

**CAMECO RESOURCES
CROW BUTTE OPERATION**



**86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169**

**(308) 665-2215
(308) 665-2341 – FAX**

April 16, 2018

Attn: Document Control Desk, Director
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Quarterly Excursion Monitoring Report
Source Materials License No. SUA-1534, Docket No. 40-8943

Dear Sir or Madam:

Enclosed please find one copy of the Excursion Monitoring Report for the Crow Butte Uranium Project. The report is provided in accordance with License Condition 11.1(A) of Source Materials License SUA-1534. This report covers the first quarter of 2018.

If you have any questions concerning the report, please feel free to call me at (308) 665-2215 ext. 117.

Sincerely,
CAMECO RESOURCES
CROW BUTTE OPERATION

Walter D. Nelson
SHEQ Coordinator

cc: Deputy Director, Division of Decommissioning
Uranium Recovery and Waste Programs
Office of Nuclear Material Safety and Safeguards
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**CAMECO RESOURCES
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P.O. Box 169
Crawford, Nebraska 69339-0169

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**CROW BUTTE URANIUM PROJECT
EXCURSION MONITORING
REPORT**

for

FIRST QUARTER, 2018

USNRC Source Materials License SUA 1534

**CAMECO RESOURCES
CROW BUTTE OPERATION**



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P.O. Box 169
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Excursion Monitoring and Corrective Actions

Biweekly excursion monitoring in the shallow aquifer and perimeter monitor wells was continued in Mine Units 2 through 11 during the first quarter of 2018. There were no monitor wells on excursion status during the quarter.

Appendix A contains a summary of the weekly excursion indicator parameter values.

Appendix A
Summary of
Weekly Excursion Indicator Parameter Values
First Quarter, 2018

Submitted by:
 Crow Butte Resources, Inc.
 P.O. Box 169
 Crawford, NE 69339

NRC
 Excursion Monitoring Report
 Quarter 1 of 2018

Submitted to:
 Document Control Desk, Director
 Office of Nuclear Material Safety &
 Safeguards
 U.S.Nuclear Regulatory Commission
 Washington, DC 20555-0001

Permit No. SUA-1534

| Well ID | Alkalinity | | | Conductivity | | | Chloride | | |
|-----------|------------|-----|------|--------------|------|------|----------|-----|-------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| BOW96-001 | 221 | 223 | 222 | 519 | 526 | 521 | 7.8 | 8.3 | 8 |
| CM02-005 | 358 | 390 | 366 | 2150 | 2311 | 2197 | 209 | 220 | 213.9 |
| CM02-006 | 257 | 271 | 265 | 931 | 986 | 946 | 54 | 60 | 56.7 |
| CM02-007 | 269 | 271 | 270 | 1035 | 1080 | 1055 | 67 | 73 | 69.9 |
| CM03-005 | 300 | 303 | 301 | 1944 | 1968 | 1959 | 186 | 188 | 186.8 |
| CM03-006 | 294 | 299 | 297 | 1927 | 1950 | 1940 | 184 | 187 | 185.8 |
| CM04-001 | 306 | 309 | 308 | 1843 | 1853 | 1846 | 177 | 181 | 179.1 |
| CM04-002 | 306 | 312 | 309 | 1862 | 1875 | 1868 | 179 | 182 | 180.6 |
| CM04-003 | 304 | 309 | 307 | 1865 | 1875 | 1870 | 178 | 181 | 179.1 |
| CM04-004 | 332 | 344 | 338 | 1953 | 2010 | 1984 | 184 | 193 | 187.3 |
| CM05-001 | 310 | 316 | 313 | 1849 | 1878 | 1860 | 172 | 180 | 174.3 |
| CM05-002 | 302 | 307 | 305 | 1847 | 1864 | 1857 | 177 | 182 | 178.9 |
| CM05-003 | 305 | 309 | 307 | 1853 | 1860 | 1857 | 176 | 180 | 178.3 |
| CM05-004 | 304 | 311 | 307 | 1854 | 1867 | 1861 | 179 | 182 | 179.9 |
| CM05-005 | 301 | 307 | 305 | 1849 | 1858 | 1854 | 177 | 180 | 178 |
| CM05-006 | 302 | 306 | 304 | 1859 | 1868 | 1861 | 175 | 180 | 177.6 |
| CM05-007 | 302 | 307 | 305 | 1857 | 1863 | 1860 | 176 | 180 | 178.3 |
| CM05-008 | 303 | 308 | 306 | 1865 | 1887 | 1873 | 177 | 180 | 178.3 |
| CM05-009 | 300 | 305 | 303 | 1868 | 1877 | 1873 | 174 | 179 | 176.6 |
| CM05-010 | 293 | 298 | 296 | 1889 | 1902 | 1895 | 173 | 176 | 175.1 |
| CM05-011 | 304 | 307 | 305 | 1909 | 1921 | 1914 | 176 | 180 | 177.9 |
| CM05-012 | 296 | 303 | 298 | 1894 | 1903 | 1898 | 178 | 185 | 181.6 |
| CM05-013 | 291 | 296 | 293 | 1890 | 1906 | 1899 | 178 | 183 | 180.6 |
| CM05-018 | 296 | 305 | 300 | 1912 | 1932 | 1922 | 183 | 189 | 184.8 |
| CM05-019 | 298 | 308 | 303 | 1760 | 1859 | 1824 | 160 | 175 | 169.8 |
| CM05-020 | 311 | 333 | 317 | 1865 | 1990 | 1922 | 169 | 187 | 179.7 |
| CM05-021 | 298 | 302 | 300 | 1922 | 1928 | 1924 | 183 | 186 | 184.2 |

