



Improving Crime Data

Table 1: Homicide Rankings of 67 Major Cities¹

2002-2003 (by Standard Scores and Residual Scores)

May 17, 2004 (revised: May 25, 2004); 2003 data posted June 3, 2004²

<i>City (2002)</i>	<i>2002 Homicide Rate</i>	<i>2002 Standard Score (Rank)</i>	<i>2002 Standardized Residual (Rank)</i>	<i>City (2003)</i>	<i>2003 Homicide Rate</i>	<i>2003 Standard Score (Rank)</i>	<i>2003 Standardized Residual (Rank)</i>
New Orleans (LA)	53.07	3.77 (01)	1.32 (5)	New Orleans (LA)	56.36	4.07 (01)	1.55 (04)
Washington, DC	46.24	3.13 (02)	2.06 (2)	Washington, DC*	43.44	2.84 (02)	1.99 (02)
Detroit (MI)	41.79	2.71 (03)	-0.32 (49)	Baltimore (MD)	40.24	2.54 (03)	1.27 (09)
Baltimore (MD)	37.70	2.32 (04)	1.03 (6)	Detroit (MI)	38.05	2.33 (04)	-0.39 (48)
Atlanta (GA)	34.90	2.06 (05)	-0.03 (38)	Atlanta (GA)	34.21	1.97 (05)	-0.10 (40)
Saint Louis (MO)	31.44	1.73 (06)	0.33 (25)	Newark (NJ)	29.00	1.47 (06)	-0.17 (43)
Oakland (CA)	26.08	1.22 (07)	1.72 (3)	Oakland (CA)	26.32	1.22 (07)	1.74 (03)
Newark (NJ)	23.28	0.96 (08)	-.059 (56)	Philadelphia (PA)	22.83	0.89 (08)	0.73 (14)
Memphis (TN)	22.79	0.91 (09)	0.07 (34)	Cincinnati (OH)	21.30	0.74 (09)	0.05 (33)
Chicago (IL)	22.05	0.84 (10)	0.51 (17)	Saint Louis (MO)	20.86	0.68 (10)	-0.62 (51)
Cincinnati (OH)	19.20	0.58 (11)	-0.11 (43)	Chicago (IL)	20.35	0.65 (11)	0.41 (23)
Philadelphia (PA)	18.89	0.55 (12)	0.22 (27)	Buffalo (NY)	19.97	0.62 (12)	-0.06 (36)

<i>City (2002)</i>	<i>2002 Homicide Rate</i>	<i>2002 Standard Score (Rank)</i>	<i>2002 Standardized Residual (Rank)</i>	<i>City (2003)</i>	<i>2003 Homicide Rate</i>	<i>2003 Standard Score (Rank)</i>	<i>2003 Standardized Residual (Rank)</i>
Kansas City (MO)	18.54	0.51 (13)	1.38 (4)	Pittsburgh (PA)	19.85	0.61 (13)	1.52 (05)
Milwaukee (WI)	18.33	0.49 (14)	-0.12 (45)	Miami (FL)	19.52	0.57 (14)	-0.09 (39)
Miami (FL)	17.15	0.38 (15)	-0.32 (51)	Memphis (TN)	19.02	0.53 (15)	-0.33 (46)
Los Angeles (CA)	17.07	0.37 (16)	0.35 (24)	Kansas City (MO)	18.32	0.46 (16)	1.34 (07)
Cleveland (OH)	16.62	0.33 (17)	-1.57 (64)	Dallas (TX)	18.20	0.45 (17)	0.62 (19)
Dallas (TX)	15.79	0.25 (18)	0.35 (23)	Milwaukee (WI)	18.00	0.43 (18)	-0.19 (44)
Buffalo (NY)	14.55	0.14 (19)	-0.70 (57)	Phoenix (AZ)	17.15	0.35 (19)	1.39 (06)
Long Beach (CA)	14.00	0.08 (20)	-0.02 (37)	Louisville (KY)	16.19	0.26 (20)	0.08 (31)
Indianapolis (IN)	13.93	0.08 (21)	0.94 (8)	Tulsa (OK)	15.33	0.18 (21)	1.34 (08)
Pittsburgh (PA)	13.72	0.06 (22)	0.73 (12)	Columbus (OH)	15.23	0.17 (22)	0.75 (13)
Louisville (KY)	13.49	0.04 (23)	-0.26 (48)	Cleveland (OH)	15.17	0.16 (23)	-1.80 (65)
Phoenix (AZ)	12.60	-0.05 (24)	0.73 (11)	Houston (TX)	13.62	0.02 (24)	-0.08 (37)
Houston (TX)	12.55	-0.05 (25)	-0.23 (47)	Los Angeles (CA)	13.42	0.00 (25)	-0.16 (42)
Minneapolis (MN)	12.04	-0.10 (26)	0.86 (10)	Tampa (FL)	12.92	-0.05 (26)	0.06 (32)
Las Vegas (NV)	11.88	-0.12 (27)	0.42 (19)	Nashville (TN)	12.84	-0.06 (27)	0.68 (17)
Jacksonville (FL)	11.70	-0.13 (28)	0.62 (14)	Las Vegas (NV)	12.48	-0.09 (28)	0.44 (21)
Tampa (FL)	11.66	-0.14 (29)	-0.08 (40)	Jacksonville (FL)	11.96	-0.14 (29)	0.64 (18)
Columbus (OH)	11.32	-0.17 (30)	0.17 (31)	Minneapolis (MN)	11.78	-0.16 (30)	0.71 (15)
Albuquerque (NM)	11.15	-0.18 (31)	0.94 (9)	Albuquerque (NM)	11.15	-0.22 (31)	0.87 (11)

