,388	17,734	81,944,349	31.0
Greater than secondary	3,412	3,678	4,428	20,016	82,928,182	31.4

¹ Facilities that do not discharge effluent to surface waters.

Source: U.S. Environmental Protection Agency, Office of Wastewater Management, *1996 Clean Water Needs Survey Report to Congress*.

No. 398. National Ambient Air Pollutant Concentrations: 1990 to 1996

[Data represent annual composite averages of pollutant based on daily 24-hour averages of monitoring stations, except carbon monoxide is based on the second-highest, non-overlapping, 8-hour average; ozone, average of the second-highest daily maximum 1-hour value; and lead, quarterly average of ambient lead levels. Based on data from the Aerometric Information Retrieval System. $\mu\text{g}/\text{m}^3$ =micrograms of pollutant per cubic meter of air; ppm=parts per million]

POLLUTANT	Unit	Monitoring stations, number	Air quality standard ¹	1990	1991	1992	1993	1994	1995	1996
Carbon monoxide	ppm	334	² 9	5.90	5.60	5.20	4.90	5.10	4.5	4.2
Ozone	ppm	573	³ 1.12	0.113	0.114	0.106	0.108	0.108	0.113	0.106
Sulfur dioxide	ppm	473	.03	0.008	0.0078	0.0073	0.0071	0.0068	0.0056	0.0056
Particulates (PM-10) ⁴	$\mu\text{g}/\text{m}^3$	955	50	29.4	29.1	26.8	26.0	26.2	25.1	24.2
Nitrogen dioxide	$\mu\text{g}/\text{m}^3$	212	⁵ 0.53	0.020	0.020	0.019	0.019	0.020	0.019	0.019
Lead	$\mu\text{g}/\text{m}^3$	189	⁵ 1.5	0.09	0.07	0.06	0.05	0.04	0.04	0.04

¹ Refers to the primary National Ambient Air Quality Standard that protects the public health. ² Based on 8-hour standard of 9 ppm. ³ Based on 1-hour standard of .12 ppm. ⁴ The particulates (PM-10) standard replaced the previous standard for total suspended particulates in 1987. ⁵ Based on 3-month standard of 1.5 $\mu\text{g}/\text{m}^3$.

Source: U.S. Environmental Protection Agency, *National Air Quality and Emissions Trends Report*, annual.

No. 399. National Air Pollutant Emissions: 1970 to 1996

[In thousands of tons, except as indicated. PM-10=Particulate matter of less than ten microns. Methodologies to estimate data for 1970 to 1984 period and 1985 to present emissions differ. Beginning with 1985, the estimates are based on a modified National Acid Precipitation Assessment Program inventory]

YEAR	PM-10	PM-10, fugitive dust ¹	Sulfur dioxide	Nitrogen dioxides	Volatile organic compounds	Carbon monoxide	Lead
1970	13,190	(NA)	31,161	21,639	30,817	128,761	220,869
1975	7,803	(NA)	28,011	23,151	25,895	115,968	159,659
1980	7,287	(NA)	25,905	24,875	26,167	116,702	74,153
1984	6,220	(NA)	23,470	23,172	25,572	114,262	42,217
1985	4,695	40,889	23,230	23,488	24,227	115,644	22,890
1986	4,553	46,582	22,544	23,329	23,480	110,437	14,763
1987	4,492	38,041	22,308	22,806	23,193	108,879	7,681
1988	5,424	55,851	22,767	24,526	24,167	117,169	7,053
1989	4,590	48,650	22,907	24,057	22,383	104,447	5,468
1990	4,639	25,308	23,136	23,792	20,985	96,535	4,975
1991	4,299	25,258	22,496	23,772	21,100	98,461	4,168
1992	4,198	25,308	22,240	24,137	20,695	95,123	3,808
1993	4,086	23,937	21,879	24,482	20,895	95,291	3,911
1994	4,353	26,572	21,262	24,892	21,546	99,677	4,043
1995	4,068	22,820	18,552	23,935	20,586	89,721	3,943
1996	4,068	27,233	19,113	23,393	19,086	88,822	3,869

NA Not available. ¹ Sources such as agricultural tilling, construction, mining and quarrying, paved roads, unpaved roads, and wind erosion.

No. 400. Air Pollutant Emissions, by Pollutant and Source: 1996

[In thousands of tons, except as indicated. See headnote, Table 399]

SOURCE	Particulates ¹	Sulfur dioxide	Nitrogen oxides	Volatile organic compounds	Carbon monoxide	Lead
Total	31,301	19,113	23,393	19,086	88,822	3,869
Fuel combustion, stationary sources	1,186	16,785	10,493	1,075	5,962	493
Electric utilities	282	12,604	6,034	45	377	62
Industrial	306	3,399	3,170	208	1,072	17
Other fuel combustion	598	782	1,289	822	4,513	414
Residential	472	173	838	758	3,993	(NA)
Industrial processes	828	1,594	770	1,462	4,584	2,174
Chemical and allied product manufacturing	67	287	159	436	1,223	117
Metals processing	211	530	98	70	2,378	2,000
Petroleum and related industries	40	368	110	517	348	(NA)
Other	510	409	403	439	635	638
Solvent utilization	6	1	3	6,273	6	(NA)
Storage and transport	109	2	6	1,312	25	(NA)
Waste disposal and recycling	290	48	100	433	1,203	57
Highway vehicles	274	307	7,171	5,502	52,944	19
Light-duty gas vehicles and motorcycles	(NA)	144	3,403	3,323	33,144	14
Light-duty trucks	(NA)	(NA)	1,510	1,582	14,746	5
Heavy-duty gas vehicles	(NA)	(NA)	326	286	3,601	-
Diesels	172	80	1,933	312	1,453	(NA)
Off highway ²	591	368	4,610	2,426	17,002	545
Miscellaneous ³	28,018	9	239	601	7,099	(NA)

- Represents zero. NA Not available. ¹ Represents both PM-10 and PM-10 fugitive dust; see Table 399. ² Includes emissions from farm tractors and other farm machinery, construction equipment, industrial machinery, recreational marine vessels, and small general utility engines such as lawn mowers. ³ Includes emissions such as from forest fires and other kinds of burning, various agricultural activities, fugitive dust from paved and unpaved roads, and other construction and mining activities, and natural sources.

Source of Tables 399 and 400: U.S. Environmental Protection Agency, *National Air Pollutant Emission Trends, 1900-1996*.

No. 401. Emissions of Greenhouse Gases, by Type and Source: 1990 to 1996

[Emission estimates were mandated by Congress through Section 1605(a) of the Energy Policy Act of 1992 (Title XVI). Gases that contain carbon can be measured either in terms of the full molecular weight of the gas or just in terms of their carbon content]

TYPE AND SOURCE	Unit	1990	1991	1992	1993	1994	1995	1996, prel.
Carbon dioxide:								
Carbon content, total ¹	Mil. metric tons .	1,373.7	1,360.2	1,379.9	1,411.6	1,433.5	1,444.6	1,495.9
Energy sources	Mil. metric tons .	1,345.8	1,330.6	1,351.5	1,380.9	1,401.3	1,411.4	1,463.0
Methane:								
Gas, total ¹	Mil. metric tons .	31.6	31.6	31.7	30.8	31.4	30.9	30.9
Energy sources	Mil. metric tons .	12.1	12.0	12.0	11.1	11.4	11.2	11.6
Landfills	Mil. metric tons .	11.1	11.0	10.9	10.8	10.7	10.6	10.4
Agricultural sources	Mil. metric tons .	8.3	8.6	8.8	8.8	9.1	9.1	8.8
Nitrous oxide, total								
Agriculture	1,000 metric tons	449	452	452	463	472	454	446
Mobile sources	1,000 metric tons	164	167	168	176	179	159	146
Stationary combustion	1,000 metric tons	150	148	150	147	147	148	148
Industrial sources	1,000 metric tons	38	37	37	38	39	39	41
Nitrogen oxide, total ¹								
Energy related	Mil. metric tons .	20.9	20.6	20.7	21.1	21.5	19.7	(NA)
Stationary source fuel combustion	Mil. metric tons .	19.8	19.5	19.7	20.1	20.3	18.8	(NA)
Transportation	Mil. metric tons .	10.4	10.3	10.4	10.6	10.5	9.1	(NA)
Nonmethane volatile organic compounds (VOCs), total ¹								
Energy related	Mil. metric tons .	21.4	20.8	20.3	20.5	21.1	20.7	(NA)
Transportation	Mil. metric tons .	9.0	8.7	8.4	8.4	8.7	8.2	(NA)
Industrial processes	Mil. metric tons .	8.1	7.8	7.5	7.5	7.9	7.6	(NA)
Solid waste disposal	Mil. metric tons .	9.4	9.3	9.5	9.6	9.8	9.9	(NA)
Carbon monoxide, total								
Energy related	Mil. metric tons .	91.3	88.3	85.3	85.4	89.6	83.5	(NA)
Transportation	Mil. metric tons .	74.9	74.4	72.9	72.9	74.7	70.9	(NA)
Stationary source fuel combustion	Mil. metric tons .	70.3	69.6	67.8	68.5	70.3	67.4	(NA)
Industrial processes	Mil. metric tons .	4.6	4.8	5.0	4.5	4.4	3.5	(NA)
Chlorofluorocarbons (CFCs) gases ²								
Hydrofluorocarbons	1,000 metric tons	223	201	173	149	113	105	73
Hydrochlorofluorocarbons (HCFCs) gases ³	1,000 metric tons	5	5	8	11	18	22	34
Other chemicals:								
Carbon tetrachloride	1,000 metric tons	30	-	26	22	16	5	5
Methyl Chloroform	1,000 metric tons	316	224	215	122	78	46	26
Sulfur hexafluoride	1,000 metric tons	1	1	1	1	1	1	1

- Represents zero. NA Not available. ¹ Includes minor sources not shown separately. ² Covers principally CFC-11, CFC-12, and CFC-113. ³ Covers principally HCFC-22.

Source: U.S. Energy Information Administration, *Emissions of Greenhouse Gases in the United States, annual*.

No. 402. Municipal Solid Waste Generation, Recovery, and Disposal: 1980 to 1996

[In millions of tons, except as indicated. Covers post-consumer residential and commercial solid wastes which comprise the major portion of typical municipal collections. Excludes mining, agricultural and industrial processing, demolition and construction wastes, sewage sludge, and junked autos and obsolete equipment wastes. Based on material-flows estimating procedure and wet weight as generated]

ITEM AND MATERIAL	1980	1985	1990	1991	1992	1993	1994	1995	1996
Waste generated	151.5	164.4	205.2	204.6	208.9	211.8	214.2	211.5	209.7
Per person per day (lb.)	3.7	3.8	4.5	4.4	4.5	4.5	4.5	4.4	4.3
Materials recovered	14.5	16.4	33.6	37.0	40.6	43.8	50.9	55.1	57.3
Per person per day (lb.)	0.35	0.38	0.7	0.8	0.9	0.9	1.1	1.1	1.2
Combustion for energy recovery	2.7	7.6	29.7	30.1	30.5	30.9	31.2	34.5	36.1
Per person per day (lb.)	0.06	0.17	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Combustion without energy recovery	11.0	4.1	2.2	2.2	2.2	1.6	1.3	1.0	(NA)
Per person per day (lb.)	0.27	0.10	0.05	0.05	0.05	0.03	0.03	0.02	(NA)
Landfill, other disposal	123.3	136.4	139.7	135.3	135.7	135.5	130.8	120.8	116.2
Per person per day (lb.)	2.97	3.13	3.1	2.9	2.9	2.9	2.8	2.5	2.4
Percent distribution of generation:									
Paper and paperboard	36.1	37.4	35.4	34.7	35.5	36.6	37.7	38.6	38.1
Glass	9.9	8.0	6.4	6.2	6.3	6.4	6.2	6.1	5.9
Metals	9.6	8.6	8.1	8.1	7.7	7.5	7.6	7.5	7.7
Plastics	5.2	7.1	8.3	8.7	8.8	9.0	9.0	8.9	9.4
Rubber and leather	2.8	2.3	2.8	2.9	2.8	2.7	2.9	2.9	3.0
Textiles	1.7	1.7	2.8	3.0	3.2	3.2	3.4	3.5	3.7
Wood	4.4	5.0	6.0	6.2	5.9	5.8	5.3	4.9	5.2
Food wastes	8.7	8.0	10.1	10.2	10.1	10.0	10.0	10.3	10.4
Yard wastes	18.2	18.2	17.1	17.1	16.8	15.7	14.7	14.1	13.4
Other wastes	3.4	3.6	3.0	3.1	2.9	3.0	3.2	3.2	3.2

NA Not available.

Source: Franklin Associates, Ltd., Prairie Village, KS, *Characterization of Municipal Solid Waste in the United States: 1996*. Prepared for the U.S. Environmental Protection Agency.