4/16/2018

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|-----------|-----|-----|-----|------|------|------|-----|-----|-------|
| CM05-022 | 299 | 303 | 301 | 1912 | 1925 | 1922 | 182 | 184 | 182.7 |
| CM05-023 | 296 | 298 | 297 | 1913 | 1922 | 1916 | 181 | 185 | 182.8 |
| CM05-024 | 298 | 301 | 300 | 1936 | 1946 | 1940 | 181 | 185 | 183.2 |
| CM05-025 | 291 | 298 | 294 | 1933 | 1939 | 1936 | 172 | 175 | 173.3 |
| CM05-026 | 298 | 302 | 300 | 1948 | 1959 | 1951 | 181 | 186 | 184.3 |
| CM05-027 | 306 | 308 | 307 | 1976 | 1989 | 1984 | 186 | 192 | 189 |
| CM06-001 | 289 | 300 | 293 | 1842 | 1874 | 1855 | 175 | 179 | 176.3 |
| CM06-002 | 292 | 297 | 294 | 1915 | 1925 | 1922 | 178 | 181 | 179.6 |
| CM06-003 | 291 | 298 | 295 | 1910 | 1923 | 1916 | 177 | 182 | 179.6 |
| CM06-004 | 294 | 300 | 298 | 1920 | 1930 | 1925 | 179 | 182 | 180.9 |
| CM06-005 | 286 | 293 | 289 | 1953 | 1960 | 1956 | 180 | 181 | 180.3 |
| CM06-006 | 295 | 300 | 298 | 1928 | 1938 | 1933 | 178 | 180 | 179 |
| CM06-007 | 279 | 310 | 290 | 1946 | 2004 | 1965 | 177 | 185 | 180 |
| CM06-008 | 289 | 294 | 292 | 1923 | 1936 | 1930 | 177 | 179 | 177.9 |
| CM06-009 | 282 | 291 | 287 | 1916 | 1938 | 1925 | 177 | 179 | 177.5 |
| CM06-010 | 288 | 292 | 290 | 1933 | 1948 | 1941 | 179 | 182 | 180.2 |
| CM06-012 | 297 | 303 | 300 | 1905 | 1929 | 1924 | 181 | 186 | 183.8 |
| CM06-013 | 298 | 305 | 302 | 1919 | 1931 | 1926 | 182 | 186 | 183.5 |
| CM06-014 | 293 | 298 | 296 | 1909 | 1921 | 1917 | 178 | 182 | 180.3 |
| CM06-015 | 294 | 298 | 296 | 1927 | 1934 | 1931 | 180 | 185 | 182.7 |
| CM06-016A | 295 | 301 | 298 | 1913 | 1924 | 1918 | 179 | 183 | 181.5 |
| CM06-017 | 299 | 306 | 303 | 1906 | 1922 | 1915 | 178 | 184 | 181.7 |
| CM06-018 | 303 | 307 | 305 | 1906 | 1916 | 1913 | 179 | 184 | 181.7 |
| CM06-019 | 299 | 313 | 308 | 1899 | 1910 | 1905 | 180 | 183 | 181.8 |
| CM06-025 | 305 | 309 | 307 | 1895 | 1907 | 1904 | 182 | 184 | 182.8 |
| CM06-026 | 308 | 315 | 311 | 1879 | 1890 | 1885 | 178 | 185 | 181.3 |
| CM06-028 | 315 | 320 | 318 | 1822 | 1835 | 1826 | 173 | 176 | 174.7 |
| CM06-029 | 308 | 311 | 309 | 1884 | 1894 | 1888 | 180 | 181 | 180.5 |
| CM06-030 | 314 | 318 | 316 | 1843 | 1855 | 1849 | 175 | 178 | 176.5 |
| CM06-031 | 314 | 324 | 318 | 1865 | 1872 | 1869 | 176 | 180 | 177.7 |
| CM06-032 | 313 | 318 | 315 | 1872 | 1886 | 1878 | 177 | 180 | 178.3 |
| CM07-010 | 293 | 297 | 296 | 1880 | 1893 | 1885 | 182 | 186 | 184.4 |

