

urveys in general, and salary surveys in particular, lend support to Mark Twain's observation that "there are lies, damn lies, and statistics." In other words, when dealing with large sets of respondents broken down into numerous categories and subcategories, the granularity is such that you can make the numbers say pretty much anything you want.

So, this year we're going to say less and let you do your own interpreting of the data. We will, however, note that certain general trends keep coming up as we look at these numbers year after year:

- Gender disparities. There still appears to be a difference between what men and women get paid. However, the issue may be related to industry or title, rather than sex. In other words, there may be more women working in lower-paying positions or industries than men, but getting the same pay.
- **Regional differences**. Want to make more money? Pick a coast, either coast, and move there: That's where quality professionals earn the most.
- The advantage of education. It's no surprise that those with doctorate degrees earn nearly twice that of those with GEDs or high-school educations.

The last point regarding education is an important one. Quite simply, we need more and better-prepared quality professionals to emerge from the ranks of academia. Industry professionals with whom we've spoken, particularly within metrology, have decried the lack of young people entering the field. To be

sure, institutions such as North Carolina State, Georgia Tech, Arizona State University, California State University at Dominguez Hills, Cerritos College, and others offer programs in quality principles, including Six Sigma and the measurement sciences. However, the number of graduates entering our industry from these programs represents a mere drop in bucket compared to those who become accountants, lawyers, and general corporate managers. Might sala-

Figure 1: Breakdown by Sector							
Manufacturing	70%						
Service	13%						
Health care	6%						
Consulting	5%						
Government							
(nonmilitary)	3%						
Education	2%						
Military	1%						

Figure 2: Breakdown by	y Job Title
Managers	34%
Technical	26%
(specialist, engineer,	
technician, analyst)	
Executives	15%
Supervisors	4%
Other	21%

ries be part of the problem? We're not sure, but this is an issue that we'll continue to discuss both in the magazine and online at www.qualitydigest.com during the coming months.

Overall, this year's survey indicates that salaries are flat or even down in some regions of the United States, which surely is a symptom of the generally worsening economic picture for the nation as a whole. In figure 9 on page 39, you'll note salaries by region for all respondents. When comparing those data to the same chart from last year's survey, we find that female respondents in the Northeast earn 4.8 percent more than last year, while their male counterparts in the region earn 2.0 percent more; in the North Central region, women show a decrease of 0.2 percent, and men an increase of 5.0 percent; in the Southeast, women are up 5.0 percent, and

men are down 1.2 percent; finally, in the West, women are down 0.9 percent, and men are up 2.1 percent.

What's it all mean? Simply that salary increases have cooled along with the rest of the economy. U.S. companies are feeling the pinch of higher gas prices, a bad balance of trade, and the lingering effects of credit and housing crises. The survey reflects that quality professionals are feeling the pain along with

Figure 4: Distribution of Six Sigma Belts

27 percent of our respondents hold one or more Six Sigma Belts. Among those, the distribution is as follows:

Green Belt	48%
Black Belt	39%
Master Black Belt	10%
Other	9%

Figure 5: Distribution of ASQ Certifications

45 percent of our respondents hold one or more ASQ certificates. Among those respondents that do hold ASQ certificates, the distribution is as follows:

Quality Auditor	46%
Quality Engineer	29%
Quality Manager	22%
Six Sigma Black Belt	15%
Quality Technician	11%
Mechanical Inspector	8%
Quality improvement Associate	5%
Certified Calibration	
Technician	3%
Reliability Engineer	3%
Software Quality Engineer	2%
Quality Auditor-Biomedical	2%
Quality Auditor-HACCP	2%
Other	17%