No. 403. Generation and Recovery of Selected Materials in Municipal Solid Waste: 1980 to 1996

[In millions of tons, except as indicated. Covers post-consumer residential and commercial solid wastes which comprise the major portion of typical municipal collections. Excludes mining, agricultural and industrial processing, demolition and construction wastes, sewage sludge, and junked autos and obsolete equipment wastes. Based on material-flows estimating procedure and wet weight as generated]

ITEM AND MATERIAL	1980	1985	1990	1991	1992	1993	1994	1995	1996
Waste generated, total	151.5	164.4	205.2	204.6	208.9	211.8	214.2	211.5	209.7
Paper and paperboard	54.7	61.5	72.7	71.0	74.3	77.4	80.8	81.7	79.9
Ferrous metals	11.6	10.9	12.6	12.7	12.1	11.9	11.8	11.6	11.8
Aluminum	1.8	2.3	2.8	2.8	2.9	2.9	3.0	3.0	3.0
Other nonferrous metals	1.1	1.0	1.1	1.1	1.1	1.1	1.4	1.3	1.3
Glass	15.0	13.2	13.1	12.6	13.1	13.6	13.4	12.8	12.4
Plastics	7.9	11.6	17.1	17.7	18.4	19.0	19.3	18.9	19.8
Yard wastes	27.5	30.0	35.0	35.0	35.0	33.3	31.5	29.8	28.0
Other wastes	31.9	33.9	50.7	51.7	52.1	52.5	53.0	52.5	53.5
Materials recovered, total	14.5	16.4	33.6	37.0	40.6	43.8	50.9	55.1	57.3
Paper and paperboard	11.9	13.1	20.2	22.5	24.5	25.5	29.5	32.7	32.6
Ferrous metals	0.4	0.4	2.6	3.1	3.4	3.9	4.1	4.2	4.5
Aluminum	0.3	0.6	1.0	1.0	1.1	1.0	1.2	1.0	1.0
Other nonferrous metals	0.5	0.5	0.7	0.7	0.7	0.7	1.0	0.8	0.8
Glass	0.8	1.0	2.6	2.6	2.9	3.0	3.1	3.1	3.2
Plastics	-	0.1	0.4	0.5	0.6	0.7	0.9	1.0	1.1
Yard wastes	-	-	4.2	4.8	5.4	6.9	8.0	9.0	10.8
Other wastes	0.6	0.7	1.8	1.9	2.0	2.1	3.1	3.2	3.3
Percent of generation recovered, total	9.6	10.0	16.4	18.1	19.4	20.7	23.8	26.1	27.3
Paper and paperboard	21.8	21.3	27.8	31.7	33.0	32.9	36.5	40.0	40.8
Ferrous metals	3.4	3.7	20.4	24.1	27.7	32.8	35.0	36.4	38.0
Aluminum	16.7	26.1	35.9	35.5	38.7	35.7	37.8	34.6	34.2
Other nonferrous metals	45.5	50.0	66.4	65.5	63.4	63.1	73.3	64.3	66.7
Glass	5.3	7.6	20.0	20.3	22.0	22.1	23.3	24.5	25.7
Plastics	-	0.9	2.2	2.5	3.3	3.5	4.9	5.2	5.4
Yard wastes	-	-	12.0	13.7	15.4	20.8	25.4	30.3	38.6
Other wastes	1.9	2.1	3.6	3.7	3.9	4.0	5.9	6.1	6.2

- Represents zero.

Source: Franklin Associates, Ltd., Prairie Village, KS, *Characterization of Municipal Solid Waste in the United States: 1996*. Prepared for the U.S. Environmental Protection Agency.

No. 404. Toxic Chemical Releases and Transfers, by Media: 1988 to 1995

[In thousands of pounds. Based on reports filed as required by section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA, or Title III of the Superfund Amendments and Reauthorization Act of 1986), Public Law 99-499. Owners and operators of facilities that are classified within Standard Classification Code groups 20 through 39, have 10 or more full-time employees, and that manufacture, process, or otherwise uses any listed toxic chemical in quantities greater than the established threshold in the course of a calendar year are covered and required to report]

MEDIA	CORE CHEMICALS ¹						Expanded chemical list ² , 1995
	1988	1993	1994	1995			
				Total	Change, 1988-95	Percent change, 1988-95	
Total facilities reporting	20,412	21,260	20,697	19,968	-444	-2.2	19,968
Total releases and transfers	4,015,275	4,899,836	4,963,568	4,884,330	869,056	21.6	5,743,577
Total releases	2,962,349	1,893,560	1,700,851	1,610,448	-1,351,901	-45.6	2,208,749
Total air emissions	2,176,712	1,317,366	1,263,917	1,172,651	-1,004,061	-46.1	1,262,322
Fugitive air	679,934	375,914	349,635	302,210	-377,724	-55.6	85,095
Point source air	1,496,778	941,452	914,283	870,441	-626,337	-41.8	1,177,228
Surface water	164,467	194,864	39,975	35,794	-128,672	-78.2	136,316
Underground injection	161,939	113,290	114,170	136,752	-25,188	-15.6	234,980
Releases to land	459,232	268,040	282,798	265,252	-193,980	-42.2	275,132
Total transfers	1,052,925	3,006,276	3,262,707	3,273,882	(NA)	(NA)	3,534,828
Transfers to recycling	(NA)	1,937,016	2,168,767	2,141,325	(NA)	(NA)	2,213,731
Transfers to energy recovery	(NA)	444,763	455,461	485,656	(NA)	(NA)	512,030
Transfers to treatment	369,160	208,232	217,217	235,231	-133,929	-36.3	287,577
Transfers to POTWs ³	254,723	163,233	158,465	154,662	-100,061	-39.3	239,837
Transfers to disposal	386,183	250,671	259,377	254,785	-131,398	-34.0	279,222
Other off-site transfers	42,859	2,360	3,421	2,222	-40,637	-94.8	2,431

NA Not available. ¹ Excludes chemicals removed from the list, those added in 1990, 1991, 1994, and 1995, and aluminum oxide, ammonia, hydrochloric acid, and sulfuric acid. Chemicals covered for all reporting years. ² The Environmental Protection Agency added 286 chemicals and chemical categories to the EPCRA section list of 313 list of toxic chemicals. ³ Publicly Owned Treatment Works is a waste water treatment facility that is owned by a state or municipality.

Source: U.S. Environmental Protection Agency, *1995 Toxics Release Inventory*.

No. 405. Toxic Chemical Releases, by Industry: 1988 to 1995

[In thousands of pounds. Based on reports filed as required by section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA, or Title III of the Superfund Amendments and Reauthorization Act of 1986), Public Law 99-499. Owners and operators of facilities that are classified within Standard Classification Code groups 20 through 39, have 10 or more full-time employees, and that manufacture, process, or otherwise uses any listed toxic chemical in quantities greater than the established threshold in the course of a calendar year are covered and required to report]

INDUSTRY	1987 SIC ¹ code	CORE CHEMICALS ²						1995, expanded chemical list ³
		1988	1993	1994	1995			
					Total	Change, 1988-95	Percent change, 1988-95	
Total	(X)	2,962,349	1,893,560	1,700,861	1,610,448	-1,351,901	-45.6	2,208,749
Food and kindred products	20	7,288	7,528	6,160	5,281	-2,007	-27.5	86,013
Tobacco products	21	342	137	135	95	-247	-72.2	1,748
Textile mill products	22	34,154	17,450	15,773	14,990	-19,163	-56.1	17,766
Apparel and other textile products	23	922	1,003	1,311	1,232	310	33.6	1,259
Lumber and wood products	24	31,050	29,264	32,345	29,947	-1,552	-5.0	31,289
Furniture and fixtures	25	61,363	54,276	51,525	40,712	-20,651	-33.7	40,961
Paper and allied products	26	201,459	146,849	180,646	176,176	-25,283	-12.6	233,225
Printing and publishing	27	60,694	36,148	34,313	31,375	-29,319	-48.3	31,625
Chemical and allied products	28	979,580	679,468	495,871	492,005	-487,846	-49.8	787,752
Petroleum and coal products	29	67,649	49,334	42,535	40,190	-27,460	-40.6	59,943
Rubber and misc. plastic products	30	146,535	119,295	112,865	100,928	-45,607	-31.1	112,219
Leather and leather products	31	11,928	4,473	3,620	2,649	-9,279	-77.8	3,069
Stone, clay, glass products	32	23,923	12,161	10,836	12,648	-11,276	-47.1	36,042
Primary metal industries	33	471,664	281,310	273,635	291,697	-179,967	-38.2	331,200
Fabricated metals products	34	130,537	88,873	86,511	78,245	-52,292	-40.1	82,585
Industrial machinery and equip...	35	59,463	26,566	23,576	19,293	-40,170	-67.6	23,159
Electronic, electric equipment	36	115,408	32,723	28,850	23,445	-91,963	-79.7	30,489
Transportation equipment	37	188,630	121,900	118,900	104,852	-83,777	-44.4	110,018
Instruments and related products	38	47,210	20,255	13,540	12,202	-35,008	-74.2	16,866
Miscellaneous	39	28,471	15,279	13,828	11,188	-17,283	-60.7	11,450
Multiple codes	20-39	283,311	131,240	137,651	114,132	-169,179	-59.7	149,652
No codes	20-39	10,499	18,029	16,394	7,617	-2,882	-27.5	10,418

X Not applicable. ¹ Standard Industrial Classification, see text, Section 13. ² Chemicals covered for all reporting years. ³ The Environmental Protection Agency added 286 chemicals and chemical categories to the EPCRA section list of 313 list of toxic chemicals.

Source: U.S. Environmental Protection Agency, 1995 Toxics Release Inventory.

No. 406. Toxic Releases, by State: 1988 to 1995

[In thousands of pounds. Excludes delisted chemicals, chemicals added in 1990, 1991, 1994, and 1995, and aluminum oxide, ammonia, hydrochloric acid, and sulfuric acid. See headnote, Table 405]

STATE AND OUTLYING AREAS	1988	1993	1994	1995	STATE AND OUTLYING AREAS	1988	1993	1994	1995
Total	2,962,349	1,893,560	1,700,861	1,610,448	MT	35,587	44,485	46,348	42,615
U.S. total	2,947,832	1,881,528	1,690,827	1,600,889	NE	13,510	9,498	7,989	7,303
AL	103,600	90,151	84,093	88,803	NV	2,288	2,946	3,002	3,175
AK	3,713	2,104	1,095	2,158	NH	12,279	3,185	2,235	1,840
AZ	65,699	11,813	30,504	33,525	NJ	36,331	14,070	12,541	10,882
AR	35,988	23,853	27,568	22,863	NM	30,246	22,938	17,132	17,869
CA	90,479	41,417	33,852	26,460	NY	87,704	33,468	29,394	25,618
CO	13,222	3,958	3,726	3,190	NC	121,477	76,501	77,888	69,164
CT	32,536	12,393	10,062	7,201	ND	1,130	918	977	1,183
DE	6,925	3,914	3,642	2,822	OH	157,020	95,508	90,806	94,078
DC	1	-	29	30	OK	28,263	14,964	12,719	12,862
FL	59,370	45,794	70,223	50,666	OR	17,836	13,985	15,833	17,746
GA	67,892	36,394	41,140	36,503	PA	97,147	43,982	44,628	40,237
HI	834	499	514	398	RI	6,321	3,382	3,026	2,556
ID	7,283	1,870	2,393	2,625	SC	60,584	44,670	42,442	44,180
IL	107,659	69,935	71,707	67,396	SD	2,312	1,891	1,998	1,757
IN	160,767	78,980	65,019	62,657	TN	115,218	95,015	87,016	88,368
IA	38,598	22,572	21,081	19,184	TX	302,813	197,101	187,319	188,296
KS	28,564	16,636	15,843	14,582	UT	123,311	84,202	65,671	68,622
KY	49,698	30,870	29,578	28,013	VT	1,594	616	607	511
LA	241,889	263,611	113,098	119,733	VA	109,750	43,669	42,088	39,248
ME	14,673	8,076	6,055	5,821	WA	25,877	16,707	19,863	20,959
MD	17,996	10,333	10,611	10,106	WV	31,331	18,493	17,898	15,861
MA	26,065	10,045	8,581	6,937	WI	48,633	29,233	29,095	24,266
MI	94,915	71,910	75,924	54,148	WY	16,739	794	875	1,110
MN	54,343	22,078	19,589	16,771	Am. Samoa	-	(Z)	-	-
MS	54,595	42,546	41,332	38,178	Puerto Rico	12,669	10,453	9,073	8,370
MO	85,229	47,557	44,176	39,813	Virgin Island	1,848	1,579	961	1,186

- Represents zero. Z Less than 500 pounds.

Source: U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics, 1995 Toxics Release Inventory, annual.