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|----------|-----|-----|-----|------|------|------|-----|-----|-------|
| CM07-011 | 292 | 296 | 294 | 1898 | 1916 | 1906 | 182 | 189 | 185.3 |
| CM07-012 | 292 | 295 | 293 | 1901 | 1912 | 1908 | 182 | 187 | 184.1 |
| CM07-013 | 291 | 294 | 292 | 1926 | 1933 | 1929 | 181 | 187 | 183.1 |
| CM07-014 | 292 | 298 | 295 | 1934 | 1936 | 1935 | 183 | 189 | 184.9 |
| CM07-015 | 296 | 299 | 298 | 1939 | 1947 | 1943 | 183 | 188 | 185.6 |
| CM07-016 | 295 | 302 | 299 | 1944 | 1961 | 1955 | 183 | 188 | 185.4 |
| CM08-001 | 281 | 288 | 286 | 1930 | 1954 | 1944 | 176 | 180 | 178.2 |
| CM08-002 | 290 | 295 | 293 | 1917 | 1928 | 1924 | 179 | 182 | 180.3 |
| CM08-003 | 319 | 405 | 337 | 2017 | 2362 | 2091 | 191 | 236 | 203.2 |
| CM08-004 | 291 | 296 | 294 | 1903 | 1920 | 1912 | 180 | 184 | 182.2 |
| CM08-005 | 286 | 292 | 289 | 1896 | 1912 | 1906 | 181 | 183 | 182.3 |
| CM08-006 | 294 | 300 | 297 | 1886 | 1916 | 1907 | 180 | 182 | 181 |
| CM08-007 | 302 | 317 | 308 | 1898 | 1936 | 1907 | 179 | 182 | 181.3 |
| CM08-008 | 305 | 313 | 310 | 1899 | 1918 | 1911 | 182 | 186 | 184 |
| CM08-009 | 310 | 316 | 313 | 1860 | 1873 | 1867 | 176 | 179 | 177.3 |
| CM08-010 | 316 | 361 | 345 | 1878 | 2026 | 1978 | 175 | 199 | 189.8 |
| CM08-011 | 308 | 313 | 311 | 1835 | 1856 | 1847 | 173 | 180 | 175.7 |
| CM08-012 | 311 | 316 | 314 | 1852 | 1867 | 1859 | 172 | 181 | 174.8 |
| CM08-019 | 313 | 318 | 315 | 1800 | 1837 | 1824 | 170 | 173 | 170.6 |
| CM08-020 | 314 | 321 | 317 | 1801 | 1839 | 1826 | 167 | 172 | 170.4 |
| CM08-021 | 312 | 323 | 317 | 1822 | 1840 | 1833 | 169 | 172 | 170 |
| CM08-022 | 317 | 323 | 320 | 1824 | 1841 | 1835 | 168 | 173 | 170.3 |
| CM08-026 | 314 | 325 | 318 | 1821 | 1836 | 1831 | 170 | 175 | 172.3 |
| CM08-027 | 315 | 318 | 317 | 1831 | 1839 | 1836 | 171 | 174 | 173.2 |
| CM08-028 | 317 | 321 | 319 | 1829 | 1834 | 1831 | 173 | 174 | 173.8 |
| CM09-008 | 295 | 299 | 298 | 1797 | 1808 | 1802 | 173 | 178 | 176 |
| CM09-009 | 299 | 303 | 302 | 1797 | 1800 | 1798 | 175 | 178 | 176.5 |
| CM09-010 | 299 | 301 | 300 | 1779 | 1785 | 1783 | 176 | 179 | 177.5 |
| CM09-011 | 299 | 303 | 301 | 1802 | 1804 | 1803 | 175 | 182 | 178.8 |
| CM09-012 | 297 | 304 | 300 | 1809 | 1819 | 1814 | 179 | 181 | 179.6 |
| CM09-013 | 294 | 299 | 297 | 1809 | 1819 | 1812 | 177 | 182 | 179.1 |
| CM09-014 | 299 | 302 | 301 | 1824 | 1833 | 1829 | 180 | 183 | 181.4 |
| CM09-015 | 299 | 303 | 301 | 1819 | 1824 | 1821 | 177 | 182 | 178.6 |

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|----------|-----|-----|-----|------|------|------|-----|-----|-------|
| CM09-016 | 299 | 307 | 303 | 1835 | 1843 | 1839 | 178 | 186 | 180.9 |
| CM09-017 | 298 | 306 | 301 | 1828 | 1839 | 1833 | 177 | 183 | 180 |
| CM09-018 | 295 | 304 | 299 | 1824 | 1833 | 1830 | 177 | 182 | 179.4 |
| CM09-019 | 296 | 301 | 298 | 1839 | 1847 | 1844 | 179 | 186 | 181.3 |
| CM09-020 | 293 | 298 | 295 | 1862 | 1868 | 1865 | 181 | 188 | 183 |
| CM10-001 | 313 | 322 | 316 | 1843 | 1869 | 1854 | 172 | 179 | 174.5 |
| CM10-002 | 316 | 324 | 320 | 1858 | 1896 | 1874 | 174 | 180 | 176.3 |
| CM10-003 | 316 | 326 | 320 | 1871 | 1916 | 1894 | 177 | 184 | 180.8 |
| CM10-004 | 316 | 327 | 321 | 1882 | 1928 | 1909 | 179 | 189 | 183.7 |
| CM10-005 | 386 | 397 | 391 | 2250 | 2305 | 2277 | 236 | 251 | 243.7 |
| CM10-006 | 312 | 318 | 315 | 1836 | 1849 | 1843 | 170 | 174 | 172.3 |
| CM10-007 | 313 | 317 | 315 | 1833 | 1850 | 1844 | 171 | 176 | 173 |
| CM10-008 | 321 | 330 | 325 | 1845 | 1902 | 1870 | 173 | 181 | 176.4 |
| CM10-009 | 315 | 321 | 318 | 1822 | 1841 | 1835 | 169 | 173 | 170.9 |
| CM10-010 | 362 | 383 | 374 | 2056 | 2153 | 2107 | 195 | 207 | 201.9 |
| CM10-011 | 319 | 325 | 323 | 1822 | 1834 | 1829 | 165 | 169 | 166.6 |
| CM10-012 | 330 | 340 | 336 | 1812 | 1832 | 1824 | 166 | 170 | 168.3 |
| CM10-013 | 345 | 352 | 348 | 1755 | 1788 | 1771 | 165 | 171 | 167.7 |
| CM10-014 | 344 | 351 | 348 | 1725 | 1767 | 1740 | 162 | 166 | 163.9 |
| CM10-015 | 320 | 330 | 327 | 1728 | 1780 | 1752 | 163 | 170 | 165.3 |
| CM10-016 | 306 | 316 | 311 | 1834 | 1857 | 1849 | 160 | 162 | 160.7 |
| CM10-017 | 322 | 335 | 327 | 1807 | 1851 | 1827 | 159 | 162 | 160.7 |
| CM10-020 | 317 | 325 | 321 | 1804 | 1839 | 1820 | 163 | 175 | 166.9 |
| CM10-021 | 313 | 320 | 317 | 1811 | 1834 | 1824 | 164 | 170 | 166.1 |
| CM10-022 | 318 | 325 | 322 | 1829 | 1840 | 1836 | 165 | 172 | 167.4 |
| CM10-023 | 322 | 328 | 324 | 1819 | 1844 | 1838 | 164 | 169 | 166 |
| CM10-024 | 324 | 332 | 328 | 1855 | 1872 | 1863 | 169 | 173 | 171.3 |
| CM10-025 | 321 | 326 | 323 | 1820 | 1841 | 1836 | 168 | 170 | 169 |
| CM10-026 | 317 | 327 | 319 | 1818 | 1833 | 1826 | 166 | 170 | 168 |
| CM10-027 | 313 | 319 | 315 | 1837 | 1848 | 1843 | 170 | 173 | 171.9 |
| CM10-028 | 310 | 320 | 315 | 1819 | 1848 | 1839 | 167 | 173 | 170.3 |
| CM10-029 | 314 | 320 | 317 | 1834 | 1847 | 1842 | 169 | 172 | 170.7 |