<i>City (2002)</i>	<i>2002 Homicide Rate</i>	<i>2002 Standard Score (Rank)</i>	<i>2002 Standardized Residual (Rank)</i>	<i>City (2003)</i>	<i>2003 Homicide Rate</i>	<i>2003 Standard Score (Rank)</i>	<i>2003 Standardized Residual (Rank)</i>
Sacramento (CA)	11.14	-0.19 (32)	0.01 (36)	Denver (CO)	10.84	-0.25 (32)	0.60 (20)
Nashville (TN)	10.88	-0.21 (33)	0.39 (22)	Long Beach (CA)	10.24	-0.31 (33)	-0.85 (55)
Charlotte (NC)	10.36	-0.26 (34)	1.00 (7)	Fort Worth (TX)	10.21	-0.31 (34)	0.14 (29)
Boston (MA)	10.06	-0.29 (35)	-0.11 (44)	Charlotte (NC)	10.20	-0.31 (35)	0.86 (12)
Fort Worth (TX)	9.49	-0.34 (36)	0.09 (33)	Sacramento (CA)	10.19	-0.31 (36)	-0.29 (45)
Fresno (CA)	9.47	-0.34 (37)	-1.03 (59)	Indianapolis (IN)*	9.83	-0.34 (37)	0.13 (30)
Tucson (AZ)	9.08	-0.38 (38)	-0.10 (42)	Oklahoma City (OK)	9.56	-0.37 (38)	0.14 (28)
Toledo (OH)	8.87	-0.40 (39)	-0.38 (53)	Tucson (AZ)	9.47	-0.38 (39)	-0.13 (41)
Denver (CO)	8.78	-0.41 (40)	0.24 (26)	Riverside (CA)	9.07	-0.42 (40)	0.68 (16)
San Francisco (CA)	8.44	-0.44 (41)	2.08 (1)	Omaha (NB)	8.88	-0.43 (41)	1.18 (10)
San Antonio (TX)	8.36	-0.45 (42)	-0.32 (50)	San Francisco (CA)	8.57	-0.46 (42)	2.07 (01)
Riverside (CA)	7.56	-0.52 (43)	0.43 (18)	Fresno (CA)	8.35	-0.48 (43)	-1.48 (61)
Oklahoma City (OK)	7.42	-0.54 (44)	-0.32 (52)	New York (NY)	7.38	-0.58 (44)	-1.55 (63)
New York (NY)	7.26	-0.55 (45)	-1.65 (65)	Corpus Christi (TX)	7.25	-0.59 (45)	-0.09 (38)
Anchorage (AK)	6.73	-0.60 (46)	0.71 (13)	San Antonio (TX)	7.11	-0.60 (46)	-0.74 (52)
Raleigh (NC)	6.66	-0.61 (47)	0.39 (21)	Saint Paul (MN)	6.83	-0.63 (47)	-0.03 (35)
Colorado Springs (CO)	6.61	-0.61 (48)	0.61 (16)	Lexington (KY)	6.82	-0.63 (48)	0.32 (26)
Omaha (NB)	6.60	-0.61 (49)	0.61 (15)	Toledo (OH)	6.66	-0.64 (49)	-1.12 (57)
Santa Ana (CA)	6.56	-0.62 (50)	0.40 (20)	Boston (MA)	6.54	-0.66 (50)	-1.22 (58)
Corpus Christi (TX)	6.56	-0.62 (51)	-0.17 (46)	Anchorage (AK)	6.36	-0.67 (51)	0.40 (25)