No. 407. Hazardous Waste Sites on the National Priority List, by State: 1997

[Includes both proposed and final sites listed on the National Priorities List for the Superfund program as authorized by the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and the Superfund Amendments and Reauthorization Act of 1986]

STATE AND OUTLYING AREAS	Total sites	Rank	Per-cent distribution	Federal	Non-federal	STATE AND OUTLYING AREAS	Total sites	Rank	Per-cent distribution	Federal	Non-federal
Total	1,245	(X)	(X)	157	1,088	Montana	9	40	0.73	-	9
United States	1,231	(X)	100.00	155	1,076	Nebraska	10	37	0.81	1	9
Alabama	13	30	1.06	3	10	Nevada	1	49	0.08	-	1
Alaska	7	43	0.57	6	1	New Hampshire	18	19	1.46	1	17
Arizona	10	37	0.81	3	7	New Jersey	110	1	8.94	6	104
Arkansas	11	33	0.89	-	11	New Mexico	10	37	0.81	1	9
California	94	3	7.64	23	71	New York	80	4	6.50	4	76
Colorado	17	20	1.38	3	14	North Carolina	23	17	1.87	2	21
Connecticut	14	29	1.14	1	13	North Dakota	-	50	0.00	-	-
Delaware	17	20	1.38	1	16	Ohio	37	10	3.01	5	32
District of Columbia	-	(X)	0.00	-	-	Oklahoma	11	33	0.89	1	10
Florida	54	6	4.39	6	48	Oregon	11	33	0.89	2	9
Georgia	16	24	1.30	2	14	Pennsylvania	99	2	8.04	6	93
Hawaii	4	45	0.32	3	1	Rhode Island	12	31	0.97	2	10
Idaho	9	40	0.73	2	7	South Carolina	26	15	2.11	2	24
Illinois	41	8	3.33	4	37	South Dakota	2	48	0.16	1	1
Indiana	30	12	2.44	-	30	Tennessee	16	24	1.30	4	12
Iowa	17	20	1.38	1	16	Texas	27	14	2.19	4	23
Kansas	11	33	0.89	2	9	Utah	16	24	1.30	4	12
Kentucky	16	24	1.30	1	15	Vermont	8	42	0.65	-	8
Louisiana	17	20	1.38	1	16	Virginia	25	16	2.03	7	18
Maine	12	31	0.97	3	9	Washington	47	7	3.82	14	33
Maryland	16	24	1.30	6	10	West Virginia	7	43	0.57	2	5
Massachusetts	31	11	2.52	8	23	Wisconsin	39	9	3.17	-	39
Michigan	74	5	6.01	1	73	Wyoming	3	46	0.24	1	2
Minnesota	28	13	2.27	2	26	Guam	2	(X)	(X)	1	1
Mississippi	3	46	0.24	-	3	Puerto Rico	10	(X)	(X)	1	9
Missouri	22	18	1.79	3	19	Virgin Islands	2	(X)	(X)	-	2

- Represents zero. X Not applicable.

Source: U.S. Environmental Protection Agency, *Supplementary Materials: National Priorities List, Proposed Rule*, December 1997.

No. 408. Environmental Industry—Revenues and Employment, by Industry Segment: 1980 to 1997

[Covers approximately 59,000 private and public companies engaged in environmental activities]

INDUSTRY SEGMENT	REVENUE (bil. dol.)					EMPLOYMENT (1,000)				
	1980	1990	1995	1996	1997	1980	1990	1995	1996	1997
Industry total	55.0	149.0	179.0	181.1	185.1	462.5	1,174.3	1,327.0	1,338.0	1,348.0
Analytical services ¹	0.4	1.5	1.2	1.2	1.1	6.0	20.2	14.1	14.0	12.7
Wastewater treatment works ²	10.9	20.4	23.4	24.0	24.7	53.9	95.0	101.5	103.1	104.8
Solid waste management ³	8.5	26.1	32.5	33.9	34.9	83.2	209.5	243.4	245.7	249.9
Hazardous waste management ⁴	0.6	6.3	6.2	6.0	5.8	6.8	56.9	52.5	51.6	49.4
Remediation/industrial services	0.4	8.0	8.6	8.6	8.7	6.9	107.2	98.1	95.7	96.0
Consulting & engineering	1.5	12.5	15.5	15.2	15.0	20.5	144.2	180.2	178.9	174.4
Water equipment & chemicals	6.9	13.5	16.5	17.5	18.0	62.4	97.9	110.2	115.3	117.0
Instrument manufacturing	0.2	2.0	3.0	3.1	3.2	2.5	18.8	26.2	28.5	28.7
Air pollution control equipment ⁵	3.3	13.1	15.0	15.7	16.2	28.3	82.7	107.2	108.7	111.2
Waste management equipment ⁶	4.0	10.4	11.7	12.0	12.2	41.9	88.8	93.8	93.5	94.2
Process & prevention technology	0.1	0.4	0.8	0.8	0.9	2.1	8.9	19.5	20.0	21.2
Water utilities ⁷	11.9	19.8	25.3	26.4	27.0	76.9	104.7	118.2	119.8	121.3
Resource recovery ⁸	4.4	13.1	16.9	14.3	15.0	48.7	118.4	136.0	136.6	141.2
Environmental energy sources ⁹	1.5	1.8	2.3	2.4	2.4	22.4	21.1	26.1	26.4	26.4

¹ Covers environmental laboratory testing and services. ² Mostly revenues collected by municipal entities. ³ Covers such activities as collection, transportation, transfer stations, disposal, landfill ownership, and management for solid waste. ⁴ Transportation and disposal of hazardous, medical, and nuclear waste. ⁵ Includes stationary and mobile sources. ⁶ Includes vehicles, containers, liners, processing, and remediation equipment. ⁷ Revenues generated from the sale of water. ⁸ Revenues generated from the sale of recovered metals, paper, plastic, etc. ⁹ Includes solar, wind, geothermal, and conservation devices.

Source: Environmental Business International, Inc., San Diego, CA, *Environmental Business Journal*, monthly (copyright).

No. 409. Value of Selected Product Shipments for Environmental or Potential Environmental Use: 1995

[In millions of dollars. Based on a sample survey of private businesses involved in the commercial activities of the environmental industry. The environmental industry is defined as the manufacture of products, performance of services and the construction of projects used, or that potentially could be used, for measuring, preventing, limiting, or correcting environmental damage to air, water, and soil]

PRODUCTS	Total ¹	For environmental use	Not for environmental use	PRODUCTS	Total ¹	For environmental use	Not for environmental use
Total products	36,864	14,378	15,199	Solid waste ²	1,741	713	609
Air treatment ²	4,740	4,629	82	Storage containers (including metal and concrete)	879	260	266
Particulate emissions collectors	793	793	-	Energy conservation ²	7,633	2,448	4,880
Catalytic converters	2,702	2,702	-	Wind energy conversion (including turbines, turbine sets, windmills, and parts)	4,054	12	4,042
Water and wastewater treatment ²	10,503	5,230	4,321	Industrial heat exchangers	1,279	678	384
Storage tanks and process vessels (including pressure	1,338	488	731	Ethanol	1,714	1,464	229
Fluid filters (including housings)	729	232	366	Noise pollution control ²	100	63	23
Sewage treatment equipment	792	792	-	Monitoring and analysis ²	12,148	1,296	5,284
Deionization equipment	811	811	-	Industrial process monitoring devices	3,438	530	2,471
Pumps	2,101	362	1,380	Flow measurement devices	5,347	108	573

- Represents or rounds to zero. ¹ Includes unknown use not shown separately. ² Includes products not shown separately.

No. 410. Receipts for Selected Services for Environmental or Potential Environmental Purposes: 1995

[In millions of dollars. See headnote, Table 409]

SERVICES	Total ¹	For environmental purposes	Not for environmental purposes	SERVICES	Total ¹	For environmental purposes	Not for environmental purposes
Total services	111,106	55,720	54,313	Operation of sorting & separation systems	1,093	1,093	-
Air treatment ²	1,249	1,249	-	Site remediation	2,743	2,743	-
Emissions monitoring	704	704	-	Incinerator operations	837	837	-
Water and wastewater treatment ²	9,439	9,398	2	Hazardous clean-up and containment	1,235	1,235	-
Hydrogeological services	1,036	1,036	-	Monitoring, assessment and analysis ²	4,895	4,071	809
Water treatment planning and analysis	1,487	1,487	-	Facility assessment & monitoring	2,263	2,263	-
Sewerage systems (including design and operation)	2,569	2,569	-	Analytical laboratory services	1,694	870	809
Private water supply (including operation & mgt.)	3,168	3,168	-	Administrative, management and engineering ²	59,684	6,275	52,573
Solid waste ²	35,839	34,728	929	Management consulting	41,292	1,993	38,859
Dump trucking	1,599	488	929	Information management	1,522	331	1,175
Waste collection and hauling	17,018	17,018	-	Regulatory and compliance report (incl. Phase 1 & Phase 2 audits)	680	680	-
Hazardous material hauling	2,666	2,666	-	Engineering design	14,384	2,234	11,818
Waste disposal	6,331	6,331	-				

- Represents or rounds to zero. ¹ Includes unknown use not shown separately. ² Includes products not shown separately.

Source of Tables 409 and 410: U.S. Environmental Protection Agency and U.S. International Trade Administration, *Survey of Environmental Products and Services*, February 1998.

No. 411. Threatened and Endangered Wildlife and Plant Species—Number: 1998

[As of April. Endangered species: One in danger of becoming extinct throughout all or a significant part of its natural range. Threatened species: One likely to become endangered in the foreseeable future]

ITEM	Mam-mals	Birds	Rep-tiles	Amphib-ians	Fishes	Snails	Clams	Crusta-ceans	Insects	Arach-nids	Plants
Total listings	333	274	114	25	119	23	71	19	41	5	672
Endangered species, total	310	253	80	17	78	16	63	16	32	5	554
United States	59	75	14	9	67	15	61	16	28	5	553
Foreign	251	178	66	8	11	1	2	-	4	-	1
Threatened species, total	23	21	34	8	41	7	8	3	9	-	118
United States	7	15	20	7	41	7	8	3	9	-	116
Foreign	16	6	14	1	-	-	-	-	-	-	2

- Represents zero.

Source: U.S. Fish and Wildlife Service, *Endangered Species Technical Bulletin*, quarterly.

No. 412. Major U.S. Weather Disasters: 1980 to 1998

[Covers only weather related disasters costing \$1 billion or more]

EVENT	Description	Time period	Estimated cost (bil. dol.)	Deaths
Southeast severe weather	Tornadoes and flooding related to strong El Nino in the southeast	Winter/Spring 1998	\$1	Over 130
Northern plains flooding	Severe flooding in Dakotas and Minnesota due to heavy spring snowmelt	April-May 1977	\$2	11
MS and OH valleys flooding and tornadoes	Tornadoes and severe flooding hit the states of AR, MO, MS, TN, IL, IN, KY, OH, and WV	March 1997	\$1	67
West Coast flooding	Flooding from rains and snowmelt in CA, WA, OR, ID, NV, & MT	Dec. 1996-Jan. 1997	\$2-\$3	36
Hurricane Fran	Category 3 hurricane in NC and VA	Sept. 1996	\$5	37
Southern Plains severe drought	Drought in agricultural areas of TX & OK	Fall 1995-summer 1996	Over \$4	(NA)
Pacific Northwest severe flooding	Flooding from heavy rain & snowmelt in OR, WA, ID, and MT	Feb. 1996	\$1	9
Blizzard of '96 followed by flooding	Heavy snowstorm followed by severe flooding in Appalachians, Mid-Atlantic, and Northeast	Jan. 1996	\$3	187
Hurricane Opal	Category 3 hurricane in FL, AL, parts of GA, TN, & Carolinas	Oct. 1995	Over \$3	27
Hurricane Marilyn	Category 2 hurricane in Virgin Islands	Sept. 1995	\$2	13
TX/OK/LA/MS severe weather and flooding	Flooding, hail, & tornadoes across TX, OK, parts of LA, MS, Dallas & New Orleans hardest hit	May 1995	\$5-\$6	32
California flooding	Flooding from frequent winter storms across much of CA	Jan.-Mar. 1995	\$3	27
Texas flooding	Flooding from torrential rain & thunderstorms across southeast TX	Oct. 1994	\$1	19
Tropical storm Alberto	Flooding due to 10 to 25 inch rain across GA, AL, part of FL	July 1994	\$1	32
Southeast ice storm	Intense ice storm in pts of TX, OK, AR, LA, MS, AL, TN, GA, SC, NC, & VA	Feb. 1994	\$3	9
California wildfires	Out-of-control wildfires over southern CA	Fall 1993	\$1	4
Midwest flooding	Extreme flooding across central U.S.	Summer 1993	\$15-\$20	48
Drought/heat wave	Extreme drought/heatwave across southeastern U.S.	Summer 1993	\$1	(NA)
Storm/blizzard	Storm/blizzard over eastern U.S.	Mar. 1993	\$3-\$6	270
Nor'easter of 1992	Slow-moving storm batters northeast U.S. coast, New England hardest hit	Dec. 1992	\$1-\$2	19
Hurricane Iniki	Category 4 hurricane hit Hawaiian island of Kauai	Sept. 1992	1.8	7
Hurricane Andrew	Category 4 hurricane hit FL & LA	Aug. 1992	\$27	58
Oakland firestorm	Oakland, CA firestorm due to low humidity & high winds	Oct. 1991	\$1.5	25
Hurricane Bob	Category 2 hurricane—mainly coastal NC, Long Island, & New England	Aug. 1991	\$1.5	18
Hurricane Hugo	Category 4 hurricane hit Puerto Rico & Virgin Islands, devastated NC & SC	Sept. 1989	Over \$9	86
Drought/heat wave	Drought/heatwave over central & eastern U.S.	Summer 1988	\$40	5,000-10,000
Hurricane Juan	Category 1 hurricane, flooding most severe problem, hit LA and southeast U.S.	Oct.-Nov. 1985	\$1.5	63
Hurricane Elena	Category 3 hurricane across FL to LA	Aug.-Sept. 1985	\$1.3	4
Florida freeze	Severe freeze central/northern FL, damage to citrus industry	Dec. 1983	\$2	-
Hurricane Alicia	Category 3 hurricane across TX	Aug. 1983	\$3	21
Drought/heat wave	Drought/heatwave over central & eastern U.S.	June-Sept. 1980	\$20	10,000

- Represents zero. NA Not available or not reported.