Figure 3: Salary by Region for Executives and Managers										
Western		Sout		North Central			eastern		erall	
Age	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
<30	\$26,0001	\$70,667 ³	\$68,6333	\$62,6205	\$92,90911	\$55,000 ²	\$85,0001	\$43,300 ³	\$83,681 16	\$58,84613
30–39	\$83,930 39	\$64,533 21	\$80,979 48	\$67,520 ¹⁵	\$77,284 ⁷⁰	\$61,457 ¹⁴	\$84,772 25	\$73,318 ¹⁷	\$80,711 182	\$66,78867
40–49	\$90,37876	\$77,908 37	\$80,397 110	\$83,056 42	\$85,774 147	\$79,074 58	\$101,11775	\$85,99039	\$88,002 408	\$81,312176
50–59	\$97,15264	\$93,281 42	\$91,391 114	\$84,535 31	\$86,915 137	\$73,989 41	\$91,89888	\$78,348 ³⁴	\$90,895 403	\$82,674 148
>59	\$106,603 25	\$91,6254	\$96,081 39	\$76,0003	\$83,406 57	\$86,0002	\$95,905 39	\$97,4005	\$93,167 160	\$89,536 14
Years at	company									
<3	\$90,000 61	\$97,295 26	\$83,329 62	\$82,91524	\$80,394 82	\$108,55016	\$97,502 48	\$82,004 23	\$86,675 253	\$91,48989
3–5	\$953,587 41	\$77,534 18	\$81,65571	\$68,323 22	\$86,776 78	\$66,467 21	\$89,892 40	\$77,573 15	\$87,267 ²³⁰	\$71,81776
6-10	\$92,742 43	\$76,879 24	\$87,742 64	\$86,509 20	\$78,369 91	\$68,042 40	\$108,235 41	\$73,702 24	\$88,588 ²³⁹	\$74,683108
11–15	\$90,700 31	\$93,791 12	\$84,844 68	\$74,239 ²⁵	\$82,478 97	\$64,858 22	\$95,696 57	\$85,376 13	\$86,769271	\$75,71476
16-20	\$104,1258	\$76,356°	\$93,734 30	\$77,8336	\$93,959 29	\$76,444°	\$85,926 21	\$77,456 ⁷	\$92,89088	\$76,91631
>20	\$91,250 22	\$81,557 14	\$96,253 42	\$79,11714	\$92,331 86	\$70,922 16	\$90,965 47	\$91,463 15	\$92,720197	\$80,61259
Years of	experience									
<1	\$26,0001	NA	\$35,0001	\$56,0001	\$65,750 ²	NA	NA	NA	\$48,1254	\$56,000 ¹
1–2	\$52,0001	\$73,3004	\$103,5004	\$40,0001	\$53,960 ⁷	\$38,500 2	\$86,2504	\$91,0004	\$74,29516	\$70,38211
3–5	\$66,697 12	\$59,1676	\$61,420 15	\$67,8336	\$99,41315	\$50,500 10	\$65,4739	\$72,929 ⁷	\$74,552 51	\$61,29329
6–10	\$77,057 25	\$69,32519	\$72,765 42	\$66,207 22	\$77,632 57	\$57, 269 ²⁴	\$82,555 22	\$74,236 ²⁵	\$76,875146	\$66,71290
11–15	\$88,649 38	\$70,77823	\$81,519 55	\$82,867 23	\$78,83074	\$102,926 19	\$94,11234	\$75,991 18	\$84,007201	\$82,61883
16-20	\$101,69531	\$94,42619	\$82,412 49	\$83,165 17	\$88,220 89	\$80,813 32	\$91,740 41	\$83,292 17	\$89,541210	\$84,82285
>20	\$100,936 98	\$95,34633	\$95,017 151	\$89,377 28	\$85,941 180	\$73,739 32	\$99,643 117	\$92,635 28	\$94,079546	\$87,623121
Employe	es supervised									
0	\$77,030 22	\$76,830 23	\$79,065 34	\$79,500 15	\$81,342 48	\$61,174 15	\$85,870 22	\$78,359 20	\$80,765 126	\$74,58173
1–5	\$82,086 81	\$75,662 ⁵¹	\$81,753 131	\$69,830 43	\$77,776 202	\$62,281 56	\$95,340 104	\$80,837 52	\$82,982 518	\$72,043202
6–10	\$101,64339	\$88,389 18	\$89,469 56	\$89,576 14	\$89,631 67	\$103,51225	\$94,270 42	\$75,261 14	\$92,838 204	\$91,35971
11–20	\$100,631 31	\$82,5569	\$88,882 46	\$87,3996	\$92,811 53	\$81,800 12	\$92,606 31	\$108,2005	\$93,155 161	\$87,18732
21–50	\$102,717 20	\$119,8005	\$85,356 29	\$90,933 12	\$92,981 30	\$8,444 9	\$108,465 17	\$85,6805	\$95,448 96	\$92,85831
50-100	\$101,5789	\$175,2001	\$82,096 14	\$86,0006	\$94,107 14	\$63,7502	\$90,151 11	\$80,5004	\$91,098 48	\$87,74613
>100	\$151,429 ⁷	NA	\$156,222°	\$85,0003	\$126,354 12	\$88,0001	\$87,5504	NA	\$135,389 32	\$85,7504

Note: Numbers in superscript represent the number of respondents. "Executive" refers to those with titles of president, CEO, vice president, or director. "Manager" refers to those with titles of manager or supervisor.