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Tulsa (OK)	6.53	-0.62 (52)	-0.45 (54)	Aurora (CO)	6.22	-0.69 (52)	-0.02 (34)
Wichita (KS)	5.75	-0.69 (53)	0.01 (35)	Seattle (WA)	5.86	-0.72 (53)	0.42 (22)
Lexington (KY)	5.69	-0.70 (54)	0.12 (32)	Virginia Beach (VA)	5.48	-0.76 (54)	0.40 (24)
Aurora (CO)	5.53	-0.72 (55)	-0.08 (41)	Wichita (KS)	5.18	-0.79 (55)	-0.38 (47)
Mesa (AZ)	5.22	-0.74 (56)	0.20 (29)	San Diego (CA)	5.12	-0.79 (56)	-0.79 (53)
Anaheim (CA)	5.00	-0.76 (57)	0.18 (30)	Portland (OR)	4.96	-0.81 (57)	-0.83 (54)
Seattle (WA)	4.48	-0.81 (58)	-0.03 (39)	Raleigh (NC)	4.91	-0.81 (58)	-0.53 (50)
Saint Paul (MN)	4.44	-0.82 (59)	-0.79 (58)	Santa Ana (CA)	4.85	-0.82 (59)	-0.50 (49)
Arlington (TX)	4.03	-0.86 (60)	-0.47 (55)	Austin (TX)	3.94	-0.90 (60)	-1.45 (60)
San Diego (CA)	3.71	-0.89 (61)	-1.36 (63)	El Paso (TX)	3.57	-0.94 (61)	-2.43 (67)
Portland (OR)	3.67	-0.89 (62)	-1.33 (61)	Mesa (AZ)	3.32	-0.96 (62)	-1.04 (56)
Austin (TX)	3.65	-0.89 (63)	-1.36 (62)	Colorado Springs (CO)	3.17	-0.97 (63)	-1.23 (59)
San Jose (CA)	2.80	-0.97 (64)	0.22 (28)	San Jose (CA)	3.13	-0.98 (64)	0.31 (27)
El Paso (TX)	2.38	-1.01 (65)	-3.11 (66)	Anaheim (CA)	2.65	-1.02 (65)	-1.49 (62)
Honolulu (HI)	2.00	-1.05 (66)	-1.15 (60)	Arlington (TX)	2.59	-1.03 (66)	-1.73 (64)
Virginia Beach (VA)	0.68	-1.17 (67)	-3.92 (67)	Honolulu (HI)	1.67	-1.12 (67)	-1.92 (66)

¹Cities are ranked by raw homicide rate (number of homicides per 100,000) followed by the standardized score of the raw ranking. The standardized residual scores are the residuals in standard-score form from the regression equation applied to the 2003 homicide rates. The adjusted rankings are in parentheses.

²Data obtained from the FBI Uniform Crime Report 2003 Preliminary Report, May 24, 2004

* Washington D.C. and Indianapolis IN homicide data for 2003 obtained from the respective police departments