Source: U.S. National Oceanic and Atmospheric Administration, National Climatic Data Center. "Billion Dollar U.S. Weather Disaster, 1980-1998," June 1, 1998. <<http://www.ncdc.noaa.gov/publications/billionz.html>>.

No. 413. Tornadoes, Floods, and Tropical Storms: 1986 to 1996

ITEM	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Tornadoes, number ¹	764	656	702	856	1,133	1,132	1,298	1,176	1,082	1,235	1,170
Tornado days	168	151	156	160	181	179	195	186	199	178	196
Lives lost, total	15	59	32	50	53	39	39	33	69	30	25
Most in a single tornado	3	30	5	21	29	17	12	7	22	6	5
Floods and flash floods:											
Lives lost	80	71	31	85	142	61	39	103	89	79	164
North Atlantic tropical storms and hurricanes ²	6	7	12	11	14	8	7	8	7	19	13
Number of hurricanes reaching U.S. mainland	2	1	1	3	-	1	1	1	-	2	2
Total direct deaths from tropical storms and hurricanes	9	3	550	84	123	17	28	273	1,175	121	138
Direct deaths on U.S. mainland	9	-	6	56	10	17	26	9	38	29	33
Property loss in U.S.	17	8	59	7,670	57	1,500	26,500	57	973	3,729	3,600

- Represents zero. ¹ A violent, rotating column of air descending from a cumulonimbus cloud in the form of a tubular- or funnel-shaped cloud, usually characterized by movements along a narrow path and wind speeds from 100 to over 300 miles per hour. Also known as a "twister" or "waterspout." ² Source: National Hurricane Center, Coral Gables, FL, unpublished data. Tropical storms have maximum winds of 39 to 73 miles per hour; hurricanes have maximum winds of 74 miles per hour or higher.

Source: Except as noted, U.S. National Oceanic and Atmospheric Administration, *Storm Data*, monthly.

No. 414. Highest and Lowest Temperatures, by State Through 1996

STATE	HIGHEST TEMPERATURES			LOWEST TEMPERATURES		
	STATION	Temperature (F)	Date	STATION	Temperature (F)	Date
U.S. . . .	Greenland Ranch, CA. . .	134	Jul. 10, 1913	Prospect Creek, AK . . .	-80	Jan. 23, 1971
AL	Centerville	112	Sep. 5, 1925	New Market	-27	Jan. 30, 1966
AK	Fort Yukon	100	Jun. 27, 1915	Prospect Creek	-80	Jan. 23, 1971
AZ	Lake Havasu City	128	Jun. 29, 1994	Hawley Lake	-40	Jan. 7, 1971
AR	Ozark	120	Aug. 10, 1936	Pond	-29	Feb. 13, 1905
CA	Greenland Ranch	134	Jul. 10, 1913	Boca	-45	Jan. 20, 1937
CO	Bennett	118	Jul. 11, 1888	Maybell	-61	Feb. 1, 1985
CT	Danbury	105	Jul. 21, 1991 ¹	Falls Village	-32	Feb. 16, 1943
DE	Millsboro	110	Jul. 21, 1930	Millsboro	-17	Jan. 17, 1893
FL	Monticello	109	Jun. 29, 1931	Tallahassee	-2	Feb. 13, 1899
GA	Louisville	112	Jul. 24, 1952	CCC Camp F-16	-17	Jan. 27, 1940
HI	Pahala	100	Apr. 27, 1931	Mauna Kea Obs. 111.2	12	May 17, 1979
ID	Orofino	118	Jul. 28, 1934	Island Park Dam	-60	Jan. 18, 1943
IL	East St. Louis	117	Jul. 14, 1954	Elizabeth	-35	Feb. 3, 1996 ¹
IN	Collegeville	116	Jul. 14, 1936	New Whiteland	-36	Jan. 19, 1994
IA	Keokuk	118	Jul. 20, 1934	Elkader	-47	Feb. 3, 1996 ¹
KS	Alton (near)	121	Jul. 24, 1936 ¹	Lebanon	-40	Feb. 13, 1905
KY	Greensburg	114	Jul. 28, 1930	Cynthiana	-34	Jan. 28, 1963
LA	Plain Dealing	114	Aug. 10, 1936	Minden	-16	Feb. 13, 1899
ME	North Bridgton	105	Jul. 10, 1911 ¹	Van Buren	-48	Jan. 19, 1925
MD	Cumberland	109	Jul. 10, 1936 ¹	Oakland	-40	Jan. 13, 1912
MA	New Bedford	107	Aug. 2, 1975	Chester	-35	Jan. 12, 1981
MI	Mio	112	Jul. 13, 1936	Vanderbilt	-51	Feb. 9, 1934
MN	Moorhead	114	Jul. 6, 1936 ¹	Tower	-60	Feb. 2, 1996
MS	Holly Springs	115	Jul. 29, 1930	Corinth	-19	Jan. 30, 1966
MO	Warsaw	118	Jul. 14, 1954 ¹	Warsaw	-40	Feb. 13, 1905
MT	Medicine Lake	117	Jul. 5, 1937	Rogers Pass	-70	Jan. 20, 1954
NE	Minden	118	Jul. 24, 1936 ¹	Camp Clarke	-47	Feb. 12, 1899
NV	Laughlin	125	Jun. 29, 1994	San Jacinto	-50	Jan. 8, 1937
NH	Nashua	106	Jul. 4, 1911	Pittsburg	-46	Jan. 28, 1925
NJ	Runyon	110	Jul. 10, 1936	River Vale	-34	Jan. 5, 1904
NM	Waste Isolat Pilot Plt	122	Jun. 27, 1994	Gavilan	-50	Feb. 1, 1951
NY	Troy	108	Jul. 22, 1926	Old Forge	-52	Feb. 18, 1979 ¹
NC	Fayetteville	110	Aug. 21, 1983	Mt. Mitchell	-34	Jan. 21, 1985
ND	Steele	121	Jul. 6, 1936	Parshall	-60	Feb. 15, 1936
OH	Gallipolis (near)	113	Jul. 21, 1934 ¹	Milligan	-39	Feb. 10, 1899
OK	Tipton	120	Jun. 27, 1994 ¹	Watts	-27	Jan. 18, 1930
OR	Pendleton	119	Aug. 10, 1898	Seneca	-54	Feb. 10, 1933 ¹
PA	Phoenixville	111	Jul. 10, 1936 ¹	Smethport	-42	Jan. 5, 1904
RI	Providence	104	Aug. 2, 1975	Greene	-25	Feb. 5, 1996
SC	Camden	111	Jun. 28, 1954 ¹	Caesars Head	-19	Jan. 21, 1985
SD	Gannvalley	120	Jul. 5, 1936	McIntosh	-58	Feb. 17, 1936
TN	Perryville	113	Aug. 9, 1930 ¹	Mountain City	-32	Dec. 30, 1917
TX	Seymour	120	Aug. 12, 1936	Seminole	-23	Feb. 8, 1933 ¹
UT	Saint George	117	Jul. 5, 1985	Peter's Sink	-69	Feb. 1, 1985
VT	Vernon	105	Jul. 4, 1911	Bloomfield	-50	Dec. 30, 1933
VA	Balcony Falls	110	Jul. 15, 1954	Mtn. Lake Bio. Stn.	-30	Jan. 22, 1985
WA	Ice Harbor Dam	118	Aug. 5, 1961 ¹	Mazama	-48	Dec. 30, 1968
WV	Martinsburg	112	Jul. 10, 1936 ¹	Lewisburg	-37	Dec. 30, 1917
WI	Wisconsin Dells	114	Jul. 13, 1936	Danbury	-54	Jan. 24, 1922
WY	Basin	114	Jul. 12, 1900	Riverside R.S.	-66	Feb. 9, 1933

¹ Also on earlier dates at the same or other places.

Source: U.S. National Oceanic and Atmospheric Administration, (accessed December 11, 1997).

No. 415. Normal Daily Mean, Maximum, and Minimum Temperatures—Selected Cities

[In Fahrenheit degrees. Airport data except as noted. Based on standard 30-year period, 1961 through 1990]

STATE	STATION	DAILY MEAN TEMPERATURE			DAILY MAXIMUM TEMPERATURE			DAILY MINIMUM TEMPERATURE		
		Jan.	July	Annual average	Jan.	July	Annual average	Jan.	July	Annual average
AL	Mobile	49.9	82.3	67.5	59.7	91.3	77.4	40.0	73.2	57.4
AK	Juneau	24.2	56.0	40.6	29.4	63.9	46.9	19.0	48.1	34.1
AZ	Phoenix	53.6	93.5	72.6	65.9	105.9	85.9	41.2	81.0	59.3
AR	Little Rock	39.1	81.9	61.8	49.0	92.4	72.5	29.1	71.5	51.0
CA	Los Angeles	56.8	69.1	63.0	65.7	75.3	70.4	47.8	62.8	55.5
	Sacramento	45.2	75.7	60.8	52.7	93.2	73.5	37.7	58.1	48.1
	San Diego	57.4	71.0	64.2	65.9	76.2	70.8	48.9	65.7	57.6
	San Francisco	48.7	62.7	57.1	55.6	71.6	65.2	41.8	53.9	49.0
	San Jose	29.7	73.5	50.3	43.2	88.2	64.2	16.1	58.6	36.2
CO	Denver	24.6	73.7	49.9	33.2	85.0	60.2	15.8	62.2	39.5
CT	Hartford	30.6	76.4	54.2	38.7	85.6	63.6	22.4	67.1	44.8
DE	Wilmington	34.6	80.0	58.0	42.3	88.5	66.9	26.8	71.4	49.2
DC	Washington									
FL	Jacksonville	52.4	81.6	68.0	64.2	91.4	78.9	40.5	71.9	57.1
	Miami	67.2	82.6	75.9	75.2	89.0	82.8	59.2	76.2	69.0
GA	Atlanta	41.0	78.8	61.3	50.4	88.0	71.2	31.5	69.5	51.3
HI	Honolulu	72.9	80.5	77.2	80.1	87.5	84.4	65.6	73.5	70.0
ID	Boise	29.0	74.0	50.9	36.4	90.2	62.8	21.6	57.7	39.1
IL	Chicago	21.0	73.2	49.0	29.0	83.7	58.6	12.9	62.6	39.5
	Peoria	21.6	75.5	50.7	29.9	85.7	60.4	13.2	65.4	41.0
IN	Indianapolis	25.5	75.4	52.3	33.7	85.5	62.1	17.2	65.2	42.4
IA	Des Moines	19.4	76.6	49.9	28.1	86.7	59.8	10.7	66.5	40.0
KS	Wichita	29.5	81.4	56.2	39.8	92.8	67.4	19.2	69.9	45.0
KY	Louisville	31.7	77.2	56.1	40.3	87.0	66.0	23.2	67.3	46.0
LA	New Orleans	51.3	81.9	68.1	60.8	90.6	77.6	41.8	73.1	58.5
ME	Portland	20.8	68.6	45.4	30.3	78.8	54.9	11.4	58.3	35.8
	Baltimore	31.8	77.0	55.1	40.2	87.2	65.0	23.4	66.8	45.2
MA	Boston	28.6	73.5	51.3	35.7	81.8	59.0	21.6	65.1	43.6
MI	Detroit	22.9	72.3	48.6	30.3	83.3	58.1	15.6	61.3	39.0
	Sault Ste. Marie	12.9	63.8	39.7	21.1	76.3	49.6	4.6	51.3	29.8
	Duluth	7.0	66.1	38.5	16.2	77.1	47.9	-2.2	55.1	29.0
MN	Minneapolis-St. Paul	11.8	73.6	44.9	20.7	84.0	54.3	2.8	63.1	35.3
MS	Jackson	44.1	81.5	64.2	55.6	92.4	76.4	32.7	70.5	52.0
MO	Kansas City	25.7	78.5	53.6	34.7	88.7	63.6	16.7	68.2	43.7
	St. Louis	29.3	79.8	56.1	37.7	89.3	65.4	20.8	70.4	46.7
MT	Great Falls	21.2	68.2	44.8	30.6	83.3	56.4	11.6	53.2	33.1
NE	Omaha	21.1	76.9	50.6	31.3	87.9	61.5	10.9	65.9	39.5
NV	Reno	32.9	71.6	50.8	45.1	91.9	66.8	20.7	51.3	34.7
NH	Concord	18.6	69.5	45.1	29.8	82.4	57.0	7.4	56.5	33.1
NJ	Atlantic City	30.9	74.7	53.0	40.4	84.5	63.2	21.4	64.8	42.8
NM	Albuquerque	34.2	78.5	56.2	46.8	92.5	70.1	21.7	64.4	42.2
	Albany	20.6	71.8	47.4	30.2	84.0	58.1	11.0	59.6	36.6
NY	Buffalo	23.6	71.1	47.7	30.2	80.2	55.8	17.0	61.9	39.5
	New York ¹	31.5	76.8	54.7	37.6	85.2	62.3	25.3	68.4	47.1
	Charlotte	39.3	79.3	60.1	49.0	88.9	70.4	29.6	69.6	49.7
NC	Raleigh	38.9	78.1	59.3	48.9	88.0	70.1	28.8	68.1	48.4
	Bismarck	9.2	70.4	41.6	20.2	84.4	53.8	-1.7	56.4	29.4
OH	Cincinnati	28.1	75.1	53.2	36.6	85.5	63.2	19.5	64.8	43.2
	Cleveland	24.8	71.9	49.6	31.9	82.4	58.7	17.6	61.4	40.5
	Columbus	26.4	73.2	51.4	34.1	83.7	61.2	18.5	62.7	41.6
OK	Oklahoma City	35.9	82.0	60.0	46.7	93.4	71.1	25.2	70.6	48.8
OR	Portland	39.6	68.2	53.6	45.4	79.9	62.6	33.7	56.5	44.5
	Philadelphia	30.4	76.7	54.3	37.9	86.1	63.4	22.8	67.2	45.1
PA	Pittsburgh	26.1	72.1	50.3	33.7	82.6	59.9	18.5	61.6	40.7
RI	Providence	27.9	72.7	50.4	36.6	82.1	59.8	19.1	63.2	41.0
SC	Columbia	43.8	80.8	63.1	55.3	91.6	75.1	32.1	70.0	50.9
SD	Sioux Falls	13.8	74.3	45.5	24.3	86.3	56.8	3.3	62.3	34.2
TN	Memphis	39.7	82.6	62.3	48.5	92.3	72.1	30.9	72.9	52.4
	Nashville	36.2	79.3	59.1	45.9	89.5	69.8	26.5	68.9	48.4
TX	Dallas-Fort Worth	43.4	85.3	65.4	54.1	96.5	76.3	32.7	74.1	54.6
	El Paso	42.8	82.3	63.2	56.1	96.1	77.5	29.4	68.4	49.0
	Houston	50.4	82.6	67.9	61.0	92.7	78.6	39.7	72.4	57.3
UT	Salt Lake City	27.9	77.9	52.0	36.4	92.2	63.6	19.3	63.7	40.3
VT	Burlington	16.3	70.5	44.6	25.1	81.2	54.0	7.5	59.7	35.2
VA	Norfolk	39.1	78.2	59.2	47.3	86.4	67.8	30.9	70.0	50.6
	Richmond	35.7	78.0	57.7	45.7	88.4	68.8	25.7	67.5	46.6
WA	Seattle-Tacoma	40.1	65.2	52.0	45.0	75.2	59.4	35.2	55.2	44.6
	Spokane	27.1	68.8	47.3	33.2	83.1	57.5	20.8	54.4	36.9
WV	Charleston	32.1	75.1	55.0	41.2	85.7	65.8	23.0	64.4	44.2
WI	Milwaukee	18.9	70.9	46.1	26.1	79.9	54.3	11.6	62.0	37.9
WY	Cheyenne	26.5	68.4	45.6	37.7	82.2	58.0	15.2	54.6	33.2
PR	San Juan	77.0	82.6	80.2	83.2	88.5	86.4	70.8	76.8	74.0

