

APPENDIX N

Hydraulic Modeling Background

ATTACHMENT N1

Hydraulic Modeling Data

The following information is the data for the Plateau Zone used for the hydraulic model analysis. This information was used during the calibration runs where field pressure data was compared to modeling results. It represents average day demand using well, pump station, valve and tank settings from September 1999. The data is formatted in an EPANet V1.1d structure.

Junctions

Identifier, elevation (ft), demand (gpm), demand pattern

```

1501 580.00 0.000000 1
1502 580.00 0.372000 1
1503 543.00 1.674000 1
1504 551.00 1.116000 1
1505 525.00 3.348000 1
1506 390.00 3.255000 1
1507 400.00 0.372000 1
1508 415.00 0.930000 1
1509 410.00 1.116000 1
1510 425.00 1.953000 1
1511 435.00 1.674000 1
1512 435.00 0.930000 1
1513 375.00 0.000000 1
1514 375.00 0.000000 1
1515 380.00 0.558000 1
1516 380.00 5.208000 1
1517 377.00 0.372000 1
1518 368.00 0.837000 1
1519 390.00 0.000000 1
1520 540.00 0.744000 1
1521 400.00 0.372000 1
1522 390.00 2.604000 1
1523 404.00 6.138000 1
1524 439.00 12.276000 1
1525 455.00 0.930000 1
1526 425.00 3.906000 1
1527 410.00 5.952000 1
1528 425.00 2.046000 1
1529 455.00 1.116000 1
1530 465.00 1.209000 1
1531 457.00 1.395000 1
1532 453.00 6.510000 1
1533 447.00 12.276000 1
1534 455.00 4.278000 1
1535 430.00 4.278000 1
1536 388.00 3.813000 1
1537 425.00 6.138000 1
1538 435.00 1.860000 1
1539 390.00 0.186000 1
1540 365.00 0.000000 1

```

1541 382.00 7.254000 1
1542 374.00 6.138000 1
1543 474.00 3.441000 1
1544 480.00 2.604000 1
1545 454.00 6.138000 1
1546 465.00 4.650000 1
1547 430.00 6.696000 1
1548 473.00 5.394000 1
1549 475.00 4.836000 1
1550 440.00 1.488000 1
1551 485.00 4.836000 1
1552 260.00 21.111000 1
1553 260.00 802.000000 2
1554 90.00 0.465000 1
1555 120.00 0.000000 1
1556 51.00 4.929000 1
1557 52.00 6.231000 1
1558 64.00 2.790000 1
1559 66.00 0.930000 1
1560 70.00 -3344.000000 2
1561 70.00 0.000000 1
1562 75.00 0.000000 1
1563 75.00 0.000000 1
1564 75.00 0.000000 1
1565 68.00 0.651000 1
1566 70.00 1.023000 1
1567 70.00 8.835000 1
1568 74.00 0.930000 1
1569 75.00 0.000000 1
1570 100.00 0.651000 1
1571 50.00 0.372000 1
1572 49.00 12.276000 1
1573 54.00 0.000000 1
1574 54.00 0.000000 1
1575 40.00 0.837000 1
1576 40.00 0.186000 1
1577 516.00 5.766000 1
1578 532.00 2.976000 1
1579 440.00 0.000000 1
1580 500.00 0.000000 1
1581 75.00 5.208000 1
1582 68.00 0.000000 2
1583 75.00 0.000000 2
1584 150.00 2174.000000 2
1585 150.00 0.000000 1
1586 365.00 0.000000 1
1587 430.00 13.206000 1
1588 415.00 1.395000 1
1589 426.00 12.090000 1
1590 420.00 12.090000 1
1591 415.00 0.000000 1
1592 470.00 7.905000 1
1593 450.00 12.927000 1
1594 450.00 15.810000 1
1595 490.00 9.300000 1
1596 500.00 0.000000 1

1597 405.00 1.488000 1
1598 420.00 0.000000 1
1599 420.00 3.720000 1
1600 400.00 0.000000 1
1601 440.00 19.530001 1
1602 480.00 44.639999 1
1603 435.00 6.231000 1
1604 434.00 1.860000 1
1605 435.00 6.510000 1
1606 449.00 0.000000 1
1607 440.00 0.000000 1
1608 375.00 3.720000 1
1609 440.00 4.743000 1
1610 405.00 3.162000 1
1611 400.00 2.232000 1
1612 405.00 2.790000 1
1613 380.00 2.790000 1
1614 364.00 4.092000 1
1615 370.00 4.278000 1
1616 395.00 1.488000 1
1617 352.00 2.511000 1
1618 440.00 0.372000 1
1619 405.00 1.209000 1
1620 450.00 0.558000 1
1621 433.00 7.812000 1
1622 430.00 3.441000 1
1623 430.00 2.511000 1
1624 400.00 10.974000 1
1625 425.00 5.208000 1
1626 450.00 5.208000 1
1627 540.00 0.186000 1
1628 525.00 6.045000 1
1629 540.00 3.906000 1
1630 550.00 1.767000 1
1631 395.00 5.859000 1
1632 415.00 1.302000 1
1633 440.00 0.186000 1
1634 440.00 0.558000 1
1635 430.00 3.720000 1
1636 430.00 3.348000 1
1637 430.00 1.860000 1
1638 430.00 3.348000 1
1639 430.00 2.790000 1
1640 430.00 2.232000 1
1641 430.00 0.930000 1
1642 430.00 1.860000 1
1643 425.00 0.372000 1
1644 402.00 2.418000 1
1645 430.00 2.046000 1
1646 410.00 4.650000 1
1647 425.00 3.162000 1
1648 430.00 1.302000 1
1649 450.00 5.580000 1
1650 450.00 5.022000 1
1651 425.00 3.069000 1
1652 433.00 5.952000 1

1653 425.00 0.372000 1
1654 425.00 6.138000 1
1655 425.00 2.046000 1
1656 430.00 2.976000 1
1657 430.00 1.302000 1
1658 435.00 2.232000 1
1659 440.00 2.604000 1
1660 405.00 2.976000 1
1661 405.00 3.162000 1
1662 415.00 6.138000 1
1663 395.00 3.534000 1
1664 395.00 6.324000 1
1665 395.00 2.976000 1
1666 390.00 7.626000 1
1667 400.00 3.162000 1
1668 355.00 1.488000 1
1669 355.00 0.930000 1
1670 390.00 3.999000 1
1671 420.00 6.696000 1
1672 425.00 1.860000 1
1673 405.00 2.790000 1
1674 430.00 2.604000 1
1675 445.00 3.162000 1
1676 435.00 4.743000 1
1677 430.00 2.325000 1
1678 425.00 1.209000 1
1679 410.00 3.162000 1
1680 375.00 5.022000 1
1681 425.00 3.627000 1
1682 445.00 1.302000 1
1683 440.00 0.558000 1
1684 450.00 0.186000 1
1685 430.00 1.674000 1
1686 415.00 1.860000 1
1687 415.00 4.464000 1
1688 390.00 0.000000 1
1689 350.00 1.674000 1
1690 380.00 0.930000 1
1691 340.00 1.860000 1
1692 389.00 0.930000 1
1693 365.00 1.116000 1
1694 395.00 1.860000 1
1695 375.00 1.860000 1
1696 420.00 4.371000 1
1697 390.00 0.000000 1
1698 530.00 2.604000 1
1699 520.00 0.744000 1
1700 550.00 5.952000 1
1701 530.00 0.000000 1
1702 515.00 2.046000 1
1703 520.00 2.232000 1
1704 520.00 2.976000 1
1705 400.00 1.860000 1
1706 400.00 2.418000 1
1707 375.00 0.930000 1
1708 370.00 1.209000 1

1709 370.00 1.860000 1
1710 390.00 14.973000 1
1711 424.00 4.092000 1
1712 400.00 4.929000 1
1713 416.00 4.278000 1
1714 435.00 5.022000 1
1715 435.00 5.208000 1
1716 433.00 10.695000 1
1717 443.00 3.255000 1
1718 375.00 5.394000 1
1719 380.00 10.230000 1
1720 450.00 3.813000 1
1721 400.00 1.116000 1
1722 435.00 1.116000 1
1723 425.00 0.558000 1
1724 490.00 37.479000 1
1725 390.00 2.883000 1
1726 400.00 2.046000 1
1727 430.00 1.302000 1
1728 395.00 1.302000 1
1729 405.00 1.674000 1
1730 405.00 1.116000 1
1731 385.00 0.000000 1
1732 410.00 0.372000 1
1733 435.00 4.278000 1
1734 400.00 1.488000 1
1735 415.00 5.394000 1
1736 435.00 0.372000 1
1737 425.00 2.232000 1
1738 410.00 1.674000 1
1739 435.00 1.302000 1
1740 435.00 1.116000 1
1741 360.00 2.232000 1
1742 400.00 2.232000 1
1743 355.00 0.000000 1
1744 355.00 0.000000 1
1745 270.00 4.650000 1
1746 270.00 1.860000 1
1747 325.00 1.302000 1
1748 385.00 1.488000 1
1749 380.00 3.813000 1
1750 400.00 2.046000 1
1751 370.00 2.604000 1
1752 375.00 1.674000 1
1753 400.00 1.116000 1
1754 225.00 2.046000 1
1755 155.00 3.534000 1
1756 77.00 8.091000 1
1757 103.00 6.138000 1
1758 118.00 7.254000 1
1759 46.00 4.743000 1
1760 125.00 6.231000 1
1761 205.00 0.744000 1
1762 285.00 1.302000 1
1763 285.00 0.000000 1
1764 250.00 4.278000 1

