

Quest Diagnostics Drug Testing Index™

Full year 2016 tables



**Table 1. Annual Positivity Rates – Urine Drug Tests
(For Combined U.S. Workforce)**

(Nearly 9 million tests from January to December 2016)

Year	Drug Positivity Rate
1988	13.6%
1989	12.7%
1990	11.0%
1991	8.8%
1992	8.8%
1993	8.4%
1994	7.5%
1995	6.7%
1996	5.8%
1997	5.0%
1998	4.8%
1999	4.6%
2000	4.7%
2001	4.6%
2002	4.4%
2003	4.5%
2004	4.5%
2005	4.1%
2006	3.8%
2007	3.8%
2008	3.6%
2009	3.6%
2010	3.5%
2011	3.5%
2012	3.5%
2013	3.7%
2014	3.9%
2015	4.0%
2016	4.2%

Table 2. Positivity Rates By Testing Category – Urine Drug Tests

Testing Category	2012	2013	2014	2015	2016
Federally-Mandated, Safety-Sensitive Workforce	1.6%	1.7 %	1.7%	1.8%	2.0%
General U.S. Workforce	4.1%	4.3%	4.7%	4.8%	4.9%
Combined U.S. Workforce	3.5%	3.7%	3.9%	4.0%	4.2%

**Table 3. Positivity Rates By Testing Reason – Urine Drug Tests
(For Federally-Mandated, Safety-Sensitive Workforce)**

(More than 2.2 million tests from January to December 2016)

Testing Reason	2012	2013	2014	2015	2016
Follow-Up	2.8%	3.0%	3.2%	3.1%	3.4%
For Cause	8.5%	9.3%	9.3%	11.0%	11.7%
Periodic	1.5%	1.3%	0.9%	1.8%	1.2%
Post-Accident	2.4%	2.5%	2.6%	2.8%	3.0%
Pre-Employment	1.7%	1.8%	1.9%	1.9%	2.0%
Random	1.4%	1.5%	1.5%	1.5%	1.7%
Return to Duty	2.7%	2.8%	2.9%	3.4%	3.2%

**Table 4. Positivity Rates By Testing Reason – Urine Drug Tests
(For General U.S. Workforce)**

(More than 6.5 million tests from January to December 2016)

Testing Reason	2012	2013	2014	2015	2016
Follow-Up	6.4%	7.3%	7.1%	8.6%	8.9%
For Cause	26.3%	27.7%	27.7%	31.9%	32.9%
Periodic	1.3%	1.3%	1.6%	1.6%	1.5%
Post-Accident	5.5%	5.9%	6.5%	6.9%	7.4%
Pre-Employment	3.7%	3.8%	4.0%	4.2%	4.4%
Random	4.9%	5.2%	5.7%	5.5%	5.5%
Return to Duty	5.4%	6.1%	6.4%	6.3%	6.3%

**Table 5. Positivity Rates By Drug Category – Urine Drug Tests
(For Federally-Mandated, Safety-Sensitive Workforce, as a percentage of all such tests)**

(More than 2.2 million tests from January to December 2016)

Drug Category	2012	2013	2014	2015	2016
6-AM	0.014%	0.017%	0.022%	0.023%	0.021%
Amphetamines	0.48%	0.51%	0.54%	0.58%	0.63%
Cocaine	0.27%	0.26%	0.25%	0.26%	0.28%
Marijuana	0.63%	0.67%	0.71%	0.71%	0.78%
MDMA	0.003%	0.004%	0.005%	0.005%	0.005%
Opiates	0.18%	0.19%	0.18%	0.21%	0.21%
PCP	0.03%	0.03%	0.03%	0.03%	0.03%

**Table 6. Positivity Rates By Drug Category – Urine Drug Tests
(For General U.S. Workforce, as a percentage of all such tests)**

(More than 6.5 million tests from January to December 2016)

Drug Category	2012	2013	2014	2015	2016
6-AM	0.022%	0.023%	0.031%	0.037%	0.037%
Amphetamines	0.87%	0.97%	1.04%	1.11%	1.20%
Barbiturates	0.25%	0.23%	0.22%	0.22%	0.22%
Benzodiazepines	0.73%	0.74%	0.71%	0.68%	0.66%
Cocaine	0.21%	0.22%	0.24%	0.25%	0.28%
Marijuana	2.0%	2.1%	2.4%	2.4%	2.5%
MDMA	0.001%	0.002%	0.003%	0.005%	0.004%
Methadone	0.19%	0.18%	0.18%	0.18%	0.18%
Opiates	0.44%	0.46%	0.47%	0.49%	0.47%
Oxycodones	0.96%	0.88%	0.80%	0.75%	0.69%
PCP	0.01%	0.01%	0.02%	0.02%	0.01%
Propoxyphene	0.02%	0.01%	0.01%	0.00%	0.00%

**Table 7. Positivity Rates By Drug Category – Urine Drug Tests
(For Combined U.S. Workforce, as a percentage of all such tests)**