¹ City office data.Source: U.S. National Oceanic and Atmospheric Administration, *Climatology of the United States*, No. 81.

No. 416. Highest Temperature of Record—Selected Cities

[In Fahrenheit degrees. Airport data, except as noted. For period of record through 1995]

STATE	STATION	Length of record (yr.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
AL	Mobile	54	84	82	90	94	100	102	104	102	99	93	87	81	104
AK	Juneau	51	57	57	59	72	82	86	90	83	72	61	56	54	90
AZ	Phoenix	58	88	92	100	105	113	122	121	116	118	107	93	88	122
AR	Little Rock	54	83	85	91	95	98	105	112	108	106	97	86	80	112
CA	Los Angeles	60	88	92	95	102	97	104	97	98	110	106	101	94	110
	Sacramento	45	70	76	88	93	105	115	114	109	108	101	87	72	115
	San Diego	55	88	90	93	98	96	101	95	98	111	107	97	88	111
	San Francisco	68	72	78	85	92	97	106	105	100	103	99	85	75	106
CO	Denver	61	73	76	84	90	96	104	104	101	97	89	79	75	104
CT	Hartford	41	65	73	87	96	97	100	102	101	99	91	81	74	102
DC	Wilmington	48	75	78	86	94	95	100	102	101	100	91	85	74	102
	Washington	54	79	82	89	95	99	101	104	103	101	94	86	75	104
FL	Jacksonville	54	85	88	91	95	100	103	105	102	100	96	88	84	105
GA	Miami	53	88	89	92	96	96	98	98	98	97	95	89	87	98
HI	Atlanta	47	79	80	89	93	95	101	105	102	98	95	84	79	105
IA	Honolulu	26	87	88	88	89	93	92	94	93	95	94	93	89	95
ID	Boise	56	63	71	81	92	98	109	111	110	102	94	74	65	111
IL	Chicago	37	65	71	88	91	93	104	104	101	99	91	78	71	104
	Peoria	56	70	72	86	92	93	105	103	103	100	90	81	71	105
IN	Indianapolis	56	71	74	85	89	93	102	104	102	100	90	81	74	104
IA	Des Moines	56	65	73	91	93	98	103	105	108	101	95	76	69	108
KS	Wichita	43	75	84	89	96	100	110	113	110	107	95	85	83	113
KY	Louisville	48	77	77	86	91	95	102	105	101	104	92	84	76	105
LA	New Orleans	49	83	85	89	92	96	100	101	102	101	92	87	84	102
ME	Portland	55	64	64	86	85	94	98	99	103	95	88	74	69	103
MD	Baltimore	45	75	79	87	94	98	101	104	105	100	92	83	77	105
MA	Boston	44	66	70	81	94	95	100	102	102	100	90	79	73	102
MI	Detroit	37	62	65	81	89	93	104	102	100	98	91	77	68	104
	Sault Ste. Marie	55	45	47	75	85	89	93	97	98	95	80	67	60	98
MN	Duluth	54	52	55	78	88	90	94	97	97	95	86	70	55	97
	Minneapolis-St. Paul	57	58	60	83	95	96	102	105	102	98	89	75	63	105
MS	Jackson	32	82	85	89	94	99	105	106	102	104	95	88	84	106
MO	Kansas City	23	69	77	86	93	92	105	107	109	102	92	82	70	109
	St. Louis	50	76	81	87	93	93	101	113	106	104	93	80	77	113
MT	Great Falls	58	67	70	78	89	93	101	105	106	98	91	76	69	106
NE	Omaha	59	69	78	89	97	99	105	114	110	104	96	80	72	114
NV	Reno	54	70	75	83	89	96	103	104	105	101	91	77	70	105
NH	Concord	54	68	66	85	95	97	98	102	101	98	90	80	68	102
NJ	Atlantic City	52	78	75	87	94	99	106	104	102	99	90	84	75	106
NM	Albuquerque	56	69	76	85	89	98	107	105	101	100	91	77	72	107
NY	Albany	49	65	67	86	92	94	99	100	99	100	89	82	71	100
	Buffalo	52	72	65	81	94	90	96	97	99	98	87	80	74	99
	New York	127	72	75	86	96	99	101	106	104	102	94	84	72	106
NC	Charlotte	56	78	81	90	93	100	103	103	103	104	98	85	77	104
	Raleigh	51	79	84	92	95	97	104	105	105	104	98	88	79	105
ND	Bismarck	56	62	69	81	93	98	107	109	109	105	95	75	65	109
OH	Cincinnati	34	69	73	84	89	93	102	103	102	98	88	81	75	103
	Cleveland	54	73	69	83	88	92	104	103	102	101	90	82	77	104
	Columbus	56	74	73	85	89	94	102	100	101	100	90	80	76	102
OK	Oklahoma City	42	80	84	93	100	104	105	109	110	102	96	87	86	110
OR	Portland	55	63	71	80	87	100	100	107	107	105	92	73	65	107
PA	Philadelphia	54	74	74	87	94	97	100	104	101	100	96	81	72	104
	Pittsburgh	43	69	69	82	89	91	98	103	100	97	87	82	74	103
RI	Providence	42	69	72	80	98	94	97	102	104	100	86	78	70	104
SC	Columbia	48	84	84	91	94	101	107	107	107	101	101	90	83	107
SD	Sioux Falls	50	66	70	87	94	100	110	108	108	104	94	76	61	110
TN	Memphis	54	78	81	85	94	99	104	108	105	103	95	85	81	108
	Nashville	56	78	84	86	91	97	106	107	104	105	94	84	79	107
TX	Dallas-Fort Worth	42	88	88	96	95	103	113	110	108	106	102	89	88	113
	El Paso	56	80	83	89	98	104	114	112	108	104	96	87	80	114
	Houston	26	84	91	91	95	97	103	104	107	102	96	89	85	107
UT	Salt Lake City	67	62	69	78	86	93	104	107	106	100	89	75	69	107
VT	Burlington	52	66	62	84	91	93	100	100	101	94	85	75	65	101
VA	Norfolk	47	78	81	88	97	100	101	103	104	99	95	86	80	104
	Richmond	66	80	83	93	96	100	104	105	102	103	99	86	80	105
WA	Seattle-Tacoma	51	64	70	75	85	93	96	100	99	98	89	74	64	100
	Spokane	48	59	63	71	90	96	101	103	108	98	86	67	56	108
WV	Charleston	48	79	78	89	94	93	98	104	101	102	92	85	80	104
WI	Milwaukee	55	62	65	82	91	93	101	103	103	98	89	77	63	103
WY	Cheyenne	60	66	71	74	83	90	100	100	96	95	83	73	69	100
PR	San Juan	41	92	96	96	97	96	97	95	97	97	98	96	94	98

¹ City office data.

Source: U.S. National Oceanic and Atmospheric Administration, *Comparative Climatic Data*, annual.

No. 417. Lowest Temperature of Record—Selected Cities

[In Fahrenheit degrees. Airport data, except as noted. For period of record through 1995]