1765 231.00 1.302000 1
1766 135.00 0.000000 1
1767 130.00 0.000000 1
1768 82.00 3.534000 1
1769 375.00 7.068000 1
1770 375.00 1.953000 1
1771 280.00 0.000000 1
1772 280.00 2.790000 1
1773 280.00 1.302000 1
1774 100.00 1.860000 1
1775 90.00 2.604000 1
1776 90.00 0.930000 1
1777 65.00 0.558000 1
1778 105.00 0.744000 1
1779 95.00 1.860000 1
1780 65.00 6.138000 1
1781 70.00 3.534000 1
1782 90.00 2.418000 1
1783 140.00 1.860000 1
1784 70.00 5.952000 1
1785 59.00 6.417000 1
1786 59.00 3.906000 1
1787 205.00 0.000000 1
1788 205.00 0.000000 1
1789 225.00 0.000000 1
1790 200.00 0.000000 1
1791 200.00 0.000000 1
1792 300.00 0.000000 1
1793 410.00 0.558000 1
1794 445.00 8.370000 1
1795 440.00 3.348000 1
1796 442.00 3.534000 1
1797 460.00 6.510000 1
1798 448.00 5.208000 1
1799 444.00 0.930000 1
1800 452.00 6.045000 1
1801 435.00 3.348000 1
1802 425.00 5.208000 1
1803 416.00 2.604000 1
1804 426.00 2.232000 1
1805 462.00 4.464000 1
1806 475.00 5.208000 1
1807 456.00 6.324000 1
1808 395.00 1.953000 1
1809 403.00 14.322000 1
1810 428.00 8.928000 1
1811 422.00 0.000000 1
1812 407.00 13.764000 1
1813 400.00 0.000000 1
1814 422.00 0.000000 1
1815 427.00 2.046000 1
1816 419.00 2.790000 1
1817 418.00 6.324000 1
1818 419.00 4.650000 1
1819 426.00 4.557000 1
1820 443.00 0.558000 1

1821 447.00 6.510000 1
1822 427.00 10.044000 1
1823 439.00 9.486000 1
1824 441.00 6.882000 1
1825 450.00 1.302000 1
1826 435.00 21.576000 1
1827 432.00 2.232000 1
1828 432.00 2.232000 1
1829 447.00 2.232000 1
1830 400.00 5.208000 1
1831 380.00 6.138000 1
1832 360.00 1.116000 1
1833 400.00 6.324000 1
1834 395.00 0.930000 1
1835 390.00 1.860000 1
1836 370.00 2.976000 1
1837 395.00 0.744000 1
1838 395.00 2.883000 1
1839 440.00 3.348000 1
1840 400.00 3.162000 1
1841 450.00 2.418000 1
1842 380.00 2.139000 1
1843 395.00 1.116000 1
1844 395.00 1.116000 1
1845 385.00 1.860000 1
1846 462.00 1.302000 1
1847 465.00 1.302000 1
1849 430.00 1.674000 1
1850 395.00 1.674000 1
1851 445.00 3.906000 1
1852 435.00 1.674000 1
1853 430.00 2.046000 1
1854 420.00 3.720000 1
1855 420.00 1.674000 1
1856 415.00 3.348000 1
1857 420.00 2.046000 1
1858 430.00 1.116000 1
1859 430.00 26.040001 1
1860 447.00 0.930000 1
1861 440.00 1.116000 1
1862 425.00 1.023000 1
1863 442.00 2.790000 1
1864 450.00 1.395000 1
1865 450.00 3.348000 1
1866 420.00 2.976000 1
1867 420.00 3.720000 1
1868 430.00 2.046000 1
1869 435.00 1.674000 1
1870 440.00 0.000000 1
1871 405.00 0.000000 1
1872 405.00 -369.000000 2
1873 409.00 0.000000 1
1874 425.00 6.324000 1
1875 440.00 3.906000 1
1876 415.00 0.186000 1
1877 427.00 2.046000 1

1878 426.00 3.255000 1
1879 432.00 1.488000 1
1880 456.00 0.558000 1
1881 415.00 43.988998 1
1882 415.00 7.533000 1
1883 470.00 3.534000 1
1884 460.00 11.532000 1
1885 450.00 22.691999 1
1886 416.00 5.580000 1
1887 467.00 4.650000 1
1888 467.00 2.976000 1
1889 470.00 2.604000 1
1890 469.00 5.952000 1
1891 469.00 3.162000 1
1892 471.00 9.114000 1
1893 476.00 2.418000 1
1894 460.00 6.138000 1
1895 457.00 2.418000 1
1896 490.00 8.184000 1
1897 490.00 2.046000 1
1898 510.00 0.186000 1
1899 474.00 2.418000 1
1900 468.00 8.370000 1
1901 454.00 2.418000 1
1902 495.00 0.000000 1
1903 462.00 0.186000 1
1904 460.00 0.930000 1
1905 455.00 8.928000 1
1906 455.00 8.556000 1
1907 454.00 2.790000 1
1908 460.00 0.930000 1
1909 475.00 3.627000 1
1910 460.00 2.418000 1
1911 430.00 2.325000 1
1912 405.00 5.859000 1
1913 510.00 1.674000 1
1914 510.00 1.674000 1
1915 525.00 2.976000 1
1916 480.00 1.116000 1
1917 455.00 2.232000 1
1918 475.00 1.116000 1
1919 495.00 2.790000 1
1920 490.00 1.860000 1
1921 510.00 0.186000 1
1922 413.00 8.835000 1
1923 418.00 4.557000 1
1924 420.00 8.928000 1
1925 445.00 0.744000 1
1926 440.00 3.255000 1
1927 435.00 9.858000 1
1928 415.00 5.115000 1
1929 413.00 1.674000 1
1930 434.00 3.720000 1
1931 442.00 3.534000 1
1932 460.00 2.232000 1
1933 410.00 5.022000 1

1934 460.00 0.930000 1
1935 435.00 5.022000 1
1936 418.00 2.976000 1
1937 410.00 2.046000 1
1938 402.00 1.209000 1
1939 460.00 4.464000 1
1940 410.00 0.000000 1
1941 420.00 10.974000 1
1942 435.00 13.950000 1
1943 420.00 7.161000 1
1944 425.00 4.836000 1
1945 420.00 2.604000 1
1946 465.00 3.720000 1
1947 465.00 0.000000 1
1948 475.00 7.998000 1
1949 460.00 0.465000 1
1950 455.00 2.232000 1
1951 435.00 2.976000 1
1952 475.00 4.836000 1
1953 460.00 2.790000 1
1954 427.00 8.277000 1
1955 450.00 3.906000 1
1956 410.00 0.000000 1
1957 406.00 5.766000 1
1958 440.00 6.696000 1
1959 460.00 3.534000 1
1960 470.00 1.860000 1
1961 475.00 1.674000 1
1962 475.00 0.930000 1
1963 500.00 4.185000 1
1964 480.00 2.604000 1
1965 425.00 1.488000 1
1966 470.00 2.604000 1
1967 355.00 2.604000 1
1968 335.00 2.790000 1
1969 335.00 8.835000 1
1970 340.00 0.000000 1
1971 340.00 0.000000 1
1972 340.00 0.000000 1
1973 370.00 0.000000 1
1974 375.00 0.000000 1
1975 375.00 -656.000000 2
1976 355.00 0.186000 1
1977 355.00 6.696000 1
1978 355.00 0.000000 1
1979 355.00 0.000000 1
1980 355.00 0.000000 1
1981 355.00 8.463000 1
1982 355.00 4.371000 1
1983 355.00 0.372000 1
1984 355.00 0.000000 1
1985 355.00 0.000000 1
1986 355.00 0.000000 1
1987 355.00 0.000000 1
1988 355.00 0.000000 1
1989 360.00 6.324000 1

1990 410.00 0.744000 1
1991 365.00 3.255000 1
1992 360.00 5.952000 1
1993 400.00 6.696000 1
1994 425.00 4.557000 1
1995 355.00 1.488000 1
1996 345.00 0.558000 1
1997 350.00 0.744000 1
1998 356.00 0.744000 1
1999 325.00 2.604000 1
2000 325.00 1.302000 1
2001 335.00 0.930000 1
2002 325.00 1.488000 1
2003 295.00 1.302000 1
2004 340.00 0.558000 1
2005 325.00 2.232000 1
2006 325.00 2.790000 1
2007 375.00 1.116000 1
2008 385.00 2.604000 1
2009 355.00 7.161000 1
2010 340.00 2.046000 1
2011 340.00 1.488000 1
2012 375.00 0.558000 1
2013 475.00 3.906000 1
2014 430.00 1.488000 1
2015 410.00 0.000000 1
2016 400.00 0.000000 1
2017 375.00 1.302000 1
2018 545.00 0.000000 1
2019 510.00 1.674000 1
2020 512.00 4.185000 1
2021 402.00 1.488000 1
2022 450.00 1.860000 1
2023 375.00 3.534000 1
2024 510.00 1.674000 1
2025 510.00 0.000000 1
2026 510.00 0.744000 1
2027 575.00 5.208000 1
2028 600.00 4.836000 1
2029 605.00 2.604000 1
2030 575.00 1.860000 1
2031 510.00 4.464000 1
2032 530.00 0.000000 1
2033 545.00 -250.000000 2
2034 530.00 0.000000 1
2035 517.00 0.000000 1
2036 505.00 3.348000 1
2037 434.00 7.068000 1
2038 435.00 2.790000 1
2039 438.00 3.906000 1
2040 455.00 0.000000 1
2041 425.00 0.558000 1
2042 415.00 1.488000 1
2043 415.00 0.000000 1
2044 610.00 3.906000 1
2045 610.00 3.348000 1