NAICS code*	Industry	Manager	Engineer	Director	Supervisor	Coordinator	Specialist	ISO coordinator
21	Mining	\$94,160 10	\$60,000 ¹	\$57,500 ¹	NA	\$52,100 ²	\$180,000 1	NA
22	Utilities	\$85,000 7	NA	\$142,200 1	\$91,667 ³	NA	NA	NA
23	Construction	\$90,100 12	\$107,528 4	\$101,250 4	\$39,140 ²	NA	\$89,000 1	NA
31-33	Manufacturing	\$75,976268	\$75,335162	\$106,01080	\$56,82338	\$48,37538	\$61,324 35	\$48,69232
311	Food manufacturing	\$75,957 26	NA	\$102,40911	\$54,000 ²	\$30,000 1	\$72,750 4	\$90,000 1
322	Paper manufacturing	\$143,940 10	\$59,300 ¹	\$116,000 2	\$64,000 2	\$57,500 ¹	NA	\$52,000 ¹
323	Printing and related support activities	\$69,438 12	\$66,800 1	\$77,620 5	\$49,000 1	NA	\$38,150 4	\$51,333 ³
324	Petroleum and coal products manufacturing	\$76,813 ³	\$67,333 ³	NA	\$93,000 2	\$70,200 ¹	\$100,000 1	\$110,000 1
325	Chemical manufacturing	\$84,051 43	\$72,979 ⁷	\$117,88816	\$77,750 4	\$48,575 4	\$66,618 8	\$49,500 2
326	Plastics and rubber products manufacturing	\$69,667 73	\$67,20130	\$90,20213	\$82,36913	\$38,917 6	\$70,750 8	\$36,000 4
331	Primary metal manufacturing	\$76,482 26	\$68,79513	\$112,571 ⁷	\$85,567 3	\$57,833 ³	\$66,375 2	\$52,125 4
332	Fabricated metal product manufacturing	\$81,276 99	\$62,02726	\$98,95314	\$54,250 ⁷	\$49,689 ⁹	\$65,857 7	\$50,09910
333	Machinery manufacturing	\$75,846 28	\$74,867 6	\$101,700 4	\$49,065 4	\$43,750 ²	\$62,395 4	\$55,000 1
334	Computer and electronic product manufacturing	\$86,140 44	\$82,41836	\$107,96015	NA	\$62,333 ³	\$61,166 8	\$67,250 4
335	Electrical equipment, appliance,	\$81,005 51	\$76,925335	\$104,43610	\$58,750 4	\$42,913 ³	\$50,600 ³	\$57,667 ³
	and component manufacturing							
336	Transportation equipment manufacturing	\$85,858 31	\$75,50027	\$97,375 8	\$70,430 6	\$37,333 3	\$67,333 3	\$81,000 1
339	Miscellaneous manufacturing	\$83,402 54	\$75,58523	\$103,91511	\$64,667 6	\$59,000 ²	\$66,436 11	\$41,652 1
42	Wholesale trade	\$61,951 10	NA	\$72,500 ²	\$68,000 1	NA	\$48,250 2	\$31,507 1
44-45	Retail trade	\$74,000 11	\$120,000 ¹	\$83,250 4	\$25,000 1	NA	\$42,000 1	\$48,000 1
48	Transportation	\$72,300 6	\$70,333 ³	\$92,79010	\$80,000 1	\$45,050 4	NA	\$43,000 1
51	Information	\$78,694 16	\$56,900 5	\$108,622 9	\$60,000 2	NA	\$64,200 5	\$83,700 1
52-525	Finance and insurance, banking, credit, bonds	\$93,400 10	\$94,500 ²	\$117,000 2	\$48,000 1	\$53,800 ¹	\$67,150 10	NA
54	Professional, scientific, and technical services	\$81,400 46	\$72,400 5	\$105,64919	\$61,717 2	\$58,540 ²	\$155,518 5	\$94,250 4
61	Educational services	\$76,333 9	\$68,000 1	\$59,667 3	NA	\$56,1673	\$36,000 1	NA
62-624	Health care and social assistance, hospitals, residential care	\$83,223 34	\$72,000 4	\$104,28640	\$65,250 4	\$55,067 6	\$60,393 14	NA
81	Other services (except public administration)	\$68,107 25	\$67,667 ³	\$84,444 9	\$42,600 5	\$52,667 ³	\$66,000 2	\$43,000 1
92-928	Public administration	\$92,302 13	\$82,82718	\$112,048 4	\$80,000 2	\$44,667 ³	\$91,389 9	\$82,009 2