STATE	STATION	Length of record (yr.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
AL	Mobile	54	3	11	21	32	43	49	60	59	42	30	22	8	3
AK	Juneau	51	-22	-22	-15	6	25	31	36	27	23	11	-5	-21	-22
AZ	Phoenix	58	17	22	25	32	40	50	61	60	47	34	25	22	17
AR	Little Rock	54	-4	-5	11	28	40	46	54	52	37	29	17	-1	-5
CA	Los Angeles	60	23	32	34	39	43	48	49	51	47	41	34	32	23
	Sacramento	45	23	23	26	32	36	41	48	49	43	36	26	18	18
	San Diego	55	29	36	39	41	48	51	55	57	51	43	38	34	29
	San Francisco	68	24	25	30	31	36	41	43	42	38	34	25	20	20
CO	Denver	61	-25	-30	-11	-2	22	30	43	41	17	3	-8	-25	-30
CT	Hartford	41	-26	-21	-6	9	28	37	44	36	30	17	1	-14	-26
DE	Wilmington	48	-14	-6	2	18	30	41	48	43	36	24	14	-7	-14
DC	Washington	54	-5	4	11	24	34	47	54	49	39	29	16	1	-5
FL	Jacksonville	54	7	19	23	34	45	47	61	63	48	36	21	11	7
	Miami	53	30	32	32	46	53	60	69	68	68	51	39	30	30
GA	Atlanta	47	-8	5	10	26	37	46	53	55	36	28	3	-	-8
HI	Honolulu	26	53	53	55	57	60	65	66	67	66	61	57	54	53
ID	Boise	56	-17	-15	6	19	22	31	35	34	23	11	-3	-25	-25
IL	Chicago	37	-27	-17	-8	7	24	36	40	41	28	17	1	-25	-27
	Peoria	56	-25	-18	-10	14	25	39	47	41	26	19	-2	-23	-25
IN	Indianapolis	56	-27	-21	-7	16	28	37	44	41	28	17	-2	-23	-27
IA	Des Moines	56	-24	-20	-22	9	30	38	47	40	26	14	-4	-22	-24
KS	Wichita	43	-12	-21	-2	15	31	43	51	48	31	18	1	-16	-21
KY	Louisville	48	-22	-19	-1	22	31	42	50	46	33	23	-1	-15	-22
LA	New Orleans	49	14	19	25	32	41	50	60	60	42	35	24	11	11
ME	Portland	55	-26	-39	-21	8	23	33	40	33	23	15	3	-21	-39
MD	Baltimore	45	-7	-3	6	20	32	40	50	45	35	25	13	-	-7
MA	Boston	44	-12	-4	6	16	34	45	50	47	38	28	15	-7	-12
MI	Detroit	37	-21	-15	-4	10	25	36	41	38	29	17	9	-10	-21
	Sault Ste. Marie	55	-36	-35	-24	-2	18	26	36	29	25	16	-10	-31	-36
MN	Duluth	54	-39	-33	-29	-5	17	27	35	32	22	8	-23	-34	-39
	Minneapolis-St. Paul	57	-34	-28	-32	2	18	34	43	39	26	15	-17	-29	-34
MS	Jackson	32	2	11	15	27	38	47	51	55	35	26	17	4	2
MO	Kansas City	23	-17	-19	-10	12	30	42	52	43	31	17	1	-23	-23
	St. Louis	38	-18	-10	-5	22	31	43	51	47	36	23	1	-16	-18
MT	Great Falls	58	-37	-35	-29	-6	15	31	40	30	20	-11	-25	-43	-43
NE	Omaha	59	-23	-21	-16	5	27	38	44	43	25	13	-9	-23	-23
NV	Reno	54	-16	-16	-2	13	18	25	33	24	20	8	1	-16	-16
NH	Concord	54	-33	-37	-16	8	21	30	35	29	21	10	-5	-22	-37
NJ	Atlantic City	52	-10	-11	5	12	25	37	42	40	32	20	10	-7	-11
NM	Albuquerque	56	-17	-5	8	19	28	40	52	50	37	21	-7	-7	-17
NY	Albany	49	-28	-21	-21	10	26	36	40	34	24	16	5	-22	-28
	Buffalo	52	-16	-20	-7	12	26	35	43	38	32	20	9	-10	-20
	New York	127	-6	-15	3	12	32	44	52	50	39	28	5	-13	-15
NC	Charlotte	56	-5	5	4	24	32	45	53	53	39	24	11	2	-5
	Raleigh	51	-9	5	11	23	31	38	48	46	37	19	11	4	-9
ND	Bismarck	56	-44	-43	-31	-12	15	30	35	33	11	-10	-30	-43	-44
OH	Cincinnati	34	-25	-11	-11	17	27	39	47	43	31	16	1	-20	-25
	Cleveland	54	-20	-15	-5	10	25	31	41	38	32	19	3	-15	-20
	Columbus	56	-22	-13	-6	14	25	35	43	39	31	20	5	-17	-22
OK	Oklahoma City	42	-4	-3	3	20	37	47	53	51	36	16	11	-8	-8
OR	Portland	55	-2	-3	19	29	39	43	44	34	26	13	6	-	-3
PA	Philadelphia	54	-7	-4	7	19	28	44	51	44	35	25	15	1	-7
	Pittsburgh	43	-22	-12	-1	14	26	34	42	39	31	16	-1	-12	-22
RI	Providence	42	-13	-7	1	14	29	41	48	40	33	20	6	-10	-13
SC	Columbia	48	-1	5	4	26	34	44	54	53	40	23	12	4	-1
SD	Sioux Falls	50	-36	-31	-23	5	17	33	38	34	22	9	-17	-28	-36
TN	Memphis	54	-4	-11	12	29	38	48	52	48	36	25	9	-13	-13
	Nashville	56	-17	-13	2	23	34	42	51	47	36	26	-1	-10	-17
TX	Dallas-Fort Worth	42	4	7	15	29	41	51	59	56	43	29	20	-1	-1
	El Paso	56	-8	8	14	23	31	46	57	56	41	25	1	5	-8
	Houston	26	12	20	22	31	44	52	62	60	48	29	19	7	7
UT	Salt Lake City	67	-22	-30	2	14	25	35	40	37	27	16	-14	-21	-30
VT	Burlington	52	-30	-30	-20	2	24	33	39	35	25	15	-2	-26	-30
VA	Norfolk	47	-3	8	18	28	36	45	54	49	45	27	20	7	-3
	Richmond	66	-12	-10	11	23	31	40	51	46	35	21	10	-1	-12
WA	Seattle-Tacoma	51	-	1	11	29	28	38	43	44	35	28	6	6	-
	Spokane	48	-22	-17	-7	17	24	33	37	35	24	10	-21	-25	-25
WV	Charleston	48	-16	-6	-	19	26	33	46	41	34	17	6	-12	-16
WI	Milwaukee	55	-26	-19	-10	12	21	33	40	44	28	18	-5	-20	-26
WY	Cheyenne	60	-29	-34	-21	-8	16	25	38	36	8	-1	-16	-28	-34
PR	San Juan	41	61	62	60	64	66	69	69	70	69	67	66	63	60

- Represents zero. ¹ City office data.Source: U.S. National Oceanic and Atmospheric Administration, *Comparative Climatic Data*, annual.

No. 418. Normal Monthly and Annual Precipitation—Selected Cities

[In inches. Airport data, except as noted. Based on standard 30-year period, 1961 through 1990]

STATE	STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
AL	Mobile	4.76	5.46	6.41	4.48	5.74	5.04	6.85	6.96	5.91	2.94	4.10	5.31	63.96
AK	Juneau	4.54	3.75	3.28	2.77	3.42	3.15	4.16	5.32	6.73	7.84	4.91	4.44	54.31
AZ	Phoenix	0.67	0.68	0.88	0.22	0.12	0.13	0.83	0.96	0.86	0.65	0.66	1.00	7.66
AR	Little Rock	3.42	3.61	4.91	5.49	5.17	3.57	3.60	3.26	4.05	3.75	5.20	4.83	50.86
CA	Los Angeles	2.40	2.51	1.98	0.72	0.14	0.03	0.01	0.15	0.31	0.34	1.76	1.66	12.01
	Sacramento	3.73	2.87	2.57	1.16	0.27	0.12	0.05	0.07	0.37	1.08	2.72	2.51	17.52
	San Diego	1.80	1.53	1.77	0.79	0.19	0.07	0.02	0.10	0.24	0.37	1.45	1.57	9.90
	San Francisco	4.35	3.17	3.06	1.37	0.19	0.11	0.03	0.05	0.20	1.22	2.86	3.09	19.70
CO	Denver	0.50	0.57	1.28	1.71	2.40	1.79	1.91	1.51	1.24	0.98	0.87	0.64	15.40
CT	Hartford	3.41	3.23	3.63	3.85	4.12	3.75	3.19	3.65	3.79	3.57	4.04	3.91	44.14
DE	Wilmington	3.03	2.91	3.43	3.39	3.84	3.55	4.23	3.40	3.43	2.88	3.27	3.48	40.84
DC	Washington	2.72	2.71	3.17	2.71	3.66	3.38	3.80	3.91	3.31	3.02	3.12	3.12	38.63
FL	Jacksonville	3.31	3.93	3.68	2.77	3.55	5.69	5.60	7.93	7.05	2.90	2.19	2.72	51.32
	Miami	2.01	2.08	2.39	2.85	6.21	9.33	5.70	7.58	7.63	5.64	2.66	1.83	55.91
GA	Atlanta	4.75	4.81	5.77	4.26	4.29	3.56	5.01	3.66	3.42	3.05	3.86	4.33	50.77
HI	Honolulu	3.55	2.21	2.20	1.54	1.13	0.50	0.59	0.44	0.78	2.28	3.00	3.80	22.02
ID	Boise	1.45	1.07	1.29	1.24	1.08	0.81	0.35	0.43	0.80	0.75	1.48	1.36	12.11
IL	Chicago	1.53	1.36	2.69	3.64	3.32	3.78	3.66	4.22	3.82	2.41	2.92	2.47	35.82
	Peoria	1.51	1.42	2.91	3.77	3.70	3.99	4.20	3.10	3.87	2.65	2.69	2.44	36.25
IN	Indianapolis	2.32	2.46	3.79	3.70	4.00	3.49	4.47	3.64	2.87	2.63	3.23	3.34	39.94
IA	Des Moines	0.96	1.11	2.33	3.36	3.66	4.46	3.78	4.20	3.53	2.62	1.79	1.32	33.12
KS	Wichita	0.79	0.96	2.43	2.38	3.81	4.31	3.13	3.02	3.49	2.22	1.59	1.20	29.33
KY	Louisville	2.86	3.30	4.66	4.23	4.62	3.46	4.51	3.54	3.16	2.71	3.70	3.64	44.39
LA	New Orleans	5.05	6.01	4.90	4.50	4.56	5.84	6.12	6.17	5.51	3.05	4.42	5.75	61.88
ME	Portland	3.53	3.33	3.67	4.08	3.62	3.44	3.09	2.87	3.09	3.90	5.17	4.55	44.34
MD	Baltimore	3.05	3.12	3.38	3.09	3.72	3.67	3.69	3.92	3.41	2.98	3.32	3.41	40.76
MA	Boston	3.59	3.62	3.69	3.60	3.25	3.09	2.84	3.24	3.06	3.30	4.22	4.01	41.51
MI	Detroit	1.76	1.74	2.55	2.95	2.92	3.61	3.18	3.43	2.89	2.10	2.67	2.82	32.62
	Sault Ste. Marie	2.42	1.74	2.30	2.35	2.71	3.14	2.71	3.61	3.69	3.23	3.45	2.88	34.23
MN	Duluth	1.22	0.80	1.91	2.25	3.03	3.82	3.61	3.99	3.84	2.49	1.80	1.24	30.00
	Minneapolis-St. Paul	0.95	0.88	1.94	2.42	3.39	4.05	3.53	3.62	2.72	2.19	1.55	1.08	28.32
MS	Jackson	5.24	4.70	5.82	5.57	5.05	3.18	4.51	3.77	3.55	3.26	4.81	5.91	55.37
MO	Kansas City	1.09	1.10	2.51	3.12	5.04	4.72	4.38	4.01	4.86	3.29	1.92	1.58	37.62
	St. Louis	1.81	2.12	3.58	3.50	3.97	3.72	3.85	2.85	3.12	2.68	3.28	3.03	37.51
MT	Great Falls	0.91	0.57	1.10	1.41	2.52	2.39	1.24	1.54	1.24	0.78	0.66	0.85	15.21
NE	Omaha	0.74	0.77	2.04	2.66	4.52	3.87	3.51	3.24	3.72	2.28	1.49	1.02	29.86
NV	Reno	1.07	0.99	0.71	0.38	0.69	0.46	0.28	0.32	0.39	0.38	0.87	0.99	7.53
NH	Concord	2.51	2.53	2.72	2.91	3.14	3.15	3.23	3.32	2.81	3.23	3.66	3.16	36.37
NJ	Atlantic City	3.46	3.06	3.62	3.56	3.33	2.64	3.83	4.14	2.93	2.82	3.58	3.32	40.29
NM	Albuquerque	0.44	0.46	0.54	0.52	0.50	0.59	1.37	1.64	1.00	0.89	0.43	0.50	8.88
NY	Albany	2.36	2.27	2.93	2.99	3.41	3.62	3.18	3.47	2.95	2.83	3.23	2.93	36.17
	Buffalo	2.70	2.31	2.68	2.87	3.14	3.55	3.08	4.17	3.49	3.09	3.83	3.67	38.58
	New York ¹	3.42	3.27	4.08	4.42	4.42	3.67	4.35	4.01	3.89	3.56	4.47	3.91	47.25
NC	Charlotte	3.71	3.84	4.43	2.68	3.82	3.39	3.92	3.73	3.50	3.36	3.23	3.48	43.09
	Raleigh	3.48	3.69	3.77	2.59	3.92	3.68	4.01	4.02	3.19	2.86	2.98	3.24	41.43
ND	Bismarck	0.45	0.43	0.77	1.67	2.18	2.72	2.14	1.72	1.49	0.90	0.49	0.51	15.47
OH	Cincinnati	2.59	2.69	4.24	3.75	4.28	3.84	4.24	3.35	2.88	2.86	3.46	3.15	41.33
	Cleveland	2.04	2.19	2.91	3.14	3.49	3.70	3.52	3.40	3.44	2.54	3.17	3.09	36.63
	Columbus	2.18	2.24	3.27	3.21	3.93	4.04	4.31	3.72	2.96	2.15	3.22	2.86	38.09
OK	Oklahoma City	1.13	1.56	2.71	2.77	5.22	4.31	2.61	2.60	3.84	3.23	1.98	1.40	33.36
OR	Portland	5.35	3.85	3.56	2.39	2.06	1.48	0.63	1.09	1.75	2.67	5.34	6.13	36.30
PA	Philadelphia	3.21	2.79	3.46	3.62	3.75	3.74	4.28	3.80	3.42	2.62	3.34	3.38	41.41
	Pittsburgh	2.54	2.39	3.41	3.15	3.59	3.71	3.75	3.21	2.97	2.36	2.85	2.92	36.85
RI	Providence	3.88	3.61	4.05	4.11	3.76	3.33	3.18	3.63	3.48	3.69	4.43	4.38	45.53
SC	Columbia	4.42	4.12	4.82	3.28	3.68	4.80	5.50	6.09	3.67	3.04	2.90	3.59	49.91
SD	Sioux Falls	0.51	0.64	1.64	2.52	3.03	3.40	2.68	2.85	3.02	1.78	1.09	0.70	23.86
TN	Memphis	3.73	4.35	5.41	5.46	4.98	3.57	3.79	3.43	3.53	3.01	5.10	5.74	52.10
	Nashville	3.58	3.81	4.85	4.47	4.88	3.57	3.97	3.46	3.46	2.62	4.12	4.61	47.30
TX	Dallas-Fort Worth	1.83	2.18	2.77	3.50	4.88	2.98	2.31	2.21	3.39	3.52	2.29	1.84	33.70
	El Paso	0.40	0.41	0.29	0.20	0.25	0.67	1.54	1.58	1.70	0.76	0.44	0.57	8.81
	Houston	3.29	2.96	2.92	3.21	5.24	4.96	3.60	3.49	4.89	4.27	3.79	3.45	46.07
UT	Salt Lake City	1.11	1.23	1.91	2.12	1.80	0.93	0.81	0.86	1.28	1.44	1.29	1.40	16.18
VT	Burlington	1.82	1.63	2.23	2.76	3.12	3.47	3.65	4.06	3.30	2.88	3.13	2.42	34.47
VA	Norfolk	3.78	3.47	3.70	3.06	3.81	3.82	5.06	4.81	3.90	3.15	2.85	3.23	44.64
	Richmond	3.24	3.16	3.61	2.96	3.84	3.62	5.03	4.40	3.34	3.53	3.17	3.26	43.16
WA	Seattle-Tacoma	5.38	3.99	3.54	2.33	1.70	1.50	0.76	1.14	1.88	3.23	5.83	5.91	37.19
	Spokane	1.98	1.49	1.49	1.18	1.41	1.26	0.67	0.72	0.73	0.99	2.15	2.42	16.49
WV	Charleston	2.91	3.04	3.63	3.31	3.94	3.59	4.99	4.01	3.24	2.89	3.59	3.39	42.53
WI	Milwaukee	1.60	1.45	2.67	3.50	2.84	3.24	3.47	3.53	3.38	2.41	2.51	2.33	32.93
WY	Cheyenne	0.40	0.39	1.03	1.37	2.39	2.08	2.09	1.69	1.27	0.74	0.53	0.42	14.40
PR	San Juan	2.81	2.15	2.35	3.76	5.93	4.00	4.37	5.32	5.28	5.71	5.94	4.72	52.34

¹ City office data.