2046 600.00 3.348000 1
2047 580.00 4.278000 1
2048 545.00 3.534000 1
2049 550.00 2.046000 1
2050 600.00 4.650000 1
2051 597.00 0.930000 1
2052 595.00 0.930000 1
2053 585.00 3.348000 1
2054 565.00 5.022000 1
2055 534.00 10.044000 1
2056 460.00 2.046000 1
2057 380.00 0.558000 1
2058 562.00 6.696000 1
2059 538.00 8.184000 1
2060 583.00 5.022000 1
2061 547.00 2.976000 1
2062 522.00 2.604000 1
2063 490.00 2.976000 1
2064 444.00 0.837000 1
2065 435.00 0.000000 1
2066 435.00 0.000000 1
2067 435.00 0.000000 1
2068 430.00 3.534000 1
2069 425.00 3.534000 1
2070 425.00 4.278000 1
2071 420.00 2.046000 1
2072 420.00 4.464000 1
2073 420.00 0.000000 1
2074 375.00 2.418000 1
2075 390.00 3.534000 1
2076 395.00 5.208000 1
2077 405.00 1.116000 1
2078 410.00 2.790000 1
2079 415.00 3.162000 1
2080 435.00 8.370000 1
2081 450.00 2.046000 1
2082 420.00 0.000000 1
2083 420.00 0.000000 1
2084 420.00 0.000000 1
2085 425.00 8.556000 1
2086 410.00 6.138000 1
2087 435.00 5.766000 1
2088 370.00 6.696000 1
2089 430.00 0.930000 1
2090 450.00 2.418000 1
2091 445.00 1.674000 1
2092 400.00 15.252000 1
2093 345.00 3.534000 1
2094 355.00 1.674000 1
2095 340.00 0.000000 1
2096 340.00 0.000000 1
2097 335.00 11.346000 1
2098 300.00 1.116000 1
2099 60.00 2.604000 1
2100 60.00 1.860000 1
2101 60.00 2.604000 1

2102 60.00 2.046000 1
2103 80.00 1.860000 1
2104 80.00 3.534000 1
2105 80.00 1.488000 1
2106 50.00 5.487000 1
2107 95.00 0.000000 1
2108 100.00 1.860000 1
2109 200.00 1.860000 1
2110 205.00 1.860000 1
2111 270.00 2.232000 1
2112 300.00 1.116000 1
2113 240.00 1.302000 1
2114 235.00 0.000000 1
2115 175.00 5.394000 1
2116 200.00 1.674000 1
2117 200.00 2.790000 1
2118 270.00 1.488000 1
2119 300.00 0.186000 1
2120 315.00 0.558000 1
2121 350.00 2.418000 1
2122 400.00 1.488000 1
2123 410.00 1.302000 1
2124 375.00 1.116000 1
2125 465.00 3.720000 1
2126 200.00 1.860000 1
2127 200.00 0.000000 1
2128 240.00 5.766000 1
2129 245.00 1.488000 1
2130 245.00 4.092000 1
2131 275.00 0.000000 1
2132 235.00 0.000000 1
2133 235.00 1.860000 1
2134 310.00 4.464000 1
2135 330.00 3.534000 1
2136 350.00 3.348000 1
2137 360.00 4.371000 1
2138 185.00 0.000000 1
2139 245.00 6.138000 1
2140 375.00 1.116000 1
2141 375.00 1.674000 1
2142 550.00 4.650000 1
2143 585.00 5.022000 1
2144 585.00 0.000000 1
2145 585.00 4.278000 1
2146 583.00 4.278000 1
2147 583.00 3.534000 1
2148 577.00 2.976000 1
2149 575.00 1.116000 1
2150 573.00 2.883000 1
2151 550.00 1.302000 1
2152 420.00 3.162000 1
2153 420.00 0.000000 1
2154 563.00 1.488000 1
2155 450.00 0.744000 1
2156 510.00 0.372000 1
2157 400.00 2.046000 1

2158 350.00 0.558000 1
2159 270.00 0.000000 1
2160 345.00 1.488000 1
2161 275.00 0.000000 1
2162 370.00 2.418000 1
2163 340.00 2.418000 1
2164 340.00 0.930000 1
2165 330.00 3.906000 1
2166 475.00 0.000000 1
2167 465.00 0.000000 1
2168 435.00 3.162000 1
2169 370.00 1.674000 1
2170 365.00 0.000000 1
2171 365.00 8.556000 1
2172 350.00 1.674000 1
2173 410.00 1.488000 1
2174 290.00 5.208000 1
2175 375.00 0.744000 1
2176 510.00 0.930000 1
2177 525.00 2.976000 1
2178 525.00 2.325000 1
2179 480.00 1.488000 1
2180 465.00 2.046000 1
2181 455.00 9.765000 1
2182 460.00 0.465000 1
2183 510.00 5.208000 1
2184 488.00 2.790000 1
2185 465.00 5.766000 1
2186 483.00 4.278000 1
2187 445.00 0.930000 1
2188 440.00 7.812000 1
2189 405.00 4.278000 1
2190 190.00 0.000000 1
2192 190.00 0.000000 1
2193 190.00 0.000000 1
2195 200.00 0.000000 1
2197 200.00 0.000000 1
2199 365.00 0.000000 1
2200 365.00 0.000000 1
2202 425.00 0.930000 1
2203 425.00 0.000000 1
2204 434.00 0.000000 1
2207 375.00 0.000000 1
2208 375.00 0.000000 1
2211 300.00 0.000000 1
2213 300.00 0.000000 1
2214 82.00 3.534000 1
2216 140.00 0.000000 1
2217 140.00 0.000000 1
2220 355.00 0.000000 1
2221 355.00 0.000000 1
2224 420.00 0.000000 1
2226 400.00 0.000000 1
2228 435.00 0.000000 1
2230 435.00 0.000000 1
2232 355.50 0.000000 1

2234 355.00 0.000000 1
2236 355.00 0.000000 1
2237 355.00 0.000000 1
2240 355.00 0.000000 1
2242 355.00 0.000000 1
2244 347.00 0.000000 1
2245 347.00 0.000000 1
2248 420.00 0.000000 1
2251 175.00 0.000000 1
2252 175.00 5.022000 1
2253 270.00 0.000000 1
2255 265.00 0.000000 1
2257 265.00 0.000000 1
2259 195.00 0.000000 1
2261 195.00 0.000000 1
2264 235.00 0.000000 1
2265 235.00 0.000000 1
2268 365.00 0.000000 1
2270 365.00 0.000000 1
2271 150.00 0.558000 1
2272 150.00 2.232000 1
2273 212.00 2.976000 1
2274 212.00 2.046000 1
2276 212.00 0.000000 1
2278 212.00 0.000000 1
2279 278.00 3.162000 1
2280 509.00 2.418000 1
2281 380.00 0.186000 1
2284 150.00 0.000000 1
2286 150.00 0.000000 1
2287 355.00 2.139000 1
2288 355.00 0.000000 1
2289 355.00 7.905000 1
2290 355.00 2.325000 1
2291 355.00 0.000000 1
2292 355.00 0.930000 1
2293 350.00 0.000000 1
2294 350.00 0.000000 1
2295 351.00 0.000000 1
2296 355.00 12.648000 1
2297 355.00 6.324000 1
2299 355.00 0.000000 1
2301 355.00 0.000000 1
2302 355.00 5.580000 1
2303 370.00 0.000000 1
2304 370.00 0.000000 1
2305 446.00 1.395000 1
2306 445.00 0.000000 1
2307 430.00 5.952000 1
2309 423.00 5.580000 1
2311 370.00 0.000000 1
2313 370.00 0.000000 1
2314 245.00 0.186000 1
2315 235.00 4.836000 1
2316 310.00 3.162000 1
2317 175.00 1.116000 1

2318 245.00 0.000000 1
2320 245.00 0.000000 1
2322 245.00 0.000000 1
2323 485.00 4.278000 1
2324 279.00 3.348000 1
2325 449.00 13.020000 1
2326 450.00 6.510000 1
2327 450.00 5.580000 1
2328 420.00 0.000000 1
2329 420.00 1.488000 1
2330 420.00 8.835000 1
2331 420.00 -560.000000 2
2332 350.00 0.000000 2
2333 350.00 6.324000 1
2334 445.00 1.860000 1
2335 450.00 5.022000 1
2336 420.00 6.882000 1
2337 420.00 0.000000 1
2338 395.00 9.672000 1
2339 380.00 0.930000 1
2340 430.00 1.860000 1
2341 410.00 1.860000 1
2342 446.00 4.092000 1
2343 543.00 9.300000 1
2344 555.00 3.162000 1
2345 573.00 5.022000 1
2346 595.00 2.604000 1
2347 380.00 11.625000 1
2348 420.00 0.000000 1
2349 395.00 0.930000 1
2350 370.00 0.000000 1
2351 420.00 3.906000 1
2352 465.00 0.000000 1
2353 490.00 0.000000 1
2354 515.00 2.604000 1
2355 565.00 6.324000 1
2356 355.00 4.743000 1
2357 400.00 9.300000 1
2358 415.00 0.372000 1
2359 420.00 0.000000 1
2360 480.00 21.948000 1
2361 475.00 15.531000 1
2362 435.00 9.486000 1
2363 470.00 5.952000 1
2364 480.00 9.765000 1
2365 480.00 13.950000 1
2366 480.00 3.906000 1
2367 475.00 6.603000 1
2368 480.00 6.324000 1
2369 440.00 5.115000 1
2370 450.00 5.580000 1
2371 455.00 0.000000 1
2372 460.00 0.000000 1
2373 460.00 0.000000 1
2374 460.00 6.138000 1
2375 455.00 0.000000 1