(Nearly 9 million tests from January to December 2016)

Drug Category	2012	2013	2014	2015	2016
6-AM	0.017%	0.020%	0.025%	0.028%	0.028%
Amphetamines	0.77%	0.85%	0.90%	0.97%	1.10%
Barbiturates	0.25%	0.23%	0.22%	0.22%	0.22%
Benzodiazepines	0.73%	0.74%	0.71%	0.68%	0.66%
Cocaine	0.23%	0.23%	0.24%	0.25%	0.28%
Marijuana	1.6%	1.7%	1.9%	1.9%	2.0%
MDMA	0.002%	0.003%	0.004%	0.005%	0.004%
Methadone	0.19%	0.18%	0.18%	0.18%	0.18%
Opiates	0.37%	0.39%	0.39%	0.41%	0.40%
Oxycodones	0.96%	0.88%	0.80%	0.75%	0.69%
PCP	0.02%	0.02%	0.02%	0.02%	0.02%
Propoxyphene	0.02%	0.01%	0.01%	0.00%	0.00%

**Table 8. Non-Negative Rates By Specimen Validity Test (SVT)¹ Category – Urine Drug Tests
(For Federally-Mandated, Safety-Sensitive Workforce, as a percentage of all such tests)**

(More than 2.2 million tests from January to December 2016)

SVT Category	2012	2013	2014	2015	2016
Acid-Base	0.03%	0.03%	0.02%	0.02%	0.03%
Invalid	0.11%	0.18%	0.16%	0.09%	0.10%
Oxidizing Adulterants	0.000%	0.000%	0.000%	0.000%	0.000%
Substitution	0.05%	0.05%	0.05%	0.05%	0.05%

¹Specimen validity testing is the evaluation of a specimen to determine if it is consistent with a normal human specimen. Tests for specimen validity include tests to determine whether a specimen is adulterated or substituted.

**Table 9. Non-Negative Rates by SVT Category – Urine Drug Tests
(For General U.S. Workforce, as a percentage of all non-negatives)**

(More than 6.5 million tests from January to December 2016)

SVT Category	2012	2013	2014	2015	2016
Acid-Base	0.001%	0.001%	0.001%	0.001%	0.002%
Invalid	0.15%	0.13%	0.13%	0.11%	0.12%
Oxidizing Adulterants	0.000%	0.000%	0.000%	0.000%	0.000%
Substitution	0.01%	0.02%	0.02%	0.02%	0.02%

**Table 10. Non-Negative Rates by Drug/SVT Category – Urine Drug Tests
(For Federally-Mandated, Safety-Sensitive Workforce, as a percentage of all non-negatives)**

(More than 45 thousand non-negative test results from January to December 2016)

Drug/SVT Category	2012	2013	2014	2015	2016
6-AM	0.75%	0.87%	1.12%	1.14%	0.99%
Acid-Base	1.40%	1.30%	1.08%	1.14%	1.20%
Amphetamines	26.50%	26.30%	27.87%	29.45%	29.94%
Cocaine	14.90%	13.40%	12.58%	13.11%	13.27%
Invalid	6.36%	9.10%	7.95%	4.59%	4.49%
Marijuana	35.24%	34.60%	36.08%	35.91%	36.70%
MDMA	0.17%	0.21%	0.24%	0.24%	0.21%
Opiates	9.90%	10.00%	9.24%	10.66%	9.69%
Oxidizing Adulterants	0.000%	0.000%	0.000%	0.000%	0.000%
PCP	1.80%	1.50%	1.31%	1.31%	1.21%
Substituted	3.00%	2.70%	2.51%	2.45%	2.30%

**Table 11. Non-Negative Rates by Drug/SVT Category – Urine Drug Tests
(For General U.S. Workforce, as a percentage of all non-negatives)**

(More than 350 thousand non-negative test results from January to December 2016)

Drug/SVT Category	2012	2013	2014	2015	2016
6-AM	0.09%	0.11%	0.14%	0.16%	0.15%
Acid-Base	0.03%	0.03%	0.03%	0.03%	0.03%
Amphetamines	19.30%	20.40%	20.20%	21.34%	22.33%
Barbiturates	3.50%	3.10%	2.84%	2.83%	2.61%
Benzodiazepines	9.60%	9.30%	8.56%	8.21%	7.84%
Cocaine	4.80%	4.60%	4.70%	4.85%	5.24%
Invalid	3.30%	2.90%	2.53%	2.22%	2.29%
Marijuana	43.40%	44.00%	45.91%	45.19%	45.53%
MDMA	0.01%	0.01%	0.02%	0.03%	0.03%
Methadone	2.30%	2.20%	2.13%	2.12%	2.05%
Methaqualone	0.000%	0.000%	0.000%	0.000%	0.000%
Opiates	9.80%	9.80%	9.63%	9.80%	8.74%
Oxidizing adulterants	0.000%	0.000%	0.000%	0.000%	0.000%
Oxycodones	3.00%	2.80%	2.55%	2.57%	2.61%
PCP	0.30%	0.30%	0.36%	0.31%	0.24%
Propoxyphene	0.23%	0.11%	0.06%	0.03%	0.02%
Substituted	0.31%	0.32%	0.35%	0.32%	0.28%