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|-----------|-----|-----|-----|------|------|------|-----|-----|-------|
| CM10-030 | 316 | 321 | 318 | 1838 | 1852 | 1846 | 170 | 172 | 171 |
| CM10-031 | 311 | 321 | 315 | 1818 | 1847 | 1837 | 167 | 172 | 169.4 |
| CM10-032 | 313 | 319 | 316 | 1851 | 1866 | 1861 | 161 | 164 | 162.7 |
| CM10-033 | 330 | 357 | 342 | 1771 | 1820 | 1797 | 164 | 170 | 166.3 |
| CM10-034 | 326 | 346 | 332 | 1804 | 1857 | 1825 | 165 | 174 | 169.7 |
| CM11-001 | 297 | 302 | 299 | 1848 | 1858 | 1852 | 174 | 179 | 177.8 |
| CM11-002A | 297 | 301 | 299 | 1849 | 1856 | 1852 | 176 | 180 | 178.5 |
| CM11-003 | 315 | 326 | 320 | 1912 | 1948 | 1925 | 180 | 185 | 183.3 |
| CM11-004 | 305 | 315 | 309 | 1857 | 1881 | 1865 | 172 | 181 | 178.7 |
| CM11-005 | 298 | 302 | 300 | 1830 | 1837 | 1834 | 175 | 178 | 176.8 |
| CM11-006 | 301 | 333 | 313 | 1834 | 1957 | 1883 | 174 | 182 | 179 |
| CM11-007 | 293 | 298 | 296 | 1817 | 1825 | 1821 | 172 | 175 | 173.8 |
| CM11-008 | 311 | 325 | 319 | 1890 | 1945 | 1916 | 176 | 185 | 180.2 |
| CM11-009 | 288 | 297 | 294 | 1816 | 1827 | 1824 | 171 | 172 | 171.5 |
| CM11-010 | 293 | 298 | 296 | 1825 | 1831 | 1827 | 171 | 175 | 173.5 |
| CM11-011 | 312 | 333 | 320 | 1863 | 1954 | 1904 | 176 | 185 | 180.8 |
| CM11-012 | 295 | 300 | 298 | 1796 | 1804 | 1801 | 172 | 175 | 173 |
| CM11-013 | 297 | 302 | 300 | 1805 | 1809 | 1807 | 174 | 177 | 174.8 |
| CM11-014 | 296 | 301 | 300 | 1794 | 1799 | 1796 | 174 | 180 | 176.3 |
| CM11-015 | 299 | 302 | 300 | 1792 | 1797 | 1795 | 173 | 175 | 174 |
| CM11-016 | 299 | 302 | 300 | 1773 | 1780 | 1778 | 173 | 178 | 174.8 |
| CM11-017 | 296 | 301 | 299 | 1775 | 1779 | 1777 | 173 | 177 | 174.7 |
| CM11-018 | 303 | 311 | 307 | 1797 | 1812 | 1806 | 173 | 177 | 174.8 |
| CM11-019 | 299 | 305 | 302 | 1795 | 1800 | 1797 | 173 | 177 | 174.5 |
| IJ013P | 319 | 323 | 321 | 1293 | 1315 | 1300 | 98 | 101 | 99.7 |
| PR008 | 334 | 350 | 341 | 1379 | 1400 | 1388 | 102 | 104 | 102.7 |
| PR015 | 286 | 289 | 287 | 1095 | 1100 | 1096 | 75 | 81 | 78.4 |
| SM02-001 | 189 | 192 | 190 | 526 | 534 | 530 | 14 | 14 | 14 |
| SM02-002 | 165 | 168 | 166 | 461 | 466 | 463 | 11 | 11 | 11 |
| SM02-003 | 192 | 198 | 196 | 549 | 554 | 551 | 16 | 17 | 16.1 |
| SM03-001 | 203 | 208 | 205 | 662 | 669 | 665 | 12 | 13 | 12.1 |
| SM03-002 | 176 | 178 | 177 | 442 | 449 | 445 | 3.5 | 3.7 | 3.6 |
| SM03-003 | 174 | 176 | 175 | 447 | 457 | 453 | 5.6 | 5.8 | 5.7 |