2376 430.00 5.394000 1
2377 460.00 3.162000 1
2378 420.00 2.790000 1
2379 450.00 2.325000 1
2380 435.00 4.092000 1
2381 455.00 3.534000 1
2382 465.00 0.930000 1
2383 430.00 13.857000 1
2384 420.00 0.558000 1
2385 410.00 1.860000 1
2386 510.00 1.302000 1
2387 355.00 1.674000 1
2388 340.00 0.930000 1
2389 340.00 0.000000 1
2390 355.00 0.000000 1
2391 170.00 0.000000 1
2392 170.00 0.000000 1
2393 175.00 1.767000 1
2394 175.00 0.558000 1
2395 180.00 0.000000 1
2398 180.00 0.000000 1
2403 250.00 0.000000 1
2404 260.00 0.000000 1
2409 260.00 0.000000 1
2410 370.00 2.232000 1
2411 375.00 1.488000 1
2412 375.00 0.000000 1
2414 375.00 0.000000 1
2415 350.00 0.000000 1
2416 380.00 0.000000 1
2417 300.00 0.000000 1
2418 355.00 0.000000 1
2419 385.00 0.000000 1
2420 115.00 0.000000 1
2421 305.00 0.000000 1
2422 110.00 0.000000 1
2423 110.00 0.000000 1
2424 235.00 0.000000 1
2425 285.00 0.000000 1
2426 380.00 0.000000 1
2427 475.00 0.000000 1
2428 340.00 0.000000 1
2429 380.00 0.000000 1
2430 475.00 0.000000 1
2437 95.00 0.000000 1
2440 280.00 0.000000 1
2441 280.00 0.000000 1
2444 410.00 0.000000 1
2446 410.00 0.000000 1
2447 365.00 0.000000 1
2450 170.00 0.000000 1
2452 170.00 0.000000 1
2453 125.00 0.000000 1
2454 210.00 0.000000 1
2456 450.00 0.000000 1
2457 500.00 0.000000 1

2458 490.00 0.000000 2
 2461 260.00 -802.000000 2
 2462 150.00 -2174.000000 2
 2826 440.00 0.000000 1
 2827 485.00 0.000000 1
 2829 420.00 0.000000 1
 2845 450.00 0.000000 1
 2940 450.00 0.000000 1
 2986 520.00 0.000000 1
 2989 430.00 0.000000 1
 2992 430.00 0.000000 1
 2998 480.00 0.000000 1
 3000 455.00 0.000000 1

Tanks

Identifier, water surface elevation (ft)

2501 645.50
 2504 467.00
 2506 641.50
 2508 682.30
 2510 287.20

Pipes

Identifier, Upstream node identifier, Downstream node identifier, diameter (in), C-factor, secondary id

1 2501 1501 308.00 24.00 140.000000 ; 20381
 2 1501 1502 279.00 16.00 140.000000 ; 20371
 3 1502 1503 417.00 16.00 140.000000 ; 20372
 4 1503 1504 509.00 8.00 140.000000 ; 20341
 5 1503 1505 231.00 16.00 140.000000 ; 20362
 6 1505 1506 1415.00 16.00 140.000000 ; 20361
 7 1506 1507 952.00 12.00 140.000000 ; 19402
 8 1507 1508 1106.00 16.00 140.000000 ; 20501
 9 1508 1509 552.00 16.00 140.000000 ; 19751
 10 1509 1511 2938.00 8.00 140.000000 ; 19752
 11 1511 1510 1063.00 8.00 140.000000 ; 19801
 12 1510 1512 983.00 8.00 140.000000 ; 19851
 13 1512 1513 1163.00 12.00 140.000000 ; 19901
 14 1513 1514 66.00 8.00 140.000000 ; 19831
 15 1513 1516 221.00 12.00 140.000000 ; 19812
 16 1516 1517 939.00 12.00 140.000000 ; 19822
 17 1517 1518 313.00 8.00 140.000000 ; 19842
 18 1517 1519 443.00 12.00 140.000000 ; 19921
 19 1519 1520 1213.00 8.00 140.000000 ; 19843
 20 1519 1521 400.00 12.00 140.000000 ; 19841
 21 1506 1522 820.00 8.00 140.000000 ; 19351
 22 1522 1523 279.00 8.00 140.000000 ; 19301
 23 1523 1524 1130.00 8.00 140.000000 ; 19272
 24 1525 1526 244.00 8.00 140.000000 ; 19461
 25 1526 1527 394.00 8.00 140.000000 ; 19451
 26 1527 1522 818.00 8.00 140.000000 ; 19352
 27 1509 1528 331.00 12.00 140.000000 ; 19701
 28 1528 1529 819.00 12.00 140.000000 ; 19651
 29 1529 1530 775.00 12.00 140.000000 ; 19602

30 1530 1531 1686.00 12.00 140.000000 ; 19601
31 1531 1532 643.00 12.00 140.000000 ; 18901
32 1532 1533 967.00 8.00 140.000000 ; 18851
33 1524 1534 605.00 8.00 140.000000 ; 19271
34 1534 1525 303.00 8.00 140.000000 ; 19552
35 1534 1533 1858.00 8.00 140.000000 ; 19551
36 1524 1535 585.00 8.00 140.000000 ; 19261
37 1535 1536 701.00 8.00 140.000000 ; 19251
38 1536 1537 420.00 8.00 140.000000 ; 19211
39 1537 1538 262.00 8.00 140.000000 ; 19201
40 1506 1539 763.00 12.00 140.000000 ; 19401
41 1539 1540 1552.00 12.00 140.000000 ; 17501
42 1540 1541 369.00 12.00 140.000000 ; 17502
43 1541 1542 268.00 8.00 140.000000 ; 17702
44 1542 1543 700.00 8.00 140.000000 ; 17711
45 1543 1544 762.00 8.00 140.000000 ; 17751
46 1532 1545 400.00 12.00 140.000000 ; 18801
47 1545 1533 1004.00 8.00 140.000000 ; 18802
48 1545 1546 467.00 12.00 140.000000 ; 18751
49 1546 1547 888.00 8.00 140.000000 ; 18711
50 1547 1548 672.00 8.00 140.000000 ; 18702
51 1548 1546 458.00 12.00 140.000000 ; 18701
52 1548 1549 220.00 8.00 140.000000 ; 18601
53 1531 1550 1609.00 8.00 140.000000 ; 19001
54 1507 1551 2928.00 12.00 140.000000 ; 20301
55 1554 1555 753.00 24.00 140.000000 ; 12251
56 1555 1556 541.00 24.00 140.000000 ; 12202
57 1557 1558 2923.00 8.00 140.000000 ; 12452
58 1558 1556 2249.00 16.00 140.000000 ; 12451
59 1556 1557 587.00 12.00 140.000000 ; 12203
60 1558 1559 984.00 16.00 140.000000 ; 12501
61 1560 1561 402.00 16.00 140.000000 ; 12661
62 1561 1562 2489.00 24.00 140.000000 ; 12651
64 1563 1564 1721.00 30.00 140.000000 ; 12901
65 1564 1565 386.00 30.00 140.000000 ; 12811
66 1565 1566 116.00 24.00 140.000000 ; 12552
67 1566 1567 512.00 12.00 140.000000 ; 12601
68 1565 1568 517.00 12.00 140.000000 ; 12621
69 1568 1569 1131.00 12.00 140.000000 ; 12803
70 1568 1570 581.00 8.00 140.000000 ; 12801
71 1559 1566 306.00 24.00 140.000000 ; 12551
72 1556 1571 1843.00 16.00 140.000000 ; 12201
73 1571 1572 201.00 12.00 140.000000 ; 12002
74 1572 1573 477.00 12.00 140.000000 ; 12011
75 1573 1574 729.00 12.00 140.000000 ; 12021
76 1574 1572 1497.00 8.00 140.000000 ; 12051
77 1571 1575 3513.00 16.00 140.000000 ; 12001
78 1575 1576 1298.00 12.00 140.000000 ; 11851
79 1551 1577 384.00 12.00 140.000000 ; 20291
80 1577 1578 808.00 12.00 140.000000 ; 20261
81 1578 1579 566.00 12.00 140.000000 ; 20251
82 1567 1581 1185.00 12.00 140.000000 ; 12602
84 1564 1568 125.00 12.00 140.000000 ; 12802
85 1563 1583 120.00 24.00 140.000000 ; 12911
86 1576 1584 1604.00 12.00 140.000000 ; 11801
87 1588 1589 309.00 16.00 140.000000 ; 11051

88 1589 1587 1096.00 16.00 140.000000 ; 11101
89 1586 1590 693.00 8.00 140.000000 ; 11602
90 1590 1591 194.00 8.00 140.000000 ; 11552
91 1591 1592 709.00 8.00 140.000000 ; 11001
92 1592 1593 486.00 8.00 140.000000 ; 10901
93 1593 1587 321.00 8.00 140.000000 ; 11102
94 1593 3000 1477.00 8.00 140.000000 ; 10812
95 1594 1588 213.00 8.00 140.000000 ; 10802
96 1594 1595 871.00 8.00 140.000000 ; 10811
97 1595 1596 869.00 8.00 140.000000 ; 10851
98 1596 1580 146.00 12.00 140.000000 ; 10711
99 1596 1597 933.00 16.00 140.000000 ; 10751
100 1597 1588 778.00 16.00 140.000000 ; 10801
101 1580 1598 1733.00 12.00 140.000000 ; 10701
102 1598 1599 1367.00 8.00 140.000000 ; 10602
103 1599 1600 367.00 12.00 140.000000 ; 10502
104 1600 1598 467.00 12.00 140.000000 ; 10601
105 1599 1601 443.00 12.00 140.000000 ; 10511
106 1601 1599 568.00 8.00 140.000000 ; 10512
107 1601 1602 473.00 12.00 140.000000 ; 10521
108 1603 1604 620.00 12.00 140.000000 ; 8901
109 1606 1607 481.00 8.00 140.000000 ; 16701
110 1607 1605 653.00 8.00 140.000000 ; 16751
111 1605 1608 467.00 12.00 140.000000 ; 16752
112 1608 1609 673.00 8.00 140.000000 ; 16851
113 1609 1610 1234.00 8.00 140.000000 ; 16901
114 1610 1611 461.00 8.00 140.000000 ; 16951
115 1611 1612 823.00 8.00 140.000000 ; 17001
116 1612 1598 246.00 8.00 140.000000 ; 10603
117 1612 1613 658.00 8.00 140.000000 ; 17002
118 1613 1614 787.00 8.00 140.000000 ; 17011
119 1614 1615 1108.00 8.00 140.000000 ; 17051
120 1602 2998 1155.00 12.00 140.000000 ; 10951
121 1590 1616 756.00 8.00 140.000000 ; 11551
122 1611 1615 855.00 8.00 140.000000 ; 16952
123 1615 1617 1410.00 8.00 140.000000 ; 17101
124 1600 1619 1125.00 12.00 140.000000 ; 10501
125 1619 1603 1068.00 12.00 140.000000 ; 9001
126 1603 1620 670.00 12.00 140.000000 ; 9002
127 1620 1618 322.00 12.00 140.000000 ; 9041
128 1619 1620 1728.00 8.00 140.000000 ; 9042
129 1604 1621 175.00 12.00 140.000000 ; 8821
130 1621 1622 169.00 12.00 140.000000 ; 8801
131 1622 1623 203.00 12.00 140.000000 ; 8751
132 1623 1624 1511.00 12.00 140.000000 ; 13052
133 1625 1626 303.00 12.00 140.000000 ; 13001
134 1626 1627 1351.00 12.00 140.000000 ; 6401
135 1627 1628 449.00 6.00 140.000000 ; 6402
136 1627 1629 236.00 12.00 140.000000 ; 6352
137 1629 2506 417.00 12.00 140.000000 ; 6351
138 1629 1630 1139.00 12.00 140.000000 ; 6261
139 1623 1631 735.00 8.00 140.000000 ; 8752
140 1631 1632 1020.00 8.00 140.000000 ; 9251
141 1632 1633 471.00 8.00 140.000000 ; 9102
142 1633 1618 331.00 12.00 140.000000 ; 9051
143 1618 1634 1160.00 2.00 150.000000 ; 9052