**Table 12. Non-Negative Rates by Drug/ SVT Category – Urine Drug Tests
(For Combined U.S. Workforce, as a percentage of all non-negatives)**

(More than 400 thousand non-negative test results from January to December 2016)

Drug/SVT Category	2012	2013	2014	2015	2016
6-AM	0.17%	0.20%	0.26%	0.28%	0.25%
Acid-Base	0.20%	0.19%	0.16%	0.16%	0.17%
Amphetamines	20.20%	21.20%	21.16%	22.34%	23.23%
Barbiturates	3.10%	2.70%	2.48%	2.48%	2.30%
Benzodiazepines	8.50%	8.10%	7.48%	7.19%	6.92%
Cocaine	6.00%	5.80%	5.69%	5.87%	6.19%
Invalid	3.70%	3.70%	3.21%	2.51%	2.55%
Marijuana	42.40%	42.90%	44.67%	44.05%	44.49%
MDMA	0.03%	0.04%	0.05%	0.06%	0.05%
Methadone	2.00%	1.90%	1.86%	1.86%	1.81%
Methaqualone	0.000%	0.000%	0.000%	0.000%	0.000%
Opiates	9.80%	9.80%	9.59%	9.91%	8.85%
Oxidizing adulterants	0.000%	0.000%	0.000%	0.000%	0.000%
Oxycodones	2.60%	2.50%	2.23%	2.25%	2.30%
PCP	0.48%	0.44%	0.48%	0.43%	0.36%
Propoxyphene	0.20%	0.10%	0.06%	0.03%	0.02%
Substituted	0.63%	0.62%	0.62%	0.58%	0.52%

**Table 13. Positivity Rates By Testing Category – Oral Fluid Drug Tests
(For General U.S. Workforce)**

(More than 1.3 million tests from January to December 2016)

2012	2013	2014	2015	2016
5.5%	6.7%	7.7%	9.1%	10.5%

**Table 14. Positivity Rates By Testing Reason – Oral Fluid Drug Tests
(For General U.S. Workforce)**

(More than 1.3 million tests from January to December 2016)

Testing Reason	2012	2013	2014	2015	2016
Follow-Up	11.4%	9.0%	10.0%	11.4%	13.1%
For Cause	21.6%	28.5%	24.1%	22.1%	33.2%
Post-Accident	4.0%	4.6%	4.9%	5.7%	5.9%
Pre-Employment	5.7%	6.7%	7.6%	9.4%	10.8%
Random	4.1%	6.9%	9.5%	5.5%	6.3%
Return to Duty	6.3%	6.7%	8.7%	9.2%	10.6%

**Table 15. Positivity Rates By Drug Category – Oral Fluid Drug Tests
(For General U.S. Workforce)**

(More than 1.3 million tests from January to December 2016)

Drug Category	2012	2013	2014	2015	2016
Amphetamine	0.43%	0.57%	0.57%	0.56%	0.66%
Cocaine/Metabolite	0.31%	0.36%	0.47%	0.46%	0.63%
Marijuana	4.0%	5.1%	6.0%	7.5%	8.9%
Methamphetamines	0.16%	0.24%	0.33%	0.29%	0.42%
Opiates	0.88%	0.83%	0.85%	0.78%	0.71%
PCP	0.02%	0.02%	0.02%	0.04%	0.05%

**Table 16. Positivity Rates By Testing Category – Hair Drug Tests
(For General U.S. Workforce)**

(More than 170 thousand tests from January to December 2016)

2012	2013	2014	2015	2016
5.6%	7.4%	9.6%	10.3%	10.5%

**Table 17. Positivity Rates By Testing Reason – Hair Drug Tests
(For General U.S. Workforce)**

(More than 170 thousand tests from January to December 2016)

Testing Reason	2012	2013	2014	2015	2016
Pre-Employment	4.7%	6.0%	7.9%	8.8%	9.5%
Random	6.3%	9.1%	10.7%	11.5%	10.0%

**Table 18. Positivity Rates By Drug Category – Hair Drug Tests
(For General U.S. Workforce)**

(More than 170 thousand tests from January to December 2016)

Drug Category	2012	2013	2014	2015	2016
Amphetamines (Methamphetamine)	0.77%	1.2%	1.2%	1.5%	1.5%
Cocaine	2.3%	2.3%	2.6%	2.6%	2.7%
Marijuana	2.8%	4.3%	6.5%	7.0%	7.3%
Opiates	0.18%	0.19%	0.21%	0.32%	0.27%
PCP	0.01%	0.02%	0.06%	0.01%	0.01%