Note: Numbers in superscript represent the number of respondents. *North American Industry Classification System

Figure 7: Salary By Title, Region, Gender, and ≥32-Hour Week

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Title	West	Western		Southern		North Central		Northeastern	
Tille	Male	Female	Male	Female	Male	Female	Male	Female	
President/CEO	\$119,625 8	NA	\$105,000 6	\$101,000 2	\$128,643 14	NA	\$114,750 8	\$70,000 1	
Vice president	\$160,30813	\$178,333 6	\$136,901 19	\$114,940 6	\$102,673 16	\$74,833 ³	\$130,29213	\$120,000 2	
Director	\$109,21250	\$102,43020	\$104,359 69	\$102,10020	\$98,266 70	\$90,32627	\$112,40948	\$100,35923	
Manager	\$80,44212	\$73,15961	\$78,494 19	\$72,18162	\$79,935 ²⁹	\$73,62080	\$88,033142	\$77,37364	
Supervisor	\$72,53412	\$55,95810	\$62,637 23	\$45,857 7	\$71,843 ³⁶	\$44,043 7	\$65,77617	\$56,994 8	
Specialist	\$79,677 13	\$55,95810	\$65,993 13	\$86,31619	\$71,179 41	\$57,167 ³¹	\$61,68816	\$59,25014	
Coordinator	\$48,625 4	\$39,427 3	\$58,838 13	\$45,55012	\$49,881 21	\$45,37731	\$52,16411	\$50,625 8	
Engineer	\$86,13457	\$71,17314	\$80,243 90	\$71,02314	\$71,341111	\$61,526 40	\$73,710 ⁷⁸	\$83,51611	
Technician	\$49,13916	\$34,750 2	\$40,155 21	\$47,200 5	\$44,354 ³¹	\$35,25823	\$49,72711	\$38,580 4	
Consultant	\$113,550 8	\$103,000 3	\$49,230 9	\$99,467 6	\$43,600 10	\$88,607 6	\$99,70010	\$113,000 4	
Analyst	\$70,833 6	\$78,113 6	\$64,393 9	\$58,08311	\$116,853 19	\$66,508 9	\$69,91811	\$83,842 9	
Auditor	\$72,286 ⁷	\$60,533 6	\$70,974 8	\$65,05010	\$66,690 15	\$53,33413	\$84,901 6	\$69,500 4	
ISO coordinator	\$62,333 6	\$52,450 6	\$61,989 16	\$48,801 10	\$66,040 10	\$51,58319	\$45,387 7	\$40,400 5	
Inspector	\$48,634 7	NA	\$49,230 ⁹	\$42,286 5	\$43,600 10	\$31,45410	\$51,222 ⁹	\$42,000 1	

Note: Numbers in superscript represent the number of respondents. States by region are: Western: AK, AZ, CA, CO, HI, ID, MT, NM, NV, OR, UT, WA, WY; North Central: IA, IL, IN, KS, MI, MN, MO, ND, NE, OH, SD, WI; Northeastern: CT, DC, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT.