144 1633 1635 346.00 12.00 140.000000 ; 9101
145 1635 1636 975.00 12.00 140.000000 ; 9151
146 1636 1637 322.00 6.00 140.000000 ; 9201
147 1637 1638 726.00 6.00 140.000000 ; 11272
148 1638 1639 388.00 8.00 140.000000 ; 11301
149 1639 1640 384.00 6.00 140.000000 ; 11311
150 1640 1641 296.00 6.00 140.000000 ; 11321
151 1641 1642 290.00 8.00 140.000000 ; 11351
152 1642 1637 575.00 8.00 140.000000 ; 11291
153 1641 1643 283.00 8.00 140.000000 ; 11361
154 1643 1644 514.00 8.00 140.000000 ; 11371
155 1644 1645 554.00 8.00 140.000000 ; 11501
156 1645 1616 580.00 8.00 140.000000 ; 11511
157 1644 1646 653.00 8.00 140.000000 ; 11372
158 1646 1647 502.00 8.00 140.000000 ; 11381
159 1647 1648 314.00 8.00 140.000000 ; 11391
160 1648 1649 645.00 8.00 140.000000 ; 11402
161 1649 1650 424.00 8.00 140.000000 ; 9832
162 1650 1651 874.00 8.00 140.000000 ; 9831
163 1651 1652 349.00 8.00 140.000000 ; 9802
164 1652 1649 899.00 8.00 140.000000 ; 9821
165 1652 1653 678.00 8.00 140.000000 ; 9602
166 1653 1654 479.00 8.00 140.000000 ; 9561
167 1654 1655 836.00 8.00 140.000000 ; 9551
168 1655 1656 346.00 8.00 140.000000 ; 11251
169 1656 1657 211.00 8.00 140.000000 ; 11261
170 1657 1648 521.00 8.00 140.000000 ; 11401
171 1657 1658 489.00 8.00 140.000000 ; 11271
172 1658 1642 262.00 8.00 140.000000 ; 11281
173 1658 1659 522.00 8.00 140.000000 ; 9211
174 1655 1660 813.00 8.00 140.000000 ; 9501
175 1660 1661 378.00 8.00 140.000000 ; 9451
176 1661 1662 893.00 8.00 140.000000 ; 9452
177 1662 1663 660.00 8.00 140.000000 ; 9402
178 1663 1661 370.00 8.00 140.000000 ; 9401
179 1663 1664 1143.00 8.00 140.000000 ; 9351
180 1664 1632 1283.00 8.00 140.000000 ; 9252
181 1653 1666 868.00 8.00 140.000000 ; 9601
182 1666 1665 1332.00 8.00 140.000000 ; 9752
183 1665 1666 412.00 8.00 140.000000 ; 9751
184 1665 1667 299.00 8.00 140.000000 ; 9701
185 1667 1668 1053.00 8.00 140.000000 ; 9651
187 1669 1670 1291.00 12.00 140.000000 ; 6951
188 1626 1671 1653.00 12.00 140.000000 ; 6451
189 1671 1672 299.00 12.00 140.000000 ; 6461
190 1672 1673 1238.00 4.00 140.000000 ; 6472
191 1673 1674 1059.00 4.00 140.000000 ; 6501
192 1675 1676 1122.00 12.00 140.000000 ; 6481
193 1676 1672 726.00 12.00 140.000000 ; 6471
194 1677 1678 481.00 8.00 140.000000 ; 6661
195 1678 1679 337.00 8.00 140.000000 ; 6651
196 1679 1680 678.00 6.00 140.000000 ; 6601
197 1680 1681 696.00 6.00 140.000000 ; 6551
198 1681 1682 365.00 6.00 140.000000 ; 6542
199 1682 1683 166.00 12.00 140.000000 ; 6543
200 1683 1675 186.00 12.00 140.000000 ; 6561

201 1683 1684 609.00 8.00 140.000000 ; 6532
202 1684 1685 429.00 6.00 140.000000 ; 6531
203 1685 1674 234.00 6.00 140.000000 ; 6521
204 1674 1675 904.00 6.00 140.000000 ; 6491
205 1685 1686 359.00 8.00 140.000000 ; 6971
206 1686 1687 319.00 8.00 140.000000 ; 6961
207 1687 1669 1068.00 8.00 140.000000 ; 6952
208 1682 1688 1008.00 12.00 140.000000 ; 6911
209 1688 1670 164.00 12.00 140.000000 ; 6901
210 1670 1689 1675.00 8.00 140.000000 ; 6902
211 1689 1690 454.00 8.00 140.000000 ; 6801
212 1690 1691 1719.00 8.00 140.000000 ; 6751
213 1691 1677 1871.00 8.00 140.000000 ; 6701
214 1690 1692 1563.00 8.00 140.000000 ; 6752
215 1692 1693 681.00 8.00 140.000000 ; 6001
216 1693 1694 1337.00 8.00 140.000000 ; 6011
217 1694 1695 794.00 8.00 140.000000 ; 6021
218 1695 1696 1446.00 8.00 140.000000 ; 6031
219 1617 1697 1568.00 8.00 140.000000 ; 17151
220 1697 1540 860.00 12.00 140.000000 ; 17251
221 1630 1698 928.00 12.00 140.000000 ; 6252
222 1698 1699 1027.00 12.00 140.000000 ; 6251
223 1630 1700 1049.00 12.00 140.000000 ; 6271
224 1700 1699 633.00 12.00 140.000000 ; 6272
225 1700 1701 646.00 8.00 140.000000 ; 6273
226 1701 1702 188.00 8.00 140.000000 ; 13561
227 1702 1703 361.00 8.00 140.000000 ; 13501
228 1703 1704 336.00 8.00 140.000000 ; 13451
229 1704 1705 908.00 8.00 140.000000 ; 13401
230 1705 1706 691.00 8.00 140.000000 ; 13351
231 1706 1707 394.00 8.00 140.000000 ; 13202
232 1707 1708 1479.00 8.00 140.000000 ; 13152
233 1708 1709 593.00 8.00 140.000000 ; 13151
234 1709 1710 1811.00 8.00 140.000000 ; 13101
235 1710 1624 272.00 8.00 140.000000 ; 13031
236 1710 1712 986.00 8.00 140.000000 ; 13041
237 1712 1713 290.00 8.00 140.000000 ; 13061
238 1713 1711 270.00 8.00 140.000000 ; 13071
239 1709 1714 1544.00 8.00 140.000000 ; 13102
240 1714 1715 528.00 8.00 140.000000 ; 13121
241 1714 1716 841.00 8.00 140.000000 ; 13111
242 1716 1717 210.00 12.00 140.000000 ; 13091
243 1717 1711 909.00 8.00 140.000000 ; 13082
244 1716 1718 1507.00 12.00 140.000000 ; 16742
245 1718 1605 823.00 12.00 140.000000 ; 16741
246 1587 1719 439.00 16.00 140.000000 ; 11151
247 1719 1591 771.00 8.00 140.000000 ; 11153
248 1719 1589 1455.00 8.00 140.000000 ; 11152
249 1586 1719 194.00 16.00 140.000000 ; 11601
250 1604 1720 636.00 8.00 140.000000 ; 8902
251 1720 1606 447.00 8.00 140.000000 ; 16711
252 1720 1621 963.00 8.00 140.000000 ; 8921
253 1625 1721 436.00 12.00 140.000000 ; 13011
254 1721 1624 524.00 12.00 140.000000 ; 13051
255 1677 1722 609.00 8.00 140.000000 ; 6671
256 1722 1676 442.00 2.00 150.000000 ; 6681