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|-----------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| SM04-001 | 154 | 155 | 155 | 363 | 371 | 367 | 2.6 | 3.3 | 2.9 |
| SM04-002 | 191 | 210 | 196 | 597 | 620 | 613 | 15 | 22 | 17.7 |
| SM04-003 | 187 | 191 | 190 | 612 | 624 | 619 | 12 | 13 | 12.3 |
| SM04-004 | 204 | 208 | 207 | 616 | 629 | 623 | 12 | 13 | 12.8 |
| SM04-005A | 193 | 197 | 195 | 531 | 547 | 537 | 11 | 12 | 11.5 |
| SM04-006 | 262 | 271 | 267 | 649 | 658 | 655 | 13 | 14 | 13.9 |
| SM04-007 | 178 | 182 | 180 | 516 | 532 | 522 | 17 | 18 | 17.9 |
| SM04-008 | 287 | 294 | 290 | 690 | 700 | 695 | 11 | 12 | 11.6 |
| SM04-009 | 282 | 284 | 283 | 670 | 687 | 678 | 12 | 13 | 12.3 |
| SM04-010A | 294 | 297 | 296 | 702 | 712 | 707 | 12 | 13 | 12.4 |
| SM04-011A | 288 | 291 | 290 | 695 | 700 | 698 | 10 | 11 | 10.9 |
| SM05-001 | 232 | 234 | 233 | 602 | 606 | 604 | 12 | 13 | 12.1 |
| SM05-002 | 186 | 192 | 190 | 449 | 453 | 451 | 5.1 | 5.6 | 5.4 |
| SM05-003 | 224 | 228 | 226 | 581 | 590 | 586 | 11 | 12 | 11.9 |
| SM05-004 | 207 | 210 | 209 | 558 | 564 | 561 | 16 | 16 | 16 |
| SM05-005 | 231 | 237 | 234 | 596 | 602 | 598 | 11 | 12 | 11.3 |
| SM05-006 | 207 | 210 | 208 | 570 | 578 | 573 | 13 | 13 | 13 |
| SM05-007 | 212 | 215 | 213 | 568 | 575 | 572 | 9.5 | 10 | 9.8 |
| SM05-008 | 204 | 209 | 206 | 555 | 560 | 557 | 12 | 13 | 12.4 |
| SM05-009 | 203 | 207 | 205 | 542 | 554 | 548 | 11 | 12 | 11.5 |
| SM05-010 | 208 | 211 | 209 | 548 | 560 | 554 | 10 | 11 | 10.5 |
| SM05-011 | 215 | 217 | 216 | 567 | 577 | 572 | 10 | 11 | 10.8 |
| SM05-012 | 206 | 210 | 208 | 549 | 561 | 555 | 10 | 11 | 10.3 |
| SM05-013 | 198 | 200 | 199 | 540 | 553 | 547 | 12 | 13 | 12.5 |
| SM05-014 | 180 | 182 | 181 | 477 | 489 | 483 | 8.2 | 8.8 | 8.5 |
| SM05-015 | 202 | 205 | 203 | 541 | 550 | 546 | 12 | 12 | 12 |
| SM05-016 | 182 | 184 | 183 | 448 | 457 | 453 | 5.5 | 5.7 | 5.6 |
| SM05-017 | 165 | 168 | 167 | 411 | 419 | 415 | 1.6 | 2.5 | 2.1 |
| SM05-018 | 172 | 173 | 173 | 428 | 437 | 433 | 2.9 | 3.3 | 3.1 |
| SM05-019 | 182 | 186 | 184 | 477 | 492 | 482 | 4.4 | 5 | 4.7 |
| SM05-020 | 175 | 178 | 176 | 474 | 479 | 477 | 5.2 | 5.5 | 5.4 |
| SM05-021 | 178 | 180 | 179 | 455 | 464 | 460 | 4.7 | 5.2 | 5.0 |

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|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| SM05-022 | 181 | 184 | 182 | 459 | 467 | 463 | 2.7 | 3.8 | 3.5 |
| SM05-023 | 181 | 182 | 181 | 457 | 464 | 461 | 3.3 | 3.7 | 3.5 |
| SM05-024 | 173 | 174 | 173 | 439 | 451 | 444 | 5.4 | 6 | 5.6 |
| SM05-025 | 171 | 174 | 172 | 459 | 471 | 464 | 5.6 | 6.6 | 6.3 |
| SM06-001 | 209 | 213 | 211 | 536 | 544 | 540 | 7.6 | 8.6 | 8.1 |
| SM06-002 | 205 | 207 | 206 | 541 | 550 | 545 | 10 | 11 | 10.6 |
| SM06-003 | 201 | 202 | 201 | 532 | 544 | 539 | 9.5 | 10 | 9.9 |
| SM06-004 | 206 | 208 | 207 | 517 | 526 | 522 | 8.2 | 8.5 | 8.3 |
| SM06-005 | 213 | 215 | 214 | 514 | 522 | 517 | 6.8 | 7.7 | 7.2 |
| SM06-006 | 221 | 224 | 223 | 471 | 477 | 474 | 3.2 | 3.8 | 3.4 |
| SM06-007 | 224 | 226 | 224 | 491 | 499 | 495 | 6.3 | 7.1 | 6.8 |
| SM06-008 | 205 | 208 | 206 | 491 | 500 | 496 | 8.7 | 9.3 | 8.9 |
| SM06-009 | 220 | 222 | 221 | 480 | 485 | 483 | 6 | 6.1 | 6.0 |
| SM06-010 | 204 | 207 | 206 | 498 | 506 | 502 | 8.1 | 9.2 | 8.8 |
| SM06-011 | 211 | 212 | 211 | 513 | 527 | 521 | 11 | 12 | 11.8 |
| SM06-012 | 235 | 236 | 236 | 514 | 523 | 518 | 6.6 | 7.1 | 6.8 |
| SM06-013 | 238 | 242 | 240 | 518 | 533 | 523 | 6.1 | 6.6 | 6.4 |
| SM06-014 | 202 | 204 | 203 | 544 | 556 | 550 | 12 | 13 | 12.8 |
| SM06-015 | 205 | 206 | 206 | 532 | 540 | 537 | 11 | 11 | 11 |
| SM06-016 | 208 | 210 | 208 | 444 | 450 | 447 | 3.7 | 4.2 | 3.9 |
| SM06-017 | 232 | 236 | 234 | 479 | 486 | 483 | 3.8 | 4.5 | 4.1 |
| SM06-018 | 196 | 200 | 199 | 541 | 563 | 551 | 15 | 15 | 15 |
| SM06-019 | 205 | 207 | 206 | 489 | 498 | 494 | 8.8 | 9.4 | 9.2 |
| SM06-020 | 208 | 215 | 211 | 519 | 574 | 534 | 11 | 15 | 12 |
| SM06-021 | 216 | 219 | 217 | 537 | 550 | 543 | 12 | 12 | 12 |
| SM06-022 | 181 | 209 | 203 | 409 | 483 | 464 | 6.8 | 7.3 | 7.2 |
| SM06-023 | 243 | 253 | 247 | 529 | 552 | 537 | 7 | 7.9 | 7.4 |
| SM06-024 | 234 | 238 | 235 | 532 | 546 | 538 | 8.4 | 8.6 | 8.5 |
| SM06-025 | 214 | 216 | 215 | 530 | 542 | 536 | 11 | 13 | 12 |
| SM06-026 | 204 | 205 | 204 | 471 | 480 | 475 | 7.9 | 8.4 | 8.1 |
| SM06-027 | 222 | 230 | 225 | 499 | 513 | 505 | 7.3 | 7.8 | 7.6 |
| SM06-028 | 270 | 273 | 271 | 641 | 650 | 647 | 11 | 12 | 11.5 |
| SM07-001 | 171 | 174 | 173 | 425 | 432 | 430 | 3.4 | 3.9 | 3.6 |