Vice president	Technician	Consultant	Analyst	Auditor	President/ CEO
\$280,000 ¹	NA	NA	\$63,000 1	\$77,000 1	NA
\$175,000 1	\$65,000 1	\$250,000 2	\$70,000 1	NA	NA
NA	\$35,000 1	NA	\$52,000 ¹	\$60,500 2	NA
\$156,22323	\$42,92246	\$87,36411	\$61,24012	\$59,59021	\$105,778 9
NA	\$38,667 3	\$80,000 1	NA	NA	\$50,000 1
NA	NA	NA	NA	\$45,000 1	NA
\$92,000 2	\$40,000 1	\$84,000 1	NA	NA	NA
NA	NA	NA	NA	NA	NA
\$120,000 ¹	\$64,000 2	\$86,833 3	\$71,100 ²	\$69,200 ³	\$270,000 ¹
\$105,000 1	\$34,76810	NA	\$54,000 ²	NA	NA
\$74,000 ¹	\$41,000 1	NA	\$53,000 1	\$120,907 1	\$104,000 1
\$114,167 6	\$35,622 9	\$25,000 ¹	\$69,000 1	\$72,500 ²	\$60,000 1
\$145,500 2	\$40,000 1	\$69,500 2	\$63,450 2	NA	NA
\$120,000 ¹	\$35,848 4	\$100,667 3	\$70,000 ¹	\$54,750 ²	NA
\$175,000 1	\$42,72010	NA	\$73,000 1	\$68,125 4	NA
\$97,667 3	\$38,000 2	\$74,700 ¹	\$59,200 ²	\$62,000 2	NA
\$101,500 4	\$43,549 6	\$125,000 1	\$36,000 1	\$80,000 1	NA
\$72,000 ¹	\$58,000 1	\$96,000 1	\$40,000 1	\$44,750 2	NA
\$83,500 2	NA	NA	\$67,275 ¹	NA	NA
NA	\$67,000 1	NA	\$250,000 1	\$61,500 ¹	NA
\$65,000 3	NA	\$66,867 6	\$45,227 5	\$70,500 ³	NA
\$116,400 5	NA	\$82,000 2	\$69,665 7	\$55,000 1	NA
\$124,000 ³	\$44,000 3	\$100,661 27	\$104,200 5	\$69,456 5	\$128,22218
\$140,000 ¹	NA	\$58,333 3	NA	\$77,000 1	\$68,501 2
\$127,349 7	\$42,667 3	\$85,875 4	\$67,676 ¹³	\$58,375 2	\$63,667 3
\$86,250 2	NA	\$143,20010	\$42,160 1	\$83,667 1	\$68,750 4
\$95,767	\$50,650 2	\$65,036 4	\$76,659 8	\$93,875 4	\$150,000 1

0v	erall	Overall	>10 years (experence
Male	Female	All	Male	Female
\$119,611 36	\$90,667 3	\$117,385 ³⁹	\$165,000 3	\$113,417 ³⁶
\$131,503 61	\$130,832 17	\$131,357 78	\$112,250 12	\$134,831 66
\$104,181237	\$98,196 90	\$103,282327	\$86,763 57	\$106,770 ²⁷⁰
\$105,214754	\$74,080267	\$79,3151021	\$71,462255	\$81,930766
\$81,169 88	\$51,401 32	\$63,837120	\$52,633 32	\$67,911 88
\$68,359 83	\$66,187 54	\$68,096160	\$63,872 63	\$70,840 ⁹⁷
\$60,828 68	\$50,600 56	\$56,209 ¹²⁴	\$65,642 40	\$52,967 ²⁹
\$71,042 ⁴⁰⁹	\$65,397 103	\$69,907512	\$74,654 ²⁹⁴	\$70,268 ⁶⁰
\$50,495 ⁹¹	\$38,415 31	\$47,425122	\$54,911 58	\$40,104 20
\$113,714 42	\$91,408 ¹⁵	\$107,844 57	\$106,548 35	\$90,471 13
\$67,658 41	\$70,307 35	\$68,878 76	\$65,649 42	\$72,867 34
\$72,374 ³¹	\$60,153 33	\$66,072 64	\$57,509 28	\$72,733 36
\$61,243 40	\$49,620 40	\$55,432 80	\$46,223 37	\$63,355 43
\$48,015 35	\$35,498 16	\$44,088 51	\$39,327 19	\$46,915 32

Southern: AL, AR, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, VA, WV;

everyone else. This quick and dirty, last-year vs. this-year analysis doesn't even take into account the number of people in our industry who've lost their jobs completely. In that light, a smaller-than-hoped-for pay increase—or even a salary cut-doesn't look so bad.

It will be interesting to see how these trends continue to play out. Next year's survey will provide more insight into the factors that affect the earning power of everyone in our industry, including a yet-to-be-determined change that will certainly have far-reaching implications—the elections in November. The question is, will John McCain or Barack Obama work as hard for his salary as you and I work for ours?

About the author

Mike Richman is Quality Digest's publisher.

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