257 1699 1723 944.00 12.00 140.000000 ; 6281
258 1723 1724 1300.00 12.00 140.000000 ; 6301
259 1668 1725 1346.00 12.00 140.000000 ; 6953
260 1725 1726 300.00 12.00 140.000000 ; 7001
261 1726 1727 757.00 12.00 140.000000 ; 7052
262 1727 1728 227.00 12.00 140.000000 ; 7071
263 1728 1729 664.00 6.00 140.000000 ; 7102
264 1729 1730 454.00 6.00 140.000000 ; 10002
265 1729 1731 1350.00 6.00 140.000000 ; 10001
266 1731 1732 1198.00 8.00 140.000000 ; 9901
267 1732 1733 594.00 8.00 140.000000 ; 9851
268 1733 1652 1700.00 8.00 140.000000 ; 9801
269 1728 1735 1374.00 12.00 140.000000 ; 7101
270 1735 1736 323.00 8.00 140.000000 ; 7152
271 1736 1737 299.00 6.00 140.000000 ; 7172
272 1737 1738 1086.00 6.00 140.000000 ; 7222
273 1738 1739 308.00 8.00 140.000000 ; 7211
274 1739 1740 307.00 8.00 140.000000 ; 7201
275 1740 1736 263.00 8.00 140.000000 ; 7171
276 1740 1741 837.00 8.00 140.000000 ; 7202
277 1741 1742 621.00 8.00 140.000000 ; 7402
278 1742 1739 799.00 8.00 140.000000 ; 7212
279 1742 1743 342.00 8.00 140.000000 ; 7401
280 1744 1745 1245.00 8.00 140.000000 ; 7463
281 1745 1746 313.00 8.00 140.000000 ; 7502
282 1741 1747 806.00 8.00 140.000000 ; 7411
283 1738 1748 525.00 8.00 140.000000 ; 7221
284 1748 1749 1418.00 8.00 140.000000 ; 7231
285 1748 1750 277.00 8.00 140.000000 ; 7232
286 1750 1751 349.00 8.00 140.000000 ; 7301
287 1726 1752 802.00 8.00 140.000000 ; 7051
288 1727 1753 1271.00 8.00 140.000000 ; 7072
289 1745 1754 280.00 8.00 140.000000 ; 7501
290 1754 1755 559.00 8.00 140.000000 ; 7551
291 1755 1756 2317.00 8.00 140.000000 ; 8151
292 1756 1757 1896.00 8.00 140.000000 ; 8251
293 1757 1758 1664.00 8.00 140.000000 ; 8202
294 1758 1755 664.00 8.00 140.000000 ; 8201
295 1756 1759 2480.00 8.00 140.000000 ; 8001
296 1759 1760 1300.00 8.00 140.000000 ; 7852
297 1756 1761 955.00 8.00 140.000000 ; 8051
298 1735 1762 1285.00 12.00 140.000000 ; 7151
299 1763 1764 483.00 12.00 140.000000 ; 7602
300 1764 1766 1176.00 12.00 140.000000 ; 7601
301 1767 1768 666.00 12.00 140.000000 ; 7653
302 1735 1769 1555.00 6.00 140.000000 ; 7153
303 1770 1771 426.00 6.00 140.000000 ; 8303
304 1772 1773 224.00 6.00 140.000000 ; 8404
305 1774 1775 364.00 6.00 140.000000 ; 8511
306 1774 1776 107.00 6.00 140.000000 ; 8451
307 1776 1777 218.00 8.00 140.000000 ; 8501
308 1776 1778 139.00 6.00 140.000000 ; 8502
309 1778 1779 644.00 6.00 140.000000 ; 8521
310 1779 1780 315.00 8.00 140.000000 ; 8652
311 1780 1777 510.00 8.00 140.000000 ; 8601
312 1777 1768 1148.00 8.00 140.000000 ; 7641

313 1780 1781 2285.00 8.00 140.000000 ; 8651
314 1781 1782 382.00 8.00 140.000000 ; 10202
315 1782 1783 644.00 8.00 140.000000 ; 10211
316 1781 1784 1289.00 8.00 140.000000 ; 10201
317 1784 1785 1116.00 8.00 140.000000 ; 10301
318 1785 1786 1647.00 8.00 140.000000 ; 10151
319 1786 1576 746.00 8.00 140.000000 ; 11802
320 1786 1787 1011.00 8.00 140.000000 ; 10143
321 1789 1790 532.00 8.00 140.000000 ; 10122
322 1791 1785 1526.00 8.00 140.000000 ; 10113
323 1789 1792 1874.00 8.00 140.000000 ; 10083
324 1793 1651 732.00 8.00 140.000000 ; 9811
325 1541 1794 1139.00 8.00 140.000000 ; 17703
326 1794 1795 800.00 8.00 140.000000 ; 17851
327 1795 1541 766.00 12.00 140.000000 ; 17701
328 1795 1796 229.00 8.00 140.000000 ; 17902
329 1796 1797 675.00 8.00 140.000000 ; 19171
330 1797 1538 562.00 8.00 140.000000 ; 19172
331 1538 1796 556.00 8.00 140.000000 ; 19151
332 1537 1798 1212.00 8.00 140.000000 ; 19221
333 1798 1799 381.00 8.00 140.000000 ; 17953
334 1799 1795 718.00 12.00 140.000000 ; 17901
335 1799 1800 170.00 8.00 140.000000 ; 17952
336 1800 1801 596.00 8.00 140.000000 ; 17961
337 1801 1800 609.00 8.00 140.000000 ; 17962
338 1801 1802 335.00 8.00 140.000000 ; 17971
339 1802 1803 420.00 8.00 140.000000 ; 17982
340 1803 1799 622.00 12.00 140.000000 ; 17951
341 1803 1804 465.00 8.00 140.000000 ; 18002
342 1804 1805 818.00 8.00 140.000000 ; 18451
343 1805 1806 748.00 8.00 140.000000 ; 18501
344 1806 1549 214.00 8.00 140.000000 ; 18551
345 1549 1807 944.00 8.00 140.000000 ; 18651
346 1807 1804 584.00 8.00 140.000000 ; 18452
347 1697 1808 929.00 12.00 140.000000 ; 17351
348 1808 1809 442.00 8.00 140.000000 ; 17352
349 1809 1810 1822.00 8.00 140.000000 ; 17362
350 1809 1810 403.00 8.00 140.000000 ; 17361
351 1802 1811 376.00 8.00 140.000000 ; 17981
352 1811 1812 366.00 8.00 140.000000 ; 18012
353 1812 1811 893.00 8.00 140.000000 ; 18011
354 1812 1813 156.00 8.00 140.000000 ; 18052
355 1813 1803 566.00 12.00 140.000000 ; 18001
356 1813 1814 786.00 12.00 140.000000 ; 18051
357 1814 1815 169.00 8.00 140.000000 ; 18101
358 1815 1816 466.00 8.00 140.000000 ; 18111
359 1816 1817 598.00 8.00 140.000000 ; 18122
360 1817 1816 663.00 8.00 140.000000 ; 18121
361 1817 1818 229.00 8.00 140.000000 ; 18131
362 1818 1819 403.00 8.00 140.000000 ; 18141
363 1819 1820 251.00 8.00 140.000000 ; 18151
364 1820 1821 158.00 8.00 140.000000 ; 18202
365 1820 1822 257.00 8.00 140.000000 ; 18201
366 1822 1823 2405.00 8.00 140.000000 ; 18281
367 1823 1824 296.00 8.00 140.000000 ; 18282
368 1824 1825 476.00 8.00 140.000000 ; 18262

369 1825 1821 303.00 8.00 140.000000 ;18251
370 1823 1826 534.00 8.00 140.000000 ;18372
371 1826 1814 1294.00 12.00 140.000000 ;18371
372 1815 1827 153.00 8.00 140.000000 ;18112
373 1827 1828 351.00 8.00 140.000000 ;18352
374 1828 1829 450.00 4.00 140.000000 ;18301
375 1829 1827 383.00 8.00 140.000000 ;18351
376 1829 1825 193.00 8.00 140.000000 ;18261
377 1822 1830 323.00 8.00 140.000000 ;17313
378 1830 1831 415.00 12.00 140.000000 ;17311
379 1831 1832 557.00 12.00 140.000000 ;17321
380 1832 1608 1637.00 12.00 140.000000 ;16801
381 1830 1833 1848.00 12.00 140.000000 ;17312
382 1834 1835 364.00 8.00 140.000000 ;16602
383 1835 1836 607.00 8.00 140.000000 ;16611
384 1834 1837 369.00 12.00 140.000000 ;16601
385 1833 1834 613.00 6.00 140.000000 ;16301
386 1837 1718 878.00 12.00 140.000000 ;16551
387 1837 1838 645.00 4.00 140.000000 ;16502
388 1838 1839 978.00 4.00 140.000000 ;16253
389 1839 1833 661.00 6.00 140.000000 ;16252
390 1838 1840 670.00 4.00 140.000000 ;16501
391 1840 1841 1531.00 8.00 140.000000 ;16451
392 1841 1842 452.00 8.00 140.000000 ;13652
393 1842 1708 834.00 12.00 140.000000 ;13651
394 1842 1843 560.00 8.00 140.000000 ;13653
395 1844 1845 433.00 8.00 140.000000 ;13701
396 1845 1846 1306.00 4.00 140.000000 ;16152
397 1846 1847 506.00 8.00 140.000000 ;16201
399 1846 1849 680.00 8.00 140.000000 ;16151
400 1849 1850 1343.00 8.00 140.000000 ;16102
401 1850 1845 681.00 8.00 140.000000 ;13702
402 1847 1839 541.00 6.00 140.000000 ;16202
403 1839 1851 1025.00 6.00 140.000000 ;16251
404 1851 1849 668.00 8.00 140.000000 ;16101
405 1851 1852 318.00 8.00 140.000000 ;16051
406 1852 1853 161.00 8.00 140.000000 ;16011
407 1853 1854 386.00 8.00 140.000000 ;16001
408 1854 1855 449.00 4.00 140.000000 ;15952
409 1854 1856 604.00 8.00 140.000000 ;15951
410 1856 1857 782.00 8.00 140.000000 ;15901
411 1857 1858 445.00 4.00 140.000000 ;15852
412 1857 1860 342.00 8.00 140.000000 ;15851
413 1860 1861 337.00 6.00 140.000000 ;15802
414 1861 1862 330.00 6.00 140.000000 ;14871
415 1862 1863 511.00 6.00 140.000000 ;14851
416 1863 1864 792.00 6.00 140.000000 ;14802
417 1864 1865 713.00 8.00 140.000000 ;14801
418 1865 1866 372.00 8.00 140.000000 ;15751
419 1866 1867 435.00 8.00 140.000000 ;15761
420 1867 1868 267.00 8.00 140.000000 ;15771
421 1868 1869 279.00 8.00 140.000000 ;15781
422 1869 1860 603.00 8.00 140.000000 ;15801
423 1865 1870 448.00 8.00 140.000000 ;14911
424 1870 1871 374.00 8.00 140.000000 ;15601
425 1871 1872 331.00 8.00 140.000000 ;15603