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|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SM07-002 | 163 | 165 | 164 | 396 | 406 | 401 | 3.2 | 3.7 | 3.4 |
| SM07-003 | 169 | 170 | 169 | 427 | 439 | 433 | 4.4 | 4.7 | 4.5 |
| SM07-004 | 163 | 165 | 164 | 394 | 406 | 400 | 3.8 | 4 | 3.9 |
| SM07-005 | 167 | 169 | 168 | 417 | 429 | 423 | 3.9 | 4.3 | 4.1 |
| SM07-006 | 152 | 154 | 153 | 361 | 372 | 367 | 4.6 | 5.1 | 4.7 |
| SM07-007 | 168 | 170 | 169 | 428 | 436 | 431 | 4.4 | 4.8 | 4.6 |
| SM07-008 | 166 | 168 | 167 | 449 | 492 | 471 | 8.1 | 9.4 | 8.4 |
| SM07-009 | 165 | 168 | 167 | 415 | 425 | 420 | 4.1 | 4.7 | 4.3 |
| SM07-010 | 166 | 168 | 168 | 433 | 444 | 439 | 3.8 | 4.2 | 4.0 |
| SM07-011 | 141 | 145 | 142 | 338 | 355 | 344 | 2.9 | 3.4 | 3.1 |
| SM07-012 | 167 | 167 | 167 | 435 | 444 | 439 | 4.5 | 4.6 | 4.6 |
| SM07-013 | 149 | 152 | 150 | 363 | 371 | 368 | 4.7 | 5.4 | 5.0 |
| SM07-014 | 136 | 137 | 136 | 329 | 337 | 334 | 1.3 | 3.8 | 3.3 |
| SM07-015 | 140 | 143 | 141 | 326 | 334 | 329 | 3.3 | 3.8 | 3.5 |
| SM07-016 | 139 | 141 | 140 | 326 | 333 | 328 | 3 | 3.4 | 3.2 |
| SM07-017 | 177 | 180 | 178 | 402 | 409 | 405 | 3.4 | 3.6 | 3.5 |
| SM07-018 | 137 | 139 | 138 | 333 | 338 | 334 | 2.7 | 3.4 | 2.9 |
| SM07-019 | 141 | 143 | 142 | 344 | 351 | 347 | 3.3 | 4 | 3.6 |
| SM07-020 | 146 | 147 | 146 | 337 | 343 | 339 | 1.3 | 2.1 | 1.9 |
| SM07-021 | 143 | 143 | 143 | 336 | 343 | 338 | 2.3 | 2.9 | 2.5 |
| SM07-022 | 147 | 148 | 148 | 339 | 346 | 342 | 2.5 | 2.7 | 2.6 |
| SM07-023 | 175 | 178 | 176 | 447 | 455 | 451 | 4 | 4.3 | 4.1 |
| SM07-024 | 186 | 188 | 187 | 566 | 579 | 576 | 7.9 | 8.4 | 8.2 |
| SM07-025 | 154 | 156 | 155 | 358 | 364 | 360 | 3.2 | 3.3 | 3.3 |
| SM08-001 | 232 | 235 | 233 | 501 | 515 | 508 | 6.1 | 6.6 | 6.3 |
| SM08-002 | 237 | 239 | 238 | 512 | 529 | 520 | 5.9 | 6.4 | 6.2 |
| SM08-003 | 228 | 231 | 229 | 507 | 521 | 512 | 6.6 | 7.3 | 7.0 |
| SM08-004 | 221 | 223 | 222 | 508 | 529 | 518 | 8.8 | 9.5 | 9.1 |
| SM08-005 | 241 | 244 | 242 | 544 | 565 | 554 | 8 | 8.5 | 8.3 |
| SM08-006 | 242 | 245 | 243 | 577 | 605 | 587 | 9.3 | 9.6 | 9.5 |
| SM08-007 | 244 | 245 | 244 | 566 | 587 | 576 | 8.8 | 9.1 | 9.0 |
| SM08-008 | 238 | 240 | 239 | 509 | 529 | 518 | 6 | 6.3 | 6.2 |