Source: U.S. National Oceanic and Atmospheric Administration, *Climatology of the United States*, No. 81.

No. 419. Average Number of Days With Precipitation of .01 Inch or More— Selected Cities

[Airport data, except as noted. For period of record through 1995, except as noted]

STATE	STATION	Length of record (yr.)	Month												Annual
			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
AL	Mobile	54	11	10	10	7	9	11	16	14	10	6	8	10	122
AK	Juneau	51	18	17	18	17	17	15	17	17	20	24	20	21	222
AZ	Phoenix	56	4	4	4	2	1	1	4	5	3	3	3	4	36
AR	Little Rock	53	10	9	10	10	10	8	8	7	7	7	8	9	105
CA	Los Angeles	60	6	6	6	3	1	1		(Z)	(Z)	1	2	3	35
	Sacramento	56	10	9	9	5	3	1		(Z)	(Z)	1	3	7	58
	San Diego	55	7	6	7	4	2	1		(Z)	(Z)	1	2	4	42
	San Francisco	68	11	10	10	6	3	1		(Z)	(Z)	1	1	4	62
CO	Denver	61	6	6	9	9	11	9	9	9	6	5	6	5	89
CT	Hartford	41	11	10	12	11	12	11	10	10	9	9	11	12	127
DE	Wilmington	48	11	9	11	11	11	10	9	9	8	8	9	10	116
DC	Washington	54	10	9	11	10	11	9	10	9	8	7	9	9	112
FL	Jacksonville	54	8	8	8	6	8	12	15	14	13	9	7	8	116
	Miami	53	7	6	6	6	10	15	16	17	17	14	9	6	130
GA	Atlanta	61	11	10	11	9	9	10	12	10	8	7	9	10	115
HI	Honolulu	46	9	9	9	9	7	6	7	6	7	9	9	10	98
ID	Boise	56	12	10	10	8	8	6	2	3	4	6	10	11	90
IL	Chicago	37	11	9	12	13	11	10	10	9	9	9	11	11	126
	Peoria	56	9	8	11	12	11	10	9	8	9	8	9	10	114
IN	Indianapolis	56	12	10	13	12	12	10	10	9	8	8	11	12	126
IA	Des Moines	56	8	7	10	11	11	11	9	9	9	8	7	8	108
KS	Wichita	42	6	5	8	8	11	9	8	8	8	6	5	6	86
KY	Louisville	48	11	11	13	12	12	10	10	8	8	8	10	11	124
LA	New Orleans	47	10	9	9	7	8	11	14	13	10	6	7	10	114
ME	Portland	55	11	10	11	12	12	11	10	9	9	9	12	12	129
MD	Baltimore	45	11	9	11	11	11	9	9	8	8	8	9	9	114
MA	Boston	44	12	11	12	11	11	11	9	10	9	9	11	12	127
MI	Detroit	37	13	11	13	13	11	10	10	10	10	10	12	14	136
	Sault Ste. Marie	54	19	15	13	11	11	11	10	11	13	14	17	19	166
MN	Duluth	54	12	10	11	11	12	13	11	11	12	10	11	12	135
	Minneapolis-St. Paul	57	9	7	10	10	11	12	10	10	10	8	8	9	115
MS	Jackson	32	11	9	10	8	9	8	10	10	8	7	8	10	109
MO	Kansas City	23	7	7	10	11	12	10	9	9	8	7	8	8	106
	St. Louis	38	9	8	11	11	11	9	9	8	8	8	9	9	111
MT	Great Falls	58	9	8	9	9	12	12	8	8	7	6	7	8	101
NE	Omaha	59	6	7	9	10	12	11	9	9	8	6	6	7	99
NV	Reno	53	6	6	6	4	4	3	2	2	2	3	5	6	51
NH	Concord	54	11	10	11	12	12	11	10	9	9	9	11	11	126
NJ	Atlantic City	52	11	10	11	11	10	9	9	9	8	7	9	10	112
NM	Albuquerque	56	4	4	5	3	5	4	9	10	6	5	3	4	61
NY	Albany	49	12	11	12	12	13	11	10	10	10	9	12	12	134
	Buffalo	52	20	17	16	14	12	10	10	10	11	12	16	19	169
	New York ¹	126	11	10	11	11	11	10	11	10	8	8	9	10	121
NC	Charlotte	56	10	10	11	9	10	10	11	10	7	7	8	10	111
	Raleigh	51	10	10	10	9	10	9	11	10	8	7	8	9	112
ND	Bismarck	56	8	7	8	8	10	11	9	8	7	6	6	8	96
OH	Cincinnati	48	12	11	13	13	12	11	10	9	8	8	11	12	130
	Cleveland	54	16	14	15	14	13	11	10	10	10	11	14	16	155
	Columbus	56	13	11	14	13	13	11	11	9	8	9	12	13	137
OK	Oklahoma City	56	6	6	7	8	10	9	6	6	7	6	5	6	83
OR	Portland	55	18	16	17	14	12	9	4	5	7	12	18	19	151
PA	Philadelphia	55	11	9	11	11	11	10	9	9	8	8	9	10	116
	Pittsburgh	43	16	14	16	14	13	12	11	10	10	10	13	16	153
RI	Providence	42	11	10	12	11	11	11	9	9	8	9	11	12	124
SC	Columbia	48	10	10	10	8	9	10	12	11	8	6	7	9	110
SD	Sioux Falls	50	6	7	9	10	11	11	10	9	8	6	6	6	98
TN	Memphis	45	10	9	11	10	10	9	9	7	7	6	9	10	107
	Nashville	54	11	11	12	11	11	9	10	9	8	7	9	11	119
TX	Dallas-Fort Worth	42	7	7	7	8	9	6	5	5	7	6	6	7	79
	El Paso	56	4	3	2	2	2	3	8	8	5	4	3	4	49
	Houston	26	11	9	9	7	9	9	9	9	9	7	8	9	106
UT	Salt Lake City	67	10	9	10	10	8	5	5	6	5	6	8	9	91
VT	Burlington	52	14	12	13	12	14	12	12	13	12	12	14	15	154
VA	Norfolk	47	11	10	11	10	10	9	11	10	8	8	8	9	115
	Richmond	58	10	9	11	9	11	9	11	10	8	7	8	9	113
WA	Seattle-Tacoma	51	18	16	17	14	10	9	5	6	9	13	18	19	154
	Spokane	48	14	11	11	9	9	8	5	5	6	7	13	15	112
WV	Charleston	48	15	14	15	14	13	11	13	11	10	10	12	14	151
WI	Milwaukee	55	11	10	12	12	11	11	10	9	9	9	11	11	125
WY	Cheyenne	60	6	6	9	10	12	11	11	10	8	6	6	6	101
PR	San Juan	40	17	13	12	13	16	15	19	18	17	17	18	19	196

Z Less than 1/2 day. ¹ City office data.

Source: U.S. National Oceanic and Atmospheric Administration, *Comparative Climatic Data*, annual.

No. 420. Snow and Ice Pellets—Selected Cities

[In inches. Airport data, except as noted. For period of record through 1995. T denotes trace]

STATE	STATION	Length of record (yr)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
AL	Mobile	54	0.1	0.1	0.1	T	T	-	T	-	-	-	T	0.1	0.4
AK	Juneau	51	26.3	19.1	15.3	3.4	-	T	-	-	T	1	12.9	22.7	100.7
AZ	Phoenix	58	T	-	T	T	T	-	-	-	-	T	-	-	T
AR	Little Rock	53	2.4	1.4	0.5	T	-	-	-	-	-	-	0.2	0.6	5.1
CA	Los Angeles	60	T	T	T	-	-	-	-	-	-	-	-	T	T
	Sacramento	47	T	-	T	-	T	-	-	-	-	-	-	T	T
	San Diego	55	T	-	T	-	-	-	-	-	-	-	T	T	T
	San Francisco	68	-	T	T	-	-	-	-	-	-	-	-	-	T
CO	Denver	61	8.1	7.5	12.5	8.9	1.6	-	T	T	1.6	3.7	9.1	7.3	60.3
CT	Hartford	41	12.3	11.8	9.8	1.5	-	T	-	-	-	0.1	2.1	10.3	47.9
DE	Wilmington	48	6.4	6.1	3.3	0.2	T	T	T	-	-	0.1	0.9	3.3	20.3
DC	Washington	52	5.3	5.2	2.1	-	T	-	T	T	-	-	0.8	3	16.4
FL	Jacksonville	54	T	-	-	-	-	-	T	-	-	-	-	-	T
	Miami	53	-	-	-	-	-	-	-	-	-	-	-	-	-
GA	Atlanta	61	0.9	0.5	0.4	T	-	-	-	-	-	T	-	0.2	2.0
HI	Honolulu	49	-	-	-	-	-	-	-	-	-	-	-	-	-
ID	Boise	56	6.6	3.6	1.6	0.6	0.1	T	T	T	-	0.1	2.3	5.8	20.7
IL	Chicago	37	10.8	8.4	6.7	1.6	0.1	T	T	T	T	0.4	1.9	8.3	38.2
	Peoria	52	6.6	5.5	4.0	0.8	-	-	T	-	T	0.1	2.0	5.8	24.8
IN	Indianapolis	64	6.3	5.8	3.3	0.5	-	T	-	T	-	0.2	1.8	5.0	22.9
IA	Des Moines	56	8.1	7.2	6.1	1.8	-	T	T	T	-	0.3	3.1	6.7	33.3
KS	Wichita	42	4.4	4.2	2.5	0.2	T	T	T	T	-	-	1.2	3.2	15.7
KY	Louisville	48	5.2	4.4	3.2	0.1	T	T	T	-	-	0.1	1	2.1	16.1
LA	New Orleans	49	-	0.1	T	T	T	-	-	-	-	-	T	0.1	0.2
ME	Portland	55	19.3	17.3	12.8	3.0	0.2	-	-	-	T	0.2	3.0	15.0	70.8
MD	Baltimore	45	5.7	6.5	3.7	0.1	T	-	T	-	-	-	1.0	3.4	20.4
MA	Boston	60	12.3	11.7	7.9	0.9	-	-	-	-	T	-	1.3	7.6	41.7
MI	Detroit	37	10.5	9.2	6.8	1.7	T	-	-	-	T	0.2	2.9	10.0	41.3
	Sault Ste. Marie	54	28.7	18.4	14.8	5.7	0.5	T	T	T	0.1	2.4	15.7	30.8	117.1
MN	Duluth	52	17.1	11.3	13.4	6.7	0.7	-	T	T	0.1	1.5	12.7	15.4	78.9
	Minneapolis-St. Paul	57	9.9	8.4	10.5	2.8	0.1	T	T	T	-	0.5	7.9	9.4	49.5
MS	Jackson	32	0.5	0.2	0.2	-	-	-	-	-	-	-	-	-	0.9
MO	Kansas City	61	5.6	4.5	3.5	0.8	T	T	T	-	T	-	1.1	4.4	19.9
	St. Louis	59	5.2	4.6	4.1	0.4	-	T	-	-	-	T	1.4	3.8	19.5
MT	Great Falls	58	9.6	8.3	10.3	7.3	1.7	0.3	T	0.1	1.5	3.4	7.5	8.4	58.4
NE	Omaha	60	7.3	6.6	6.3	1	0.1	T	T	-	T	0.3	2.6	5.6	29.8
NV	Reno	53	5.9	5.2	4.3	1.2	0.8	-	-	-	-	0.3	2.4	4.3	24.4
NH	Concord	54	17.9	14.6	11.0	2.3	0.1	T	-	-	T	0.1	3.9	13.6	63.5
NJ	Atlantic City	51	5.0	5.3	2.5	0.3	T	T	T	-	-	T	0.4	2.2	15.7
NM	Albuquerque	56	2.5	2.1	1.8	0.6	-	T	T	T	T	0.1	1.2	2.5	10.8
NY	Albany	49	16.3	14.4	11.1	2.6	0.1	T	T	T	T	0.2	4.2	14.9	63.8
	Buffalo	52	23.5	18.6	11.5	3.2	0.2	T	T	T	T	0.3	11.3	23.2	91.8
	New York	127	7.5	8.6	5.0	0.9	T	-	T	-	-	-	0.9	5.4	28.3
NC	Charlotte	56	2.0	1.6	1.2	-	T	-	-	-	-	T	0.1	0.5	5.4
	Raleigh	51	2.2	2.5	1.3	-	-	T	-	-	-	-	0.1	0.8	6.9
ND	Bismarck	56	7.4	6.8	8.4	3.8	0.9	T	T	T	0.2	1.7	6.5	7.0	42.7
OH	Cincinnati	48	7.0	5.5	4.3	0.5	-	T	T	-	-	0.3	2.0	3.8	23.4
	Cleveland	54	13.0	12.3	10.4	2.3	0.1	T	T	-	T	0.6	5.0	12.0	55.7
	Columbus	48	8.5	6.2	4.5	0.9	-	T	T	-	T	0.1	2.2	5.5	27.9
OK	Oklahoma City	56	3.0	2.4	1.5	-	T	T	-	-	T	-	0.5	1.8	9.2
OR	Portland	55	3.2	1.1	0.4	T	-	-	-	T	T	-	0.4	1.4	6.5
PA	Philadelphia	53	6.2	6.6	3.7	0.3	T	-	-	-	-	-	0.7	3.3	20.8
	Pittsburgh	43	11.6	9.3	8.7	1.7	0.1	T	T	T	T	0.4	3.5	8.2	43.5
RI	Providence	42	9.5	10.0	7.5	0.7	0.2	-	-	-	-	0.1	1.1	6.8	35.9
SC	Columbia	48	0.4	0.8	0.2	T	-	-	-	T	-	-	T	0.3	1.7
SD	Sioux Falls	50	6.5	8.1	9.4	2.7	-	-	T	T	-	-	0.8	5.5	7.1
TN	Memphis	45	2.2	1.4	0.8	T	T	T	-	-	-	-	T	0.1	0.6
	Nashville	54	3.7	3.0	1.4	-	-	-	T	-	T	-	0.4	1.4	9.9
TX	Dallas-Fort Worth	42	1.1	0.9	0.2	T	T	-	-	-	-	T	0.1	0.2	2.5
	El Paso	56	1.3	0.8	0.4	0.3	T	T	T	-	-	T	-	0.9	1.6
	Houston	61	0.2	0.2	-	T	T	T	-	-	-	-	T	-	0.4
UT	Salt Lake City	67	13.4	9.5	9.3	4.9	0.6	T	-	T	T	0.1	1.2	6.9	11.8
VT	Burlington	52	19.0	17.0	12.7	3.9	0.2	-	T	-	-	0.2	6.6	18.4	78.0
VA	Norfolk	47	2.7	2.8	1.0	-	T	-	-	T	-	-	-	0.9	7.4
	Richmond	58	4.8	4.0	2.4	0.1	T	-	-	-	-	T	0.4	2.0	13.7
WA	Seattle-Tacoma	51	4.8	1.6	1.3	0.1	T	-	-	-	T	-	1.1	2.4	11.3
	Spokane	48	15.6	7.6	3.9	0.6	0.1	T	-	-	-	0.4	6.4	14.9	49.5
WV	Charleston	48	10.6	8.6	5.1	0.9	-	T	T	T	T	0.2	2.4	5.3	33.1
WI	Milwaukee	55	13.1	10.0	8.6	1.7	0.1	T	T	T	T	0.2	3.2	10.3	47.2
WY	Cheyenne	60	6.5	6.4	11.9	9.0	3.3	0.2	-	-	0.9	3.7	7.3	6.2	55.4
PR	San Juan	40	-	-	-	-	-	-	-	-	-	-	-	-	-