426 1874 1875 577.00 8.00 140.000000 ; 15581
427 1871 1876 268.00 8.00 140.000000 ; 15602
428 1876 1873 383.00 12.00 140.000000 ; 15621
429 1875 1876 844.00 8.00 140.000000 ; 15591
430 1875 1870 1089.00 8.00 140.000000 ; 14912
431 1874 1877 750.00 8.00 140.000000 ; 15583
432 1877 1878 230.00 8.00 140.000000 ; 15551
433 1865 1879 1766.00 8.00 140.000000 ; 14901
434 1879 1880 261.00 8.00 140.000000 ; 14951
435 1873 1881 871.00 12.00 140.000000 ; 20601
436 1881 1882 1667.00 12.00 140.000000 ; 20602
437 1882 1883 766.00 8.00 140.000000 ; 20802
438 1884 1885 584.00 12.00 140.000000 ; 20902
439 1885 2989 1260.00 12.00 140.000000 ; 20901
440 1886 1881 424.00 12.00 140.000000 ; 18431
441 1886 1859 1224.00 16.00 140.000000 ; 18401
442 1882 1887 754.00 12.00 140.000000 ; 20652
443 1887 1883 633.00 12.00 140.000000 ; 20801
444 1887 1888 410.00 16.00 140.000000 ; 20752
445 1888 1889 537.00 16.00 140.000000 ; 20861
446 1889 1890 788.00 16.00 140.000000 ; 20872
447 1890 1891 1216.00 8.00 140.000000 ; 20851
448 1891 1890 294.00 16.00 140.000000 ; 20871
449 1891 1892 178.00 16.00 140.000000 ; 30301
450 1892 1893 189.00 16.00 140.000000 ; 20831
451 1893 1894 1001.00 8.00 140.000000 ; 20931
452 1894 1895 475.00 8.00 140.000000 ; 20932
453 1895 1896 569.00 16.00 140.000000 ; 20961
454 1897 1898 324.00 8.00 140.000000 ; 30251
455 1896 1899 363.00 8.00 140.000000 ; 20971
456 1899 1900 623.00 8.00 140.000000 ; 30101
457 1900 1895 831.00 8.00 140.000000 ; 20962
458 1895 1901 257.00 16.00 140.000000 ; 20942
459 1901 1894 483.00 8.00 140.000000 ; 20941
460 1899 1902 213.00 8.00 140.000000 ; 30201
461 1900 1903 567.00 8.00 140.000000 ; 30051
462 1901 1904 213.00 16.00 140.000000 ; 20951
463 1904 1885 993.00 12.00 140.000000 ; 20903
464 1905 1906 1990.00 8.00 140.000000 ; 20891
465 1906 1904 166.00 8.00 140.000000 ; 20922
466 1885 1907 172.00 8.00 140.000000 ; 20911
467 1906 1907 857.00 8.00 140.000000 ; 20921
468 1884 1892 1155.00 8.00 140.000000 ; 20821
469 1904 1908 693.00 16.00 140.000000 ; 30351
470 1908 1909 502.00 16.00 140.000000 ; 30401
471 1909 1910 593.00 16.00 140.000000 ; 30451
472 1850 1912 279.00 8.00 140.000000 ; 13751
473 1912 1913 1533.00 8.00 140.000000 ; 13802
474 1913 1914 549.00 8.00 140.000000 ; 13851
475 1914 1915 242.00 8.00 140.000000 ; 13221
476 1707 1916 1335.00 8.00 140.000000 ; 13201
477 1916 1911 1772.00 8.00 140.000000 ; 13211
478 1915 1916 2146.00 8.00 140.000000 ; 13212
479 1912 1917 998.00 8.00 140.000000 ; 13801
480 1917 1918 2325.00 8.00 140.000000 ; 13951
481 1918 1919 978.00 8.00 140.000000 ; 14001

482 1919 1920 1043.00 6.00 140.000000 ; 14052
483 1919 1921 599.00 8.00 140.000000 ; 14051
484 1917 1922 1350.00 8.00 140.000000 ; 13952
485 1922 1923 310.00 8.00 140.000000 ; 14301
486 1923 1924 3226.00 8.00 140.000000 ; 14311
487 1864 1925 185.00 8.00 140.000000 ; 14811
488 1927 1925 969.00 8.00 140.000000 ; 14991
489 1808 1832 1032.00 12.00 140.000000 ; 17301
490 1897 1893 153.00 16.00 140.000000 ; 20841
491 1888 1928 2101.00 16.00 140.000000 ; 20751
492 1928 1929 581.00 8.00 140.000000 ; 15402
493 1929 1930 593.00 8.00 140.000000 ; 15451
494 1930 1878 561.00 8.00 140.000000 ; 15501
495 1930 1931 604.00 8.00 140.000000 ; 15262
496 1931 1880 528.00 8.00 140.000000 ; 14962
497 1880 1932 388.00 8.00 140.000000 ; 14961
498 1933 1927 1498.00 8.00 140.000000 ; 14981
499 1934 1924 2879.00 8.00 140.000000 ; 14401
500 1933 1935 562.00 8.00 140.000000 ; 14982
501 1932 1933 487.00 8.00 140.000000 ; 14971
502 1933 1936 1731.00 8.00 140.000000 ; 15151
503 1936 1931 1296.00 8.00 140.000000 ; 15261
504 1936 1937 555.00 8.00 140.000000 ; 15152
505 1936 1938 551.00 8.00 140.000000 ; 15153
506 1938 1928 1144.00 16.00 140.000000 ; 15302
507 1889 1939 673.00 24.00 140.000000 ; 20862
508 1939 1898 1233.00 8.00 140.000000 ; 20843
509 1940 1941 484.00 16.00 140.000000 ; 15351
510 1941 1942 1418.00 8.00 140.000000 ; 15371
511 1942 1943 1033.00 8.00 140.000000 ; 15372
512 1943 1941 1661.00 16.00 140.000000 ; 15341
513 1945 1946 1138.00 8.00 140.000000 ; 14211
514 1947 1948 776.00 8.00 140.000000 ; 14202
515 1948 1949 2015.00 8.00 140.000000 ; 14204
516 1949 1943 2062.00 16.00 140.000000 ; 15361
517 1946 1947 241.00 8.00 140.000000 ; 14191
518 1946 1950 471.00 8.00 140.000000 ; 14212
519 1950 1944 990.00 8.00 140.000000 ; 15391
520 1944 1951 413.00 8.00 140.000000 ; 14231
521 1951 1945 383.00 8.00 140.000000 ; 14221
522 1950 1951 618.00 8.00 140.000000 ; 15381
523 1948 1952 504.00 8.00 140.000000 ; 14201
524 1948 1953 1105.00 8.00 140.000000 ; 14203
525 1953 1949 837.00 16.00 140.000000 ; 14241
526 1953 1954 868.00 16.00 140.000000 ; 14251
527 1926 1955 1238.00 8.00 140.000000 ; 14601
528 1955 1934 1289.00 8.00 140.000000 ; 14501
529 1938 1956 377.00 16.00 140.000000 ; 15301
530 1956 1940 2613.00 16.00 140.000000 ; 15311
531 1698 1957 1379.00 12.00 140.000000 ; 5602
532 1957 1958 1916.00 8.00 140.000000 ; 5601
533 1958 1959 1461.00 8.00 140.000000 ; 5651
534 1959 1960 1371.00 6.00 140.000000 ; 5701
535 1960 1961 678.00 6.00 140.000000 ; 5752
536 1962 1963 329.00 6.00 140.000000 ; 5861
537 1963 1964 724.00 6.00 140.000000 ; 5901