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| SM08-009 | 237 | 239 | 238 | 510 | 523 | 517 | 6.1 | 6.5 | 6.3 |
| SM08-010 | 235 | 236 | 236 | 547 | 570 | 557 | 8.7 | 9.1 | 9.0 |
| SM08-011 | 228 | 231 | 230 | 535 | 550 | 544 | 7.7 | 8.5 | 8.2 |
| SM08-012 | 239 | 240 | 240 | 556 | 572 | 565 | 8.7 | 9.1 | 8.9 |
| SM08-013 | 227 | 230 | 229 | 536 | 554 | 542 | 10 | 12 | 10.7 |
| SM08-014 | 228 | 231 | 230 | 543 | 568 | 551 | 9.6 | 12 | 10.2 |
| SM08-015 | 221 | 222 | 222 | 524 | 541 | 533 | 8.4 | 8.6 | 8.5 |
| SM08-016 | 224 | 226 | 225 | 538 | 552 | 546 | 8.3 | 8.8 | 8.5 |
| SM08-017 | 237 | 239 | 237 | 560 | 569 | 564 | 8.9 | 9.5 | 9.1 |
| SM08-018 | 227 | 232 | 228 | 544 | 551 | 546 | 9.8 | 10 | 9.9 |
| SM08-019 | 233 | 236 | 234 | 554 | 560 | 557 | 8.9 | 9.5 | 9.2 |
| SM08-020 | 221 | 225 | 223 | 542 | 549 | 545 | 8.3 | 9 | 8.7 |
| SM08-021 | 222 | 227 | 224 | 539 | 544 | 542 | 8.5 | 8.9 | 8.7 |
| SM08-022 | 228 | 231 | 229 | 562 | 568 | 564 | 8.2 | 8.8 | 8.6 |
| SM08-023 | 222 | 226 | 223 | 535 | 543 | 539 | 8.6 | 9 | 8.8 |
| SM08-024 | 223 | 227 | 224 | 540 | 549 | 545 | 8.4 | 9.5 | 9.1 |
| SM08-025 | 239 | 243 | 240 | 597 | 607 | 601 | 9.7 | 10 | 9.9 |
| SM08-026 | 223 | 227 | 225 | 520 | 538 | 529 | 8.8 | 8.9 | 8.8 |
| SM08-027 | 226 | 231 | 228 | 496 | 516 | 505 | 6.7 | 7.2 | 7.0 |
| SM08-028 | 230 | 235 | 232 | 531 | 563 | 542 | 6.8 | 7.4 | 7.2 |
| SM08-029 | 254 | 256 | 255 | 614 | 621 | 617 | 11 | 12 | 11.8 |
| SM08-030 | 193 | 195 | 194 | 442 | 451 | 447 | 11 | 12 | 11.2 |
| SM08-031 | 229 | 233 | 232 | 508 | 516 | 513 | 6.9 | 7.3 | 7.1 |
| SM09-001 | 168 | 170 | 169 | 412 | 424 | 418 | 3.6 | 3.8 | 3.7 |
| SM09-002 | 160 | 162 | 161 | 377 | 390 | 383 | 3.3 | 3.6 | 3.5 |
| SM09-003 | 164 | 165 | 164 | 380 | 391 | 386 | 3.8 | 4.2 | 4.0 |
| SM09-004 | 146 | 148 | 147 | 363 | 373 | 368 | 4.3 | 4.8 | 4.6 |
| SM09-005 | 141 | 144 | 143 | 310 | 320 | 316 | 2.6 | 3.2 | 2.9 |
| SM09-006 | 139 | 144 | 142 | 301 | 308 | 305 | 1.7 | 2.7 | 2.3 |
| SM09-007 | 162 | 164 | 163 | 394 | 399 | 397 | 3.3 | 3.7 | 3.5 |
| SM09-008 | 160 | 163 | 162 | 386 | 395 | 391 | 2.4 | 3 | 2.6 |
| SM09-009 | 149 | 153 | 151 | 364 | 371 | 368 | 3.1 | 3.5 | 3.3 |
| SM09-010 | 144 | 146 | 145 | 341 | 346 | 344 | 2.5 | 3 | 2.7 |

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| SM09-011 | 146 | 148 | 147 | 348 | 354 | 351 | 2.7 | 3.1 | 2.9 |
| SM09-012 | 160 | 162 | 161 | 383 | 392 | 389 | 2.3 | 3 | 2.7 |
| SM09-013 | 143 | 145 | 143 | 330 | 337 | 335 | 3.3 | 3.6 | 3.4 |
| SM09-014 | 140 | 142 | 140 | 316 | 321 | 319 | 1.6 | 2.1 | 1.9 |
| SM09-015 | 139 | 141 | 140 | 313 | 320 | 318 | 1.5 | 2.2 | 1.9 |
| SM09-016 | 140 | 142 | 141 | 300 | 304 | 302 | 1.3 | 1.9 | 1.6 |
| SM09-017 | 139 | 141 | 140 | 316 | 324 | 321 | 3.1 | 3.3 | 3.2 |
| SM09-018 | 141 | 143 | 142 | 315 | 322 | 319 | 1.5 | 2 | 1.7 |
| SM09-019 | 136 | 138 | 136 | 304 | 312 | 309 | 2.3 | 2.9 | 2.6 |
| SM09-020 | 138 | 141 | 139 | 309 | 317 | 313 | 1.8 | 2.7 | 2.5 |
| SM10-001 | 287 | 297 | 292 | 705 | 724 | 714 | 15 | 16 | 15.7 |
| SM10-002 | 225 | 231 | 229 | 526 | 545 | 535 | 8.3 | 8.9 | 8.6 |
| SM10-003 | 248 | 254 | 251 | 552 | 566 | 559 | 7.3 | 8.4 | 7.8 |
| SM10-004 | 236 | 237 | 236 | 528 | 535 | 532 | 7.2 | 7.7 | 7.4 |
| SM10-005 | 236 | 238 | 237 | 527 | 532 | 530 | 6.2 | 7.1 | 6.8 |
| SM10-006 | 324 | 359 | 344 | 757 | 831 | 801 | 13 | 15 | 14 |
| SM10-007 | 290 | 320 | 307 | 694 | 762 | 733 | 12 | 15 | 13.7 |
| SM10-008 | 258 | 286 | 272 | 611 | 675 | 640 | 11 | 13 | 11.7 |
| SM10-009 | 232 | 236 | 233 | 529 | 537 | 533 | 6.9 | 8.4 | 8.1 |
| SM10-010 | 233 | 235 | 234 | 533 | 541 | 536 | 8.1 | 8.4 | 8.3 |
| SM10-011 | 241 | 267 | 256 | 576 | 641 | 608 | 9.7 | 11 | 10.4 |
| SM10-012 | 251 | 270 | 260 | 596 | 644 | 618 | 10 | 12 | 11 |
| SM10-013 | 233 | 237 | 235 | 540 | 553 | 548 | 9 | 9.5 | 9.3 |
| SM10-014A | 244 | 251 | 247 | 573 | 585 | 578 | 9.7 | 10 | 9.9 |
| SM10-015 | 238 | 239 | 238 | 548 | 554 | 550 | 9 | 9.5 | 9.3 |
| SM10-016 | 249 | 253 | 252 | 585 | 591 | 587 | 11 | 12 | 11.7 |
| SM10-017 | 242 | 245 | 243 | 554 | 560 | 557 | 10 | 11 | 10.1 |
| SM10-018 | 236 | 240 | 238 | 534 | 548 | 542 | 8.6 | 9.8 | 9.3 |
| SM10-019 | 247 | 251 | 248 | 558 | 565 | 563 | 8.2 | 9 | 8.6 |
| SM10-020 | 232 | 234 | 233 | 571 | 578 | 574 | 19 | 19 | 19 |
| SM10-021 | 237 | 239 | 238 | 583 | 595 | 591 | 18 | 19 | 18.7 |
| SM10-022 | 239 | 242 | 240 | 548 | 554 | 551 | 9.9 | 11 | 10.4 |