- Represents zero or rounds to zero. ¹ City office data.

Source: U.S. National Oceanic and Atmospheric Administration, *Comparative Climatic Data*, annual.

No. 421. Sunshine, Average Wind Speed, Heating and Cooling Degree Days, and Average Relative Humidity—Selected Cities

[Airport data, except as noted. For period of record through 1995, except as noted. M=morning, A=afternoon]

STATE	STATION	AVERAGE PERCENTAGE OF POSSIBLE SUNSHINE ¹		AVERAGE WIND SPEED (m.p.h.)				Heating degree days	Cooling degree days	AVERAGE RELATIVE HUMIDITY (percent)						
		Length of record (yr.)	Annual	Length of record (yr.)	Annual	Jan.	July			Length of record (yr.)	Annual		Jan.		July	
											Length of record (yr.)	Mean number (days)	M	A	M	A
AL	Mobile	46	60	47	8.9	10.2	6.9	1,702	2,627	33	87	57	82	61	90	61
AK	Juneau	44	23	50	8.3	8.1	7.5	8,897	-	29	84	73	82	78	83	70
AZ	Phoenix	57	81	50	6.2	5.3	7.1	1,350	4,162	35	51	23	67	33	44	20
AR	Little Rock	35	60	53	7.8	8.4	6.7	3,155	2,005	35	84	57	80	62	88	56
CA	Los Angeles	59	72	47	7.5	6.7	7.9	1,458	727	36	79	65	70	60	86	68
	Sacramento	46	72	45	7.9	7.2	8.9	2,749	1,237	34	83	46	90	70	77	29
	San Diego	54	72	55	7.0	6.0	7.5	1,256	984	35	77	62	71	57	82	66
	San Francisco	67	71	68	10.6	7.2	13.6	3,016	145	36	84	62	86	67	86	59
CO	Denver	60	67	47	8.6	8.6	8.3	6,020	679	35	68	40	64	49	69	34
CT	Hartford	40	52	41	8.4	9.0	7.3	6,151	677	36	77	52	71	56	79	51
DE	Wilmington	47	55	47	9.0	9.8	7.8	4,937	1,046	48	78	55	75	60	80	54
DC	Washington	46	55	47	9.4	10.0	8.3	4,047	1,549	35	75	53	70	55	77	53
FL	Jacksonville	46	61	46	7.9	8.1	7.0	1,434	2,551	59	88	56	87	58	88	58
	Miami	45	68	46	9.2	9.5	7.9	200	4,198	31	84	61	84	59	84	63
GA	Atlanta	60	59	57	9.1	10.4	7.7	2,991	1,667	35	82	56	79	59	88	59
HI	Honolulu	45	74	46	11.3	9.5	13.1	-	4,474	26	72	55	81	61	67	51
ID	Boise	55	58	56	8.7	8.0	8.4	5,861	754	56	69	43	81	71	54	22
IL	Chicago	36	52	37	10.4	11.7	8.4	6,536	752	37	80	60	77	68	82	57
	Peoria	51	53	52	10.0	11.1	7.8	6,148	982	36	83	62	79	69	87	59
IN	Indianapolis	63	51	47	9.6	10.9	7.5	5,615	1,014	36	84	62	81	70	87	60
IA	Des Moines	45	55	46	10.7	11.5	8.9	6,497	1,036	34	80	60	76	68	83	58
KS	Wichita	39	62	42	12.2	12.0	11.3	4,791	1,628	42	80	56	79	63	79	49
KY	Louisville	47	53	48	8.3	9.5	6.8	4,514	1,288	35	81	59	77	64	85	58
LA	New Orleans	46	60	47	8.1	9.3	6.1	1,513	2,655	47	88	63	85	66	91	66
ME	Portland	54	55	55	8.7	9.1	7.6	7,378	268	55	79	59	76	61	80	59
MD	Baltimore	44	58	45	9.1	9.7	7.9	4,707	1,137	42	77	54	72	57	80	53
MA	Boston	59	55	38	12.5	13.8	11.0	5,641	678	31	72	58	68	57	74	56
MI	Detroit	36	49	37	10.4	12.0	8.5	6,569	626	37	81	60	80	69	82	54
	Sault Ste. Marie	53	43	54	9.2	9.7	7.8	9,316	131	54	85	67	81	74	89	62
MN	Duluth	46	49	46	11.0	11.6	9.4	9,818	180	34	81	63	77	70	85	59
	Minneapolis-St. Paul	56	54	57	10.5	10.5	9.4	7,981	682	36	79	60	75	67	81	55
MS	Jackson	30	59	32	7.3	8.4	5.8	2,467	2,215	32	91	58	87	65	94	59
MO	Kansas City	22	59	23	10.7	11.3	9.4	5,393	1,288	23	81	60	77	64	85	58
	St. Louis	46	55	46	9.7	10.6	8.0	4,758	1,534	35	83	59	81	66	84	56
MT	Great Falls	57	51	54	12.6	15.1	10.0	7,741	388	34	67	45	67	61	67	31
NE	Omaha	49	59	59	10.5	10.9	8.8	6,300	1,072	31	82	59	78	66	85	58
NV	Reno	52	69	53	6.6	5.6	7.2	5,674	508	32	70	31	79	50	62	18
NH	Concord	53	55	53	6.7	7.3	5.7	7,554	328	30	81	54	76	59	84	51
NJ	Atlantic City	36	56	37	9.9	10.9	8.3	5,169	826	31	82	57	78	58	84	58
NM	Albuquerque	55	76	56	8.9	8.0	8.9	4,425	1,244	35	60	29	70	40	59	27
NY	Albany	46	49	57	8.9	9.8	7.5	6,894	507	30	80	57	77	63	81	55
	Buffalo	51	43	56	11.9	14.1	10.3	6,747	477	35	80	62	79	72	78	55
	New York ²	42	58	58	9.4	10.7	7.6	4,805	1,096	61	72	56	68	60	75	55
NC	Charlotte	46	58	46	7.4	7.8	6.6	3,341	1,582	35	82	53	78	56	86	56
	Raleigh	46	59	46	7.7	8.5	6.7	3,457	1,417	31	85	54	79	55	89	58
ND	Bismarck	55	55	56	10.2	10.0	9.2	8,968	488	36	81	57	75	69	84	48
OH	Cincinnati	43	49	48	9.0	10.6	7.2	5,248	996	33	82	60	79	68	85	57
	Cleveland	53	45	54	10.5	12.2	8.6	6,201	621	35	79	62	78	67	81	57
	Columbus	45	48	46	8.3	9.8	6.5	5,708	797	36	80	55	77	68	84	56
OK	Oklahoma City	44	64	47	12.3	12.6	10.9	3,659	1,859	30	80	59	78	59	80	50
OR	Portland	46	39	47	7.9	10.0	7.6	4,522	371	55	86	59	85	75	82	45
PA	Philadelphia	54	56	55	9.5	10.3	8.2	4,954	1,101	36	76	54	73	59	79	54
	Pittsburgh	42	44	43	9.1	10.6	7.3	5,968	654	35	79	57	76	66	82	54
RI	Providence	41	55	42	10.5	11.1	9.4	5,884	606	32	75	55	71	56	77	56
SC	Columbia	47	60	47	6.8	7.2	6.3	2,649	1,966	29	87	51	82	54	89	54
SD	Sioux Falls	49	57	47	11.1	11.0	9.8	7,809	744	32	82	60	77	69	83	54
TN	Memphis	42	59	47	8.8	10.0	7.5	3,082	2,118	56	81	57	79	63	85	57
	Nashville	53	57	54	8.0	9.1	6.5	3,729	1,616	30	84	57	80	63	89	57
TX	Dallas-Fort Worth	41	64	42	10.7	10.9	9.8	2,407	2,603	32	82	56	80	61	81	49
	El Paso	52	80	53	8.8	8.3	8.3	2,708	2,094	35	57	28	66	65	62	29
	Houston	25	56	26	7.9	8.3	7.1	1,599	2,700	26	90	60	86	34	93	57
UT	Salt Lake City	66	62	66	8.8	7.5	9.5	5,765	1,047	36	68	43	79	69	52	22
VT	Burlington	51	44	52	9.0	9.8	8.0	7,771	388	30	77	59	72	64	79	53
VA	Norfolk	46	58	47	10.6	11.5	8.9	3,495	1,422	47	78	57	74	59	81	59
	Richmond	49	56	47	7.7	8.1	6.9	3,963	1,348	61	83	53	80	57	85	56
WA	Seattle-Tacoma ³	50	38	47	9.0	9.6	8.3	4,908	190	36	83	62	81	74	82	49
	Spokane	47	48	48	8.9	8.8	8.6	6,842	398	36	78	52	86	79	65	28
WI	Charleston	47	48	48	6.1	7.3	4.9	4,646	1,031	48	83	56	78	63	90	59
WV	Milwaukee	54	52	55	11.5	12.6	9.7	7,324	479	35	80	64	76	68	82	61
WY	Cheyenne	59	64	38	12.9	15.3	10.4	7,326	285	36	65	44	58	50	70	38
PR	San Juan	39	76	40	8.4	8.5	9.7	-	5,558	40	79	65	82	64	79	67

- Represents zero. ¹ Percent of days that are either clear or partly cloudy. ² Airport data for sunshine. ³ Does not represent airport data.

Source: U.S. National Oceanic and Atmospheric Administration, *Comparative Climatic Data*, annual.