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| SM10-023 | 222 | 234 | 231 | 544 | 565 | 557 | 14 | 15 | 14.7 |
| SM10-024 | 225 | 228 | 227 | 530 | 554 | 545 | 10 | 14 | 12.3 |
| SM10-025 | 223 | 227 | 225 | 525 | 538 | 533 | 10 | 11 | 10.9 |
| SM10-026 | 242 | 246 | 244 | 574 | 582 | 577 | 14 | 15 | 14.3 |
| SM10-027 | 240 | 264 | 254 | 548 | 597 | 576 | 10 | 11 | 10.7 |
| SM10-028A | 232 | 234 | 233 | 603 | 617 | 611 | 27 | 27 | 27 |
| SM10-029A | 262 | 268 | 266 | 601 | 615 | 609 | 13 | 13 | 13 |
| SM10-030 | 233 | 235 | 234 | 524 | 536 | 531 | 7.5 | 7.9 | 7.7 |
| SM10-031 | 235 | 238 | 236 | 544 | 552 | 548 | 8.1 | 8.7 | 8.3 |
| SM10-032 | 236 | 239 | 237 | 534 | 542 | 538 | 6.6 | 7.8 | 7.4 |
| SM11-001 | 162 | 163 | 163 | 404 | 414 | 409 | 5 | 5.6 | 5.2 |
| SM11-002 | 138 | 142 | 141 | 309 | 325 | 321 | 2.9 | 3.4 | 3.2 |
| SM11-003 | 142 | 145 | 144 | 323 | 336 | 328 | 2.1 | 2.5 | 2.3 |
| SM11-004 | 139 | 141 | 140 | 305 | 313 | 309 | 2.1 | 2.5 | 2.3 |
| SM11-005 | 138 | 140 | 139 | 315 | 325 | 321 | 3.8 | 4.9 | 4.1 |
| SM11-006 | 142 | 144 | 143 | 318 | 324 | 322 | 3 | 3.3 | 3.1 |
| SM11-007 | 141 | 143 | 142 | 306 | 312 | 310 | 2.5 | 3 | 2.9 |
| SM11-009 | 151 | 152 | 152 | 305 | 313 | 310 | 1.1 | 1.3 | 1.2 |
| SM11-010 | 156 | 156 | 156 | 319 | 325 | 323 | 1.3 | 2.3 | 1.9 |
| SM11-011 | 146 | 152 | 148 | 344 | 352 | 349 | 2.9 | 3.3 | 3.2 |
| SM11-012 | 143 | 145 | 144 | 325 | 332 | 329 | 2.7 | 3.2 | 2.9 |
| SM11-013 | 141 | 142 | 142 | 292 | 300 | 297 | 1.4 | 1.9 | 1.7 |
| SM11-014 | 137 | 139 | 138 | 290 | 296 | 294 | 1.8 | 2.2 | 2.0 |
| SM11-015 | 137 | 138 | 137 | 302 | 310 | 307 | 2.1 | 2.5 | 2.3 |
| SM11-016 | 142 | 146 | 144 | 301 | 305 | 303 | 1.7 | 2.4 | 2.2 |
| SM11-017 | 142 | 143 | 142 | 292 | 297 | 295 | 2.6 | 3 | 2.8 |
| SM11-018 | 138 | 139 | 139 | 305 | 308 | 306 | 4.6 | 5.4 | 5.1 |
| SM11-019 | 140 | 141 | 141 | 312 | 319 | 315 | 1.6 | 1.8 | 1.7 |
| SM11-020 | 160 | 163 | 162 | 401 | 407 | 405 | 4.7 | 5.7 | 5.3 |
| SM11-022 | 166 | 168 | 167 | 453 | 462 | 457 | 6.9 | 7.2 | 7.1 |
| SM11-023 | 165 | 168 | 167 | 402 | 411 | 406 | 5.6 | 6 | 5.9 |
| SM11-024 | 155 | 156 | 155 | 398 | 403 | 401 | 3.9 | 4.7 | 4.3 |
| SM11-025 | 159 | 160 | 160 | 406 | 411 | 408 | 1.8 | 3.3 | 3.0 |