538 1964 1965 829.00 8.00 140.000000 ; 5951
539 1965 1693 1125.00 8.00 140.000000 ; 5961
540 1694 1959 1309.00 6.00 140.000000 ; 5702
541 1960 1966 356.00 8.00 140.000000 ; 5751
542 1967 1968 915.00 8.00 140.000000 ; 5771
543 1968 1969 388.00 8.00 140.000000 ; 4701
544 1969 1970 2427.00 8.00 140.000000 ; 1723
546 1973 1974 858.00 12.00 140.000000 ; 1601
547 1972 1976 716.00 12.00 140.000000 ; 1701
548 1976 1977 749.00 8.00 140.000000 ; 1752
549 1977 1978 1086.00 8.00 140.000000 ; 1761
550 1978 1979 460.00 8.00 140.000000 ; 1811
551 1979 1980 321.00 8.00 140.000000 ; 1852
553 1981 1982 198.00 12.00 140.000000 ; 1861
554 1983 1984 420.00 12.00 140.000000 ; 1443
555 1985 1986 118.00 12.00 140.000000 ; 1451
556 1986 1987 127.00 12.00 140.000000 ; 1453
557 1983 1989 1029.00 12.00 140.000000 ; 1403
558 1989 1990 1603.00 12.00 140.000000 ; 1301
559 1990 1991 697.00 8.00 140.000000 ; 1252
560 1991 1992 300.00 8.00 140.000000 ; 1151
561 1992 1993 1208.00 8.00 140.000000 ; 1101
562 1993 1994 591.00 8.00 140.000000 ; 1052
563 1994 1990 1292.00 12.00 140.000000 ; 1251
564 1995 1996 439.00 12.00 140.000000 ; 3901
565 1996 1997 268.00 12.00 140.000000 ; 3911
566 1997 1998 589.00 12.00 140.000000 ; 3951
567 1998 1999 778.00 12.00 140.000000 ; 3961
568 1999 2000 398.00 12.00 140.000000 ; 4001
569 2000 2001 283.00 12.00 140.000000 ; 4121
570 2001 2002 213.00 8.00 140.000000 ; 4113
571 2002 2003 431.00 8.00 140.000000 ; 4761
572 2003 2004 343.00 8.00 140.000000 ; 4751
573 2004 2005 539.00 8.00 140.000000 ; 4731
574 2005 2006 532.00 8.00 140.000000 ; 4721
575 2006 1968 578.00 8.00 140.000000 ; 4711
576 1969 1997 682.00 8.00 140.000000 ; 3952
577 1999 2007 625.00 8.00 140.000000 ; 4002
578 2007 2008 286.00 8.00 140.000000 ; 4011
579 2007 2009 665.00 8.00 140.000000 ; 4101
580 2010 2011 115.00 8.00 140.000000 ; 4141
581 2011 2002 1355.00 6.00 140.000000 ; 4762
582 2001 2009 327.00 8.00 140.000000 ; 4112
583 2001 2010 771.00 12.00 140.000000 ; 4111
584 2009 2012 976.00 8.00 140.000000 ; 4102
585 2012 2013 214.00 8.00 140.000000 ; 2902
586 2013 2014 757.00 8.00 150.000000 ; 2851
587 2014 2015 304.00 8.00 140.000000 ; 2852
588 2016 2017 667.00 8.00 140.000000 ; 4043
589 2017 2007 310.00 8.00 140.000000 ; 4012
590 2014 2018 1296.00 8.00 140.000000 ; 2822
591 2018 2019 299.00 12.00 140.000000 ; 2821
592 2019 2020 381.00 12.00 140.000000 ; 2961
593 2012 2021 318.00 8.00 140.000000 ; 4131
594 2021 2022 272.00 4.00 140.000000 ; 4171
595 2020 2024 403.00 12.00 140.000000 ; 3301

597 2025 2026 284.00 12.00 140.000000 ; 3061
598 2025 2027 1050.00 8.00 140.000000 ; 3021
599 2027 2028 369.00 8.00 140.000000 ; 3001
600 2028 2029 704.00 8.00 140.000000 ; 2802
601 2029 2030 337.00 12.00 140.000000 ; 2801
602 2030 2018 171.00 12.00 140.000000 ; 2811
604 2031 2024 1301.00 8.00 140.000000 ; 3073
605 2031 2032 612.00 12.00 140.000000 ; 3072
606 2032 2033 939.00 12.00 140.000000 ; 3152
607 2032 2034 97.00 8.00 140.000000 ; 3151
608 2026 2035 284.00 8.00 140.000000 ; 3051
609 2035 2036 175.00 8.00 140.000000 ; 3081
610 2037 2038 278.00 8.00 140.000000 ; 2061
611 2038 2039 262.00 8.00 140.000000 ; 2071
612 2039 2040 327.00 8.00 140.000000 ; 2081
613 2037 2041 528.00 8.00 140.000000 ; 2052
614 2041 2042 308.00 12.00 140.000000 ; 2051
615 2042 2043 295.00 12.00 140.000000 ; 2001
616 2029 2044 285.00 12.00 140.000000 ; 2502
617 2044 2045 459.00 12.00 140.000000 ; 2461
618 2045 2046 321.00 12.00 140.000000 ; 2451
619 2046 2047 1119.00 8.00 140.000000 ; 2452
620 2047 2044 693.00 8.00 140.000000 ; 2501
621 2048 2049 211.00 8.00 140.000000 ; 2362
622 2049 2050 800.00 12.00 140.000000 ; 2361
623 2050 2051 343.00 12.00 140.000000 ; 2371
624 2051 2052 200.00 12.00 140.000000 ; 2381
625 2052 2508 298.00 12.00 140.000000 ; 2402
626 2052 2046 385.00 12.00 140.000000 ; 2401
627 2051 2053 333.00 8.00 140.000000 ; 2382
628 2053 2054 455.00 8.00 140.000000 ; 2602
629 2054 2055 982.00 8.00 140.000000 ; 2651
630 2055 2056 700.00 8.00 140.000000 ; 2701
631 2057 1996 243.00 8.00 140.000000 ; 3912
632 2055 2058 927.00 8.00 140.000000 ; 2581
633 2058 2059 844.00 8.00 140.000000 ; 2562
634 2059 2060 888.00 8.00 140.000000 ; 2561
635 2060 2058 342.00 8.00 140.000000 ; 2571
636 2060 2053 657.00 8.00 140.000000 ; 2601
637 2049 2061 269.00 12.00 140.000000 ; 2351
638 2061 2062 919.00 8.00 140.000000 ; 2352
639 2062 2063 301.00 8.00 140.000000 ; 2302
640 2063 2061 734.00 12.00 140.000000 ; 2301
641 2063 2064 439.00 12.00 140.000000 ; 2252
642 2064 2065 585.00 12.00 140.000000 ; 2251
643 2065 2066 71.00 8.00 140.000000 ; 501
644 2067 2068 498.00 8.00 140.000000 ; 523
645 2068 2069 176.00 8.00 140.000000 ; 421
646 2069 2070 280.00 8.00 140.000000 ; 401
647 2070 2071 460.00 8.00 140.000000 ; 351
648 2071 2072 202.00 8.00 140.000000 ; 331
649 2072 2073 1600.00 8.00 140.000000 ; 322
650 2074 2075 268.00 8.00 140.000000 ; 251
651 2075 2076 302.00 8.00 140.000000 ; 231
652 2076 2077 263.00 8.00 140.000000 ; 221
653 2077 2078 173.00 8.00 140.000000 ; 211

654 2078 2079 514.00 8.00 140.000000 ; 201
655 2079 2080 702.00 8.00 140.000000 ; 112
656 2080 2082 295.00 8.00 140.000000 ; 101
659 2082 2085 1587.00 8.00 140.000000 ; 102
660 2085 2068 470.00 8.00 140.000000 ; 422
661 2070 2086 663.00 8.00 140.000000 ; 352
662 2065 2087 262.00 12.00 140.000000 ; 502
663 2087 2041 941.00 12.00 140.000000 ; 2151
664 2074 2088 2923.00 8.00 140.000000 ; 702
665 1961 1962 323.00 6.00 140.000000 ; 5851
666 2017 2089 402.00 2.00 150.000000 ; 4031
667 2062 2059 488.00 8.00 140.000000 ; 2551
668 2080 2090 318.00 8.00 140.000000 ; 111
669 2090 2081 491.00 8.00 140.000000 ; 121
670 1980 1986 233.00 12.00 140.000000 ; 1851
671 1994 2092 813.00 12.00 140.000000 ; 1051
672 2092 2093 3331.00 12.00 140.000000 ; 1001
673 2093 2094 326.00 12.00 140.000000 ; 851
674 2094 2088 263.00 12.00 140.000000 ; 801
675 2093 2095 1237.00 8.00 140.000000 ; 852
676 2095 2096 352.00 8.00 140.000000 ; 901
677 2088 2097 656.00 12.00 140.000000 ; 701
678 2097 2098 1916.00 12.00 140.000000 ; 651
679 2099 2100 491.00 8.00 140.000000 ; 5481
680 2100 2101 336.00 8.00 140.000000 ; 5471
681 2101 2102 362.00 8.00 140.000000 ; 5461
682 2102 2103 2271.00 8.00 140.000000 ; 5451
683 2103 2104 1650.00 8.00 140.000000 ; 5421
684 2104 2105 332.00 8.00 140.000000 ; 5411
685 1759 2106 3394.00 8.00 140.000000 ; 7851
686 2106 2099 1461.00 8.00 140.000000 ; 7751
687 2099 2107 321.00 8.00 140.000000 ; 5233
688 2108 2109 1253.00 8.00 140.000000 ; 5163
689 2110 2111 453.00 8.00 140.000000 ; 5141
690 2111 2112 269.00 8.00 140.000000 ; 5122
691 2112 2113 851.00 4.00 140.000000 ; 5123
692 2114 2115 638.00 8.00 140.000000 ; 5113
693 2115 2116 248.00 8.00 140.000000 ; 5201
694 2116 2117 349.00 8.00 140.000000 ; 5211
695 2115 2108 830.00 8.00 140.000000 ; 5202
696 2113 2118 386.00 8.00 140.000000 ; 5101
697 2118 2119 266.00 8.00 140.000000 ; 5052
698 2119 2120 182.00 8.00 140.000000 ; 5061
699 2118 2121 985.00 6.00 140.000000 ; 5102
700 2121 2112 345.00 8.00 140.000000 ; 5121
701 2121 2122 168.00 6.00 140.000000 ; 5131
702 2122 2123 204.00 8.00 140.000000 ; 4851
703 2122 2124 1671.00 8.00 140.000000 ; 4801
704 2124 2003 1254.00 8.00 140.000000 ; 4752
705 2127 2128 751.00 6.00 140.000000 ; 4422
706 2128 2129 260.00 6.00 140.000000 ; 4421
707 2129 2130 263.00 6.00 140.000000 ; 4431
708 2130 2131 481.00 6.00 140.000000 ; 4441
709 2128 2132 661.00 6.00 140.000000 ; 4383
710 2133 2134 576.00 6.00 140.000000 ; 4371
711 2134 2135 261.00 6.00 140.000000 ; 4361

712 2135 2136 259.00 6.00 140.000000 ; 4351
713 2136 2137 258.00 6.00 140.000000 ; 4303
714 2138 2139 321.00 8.00 140.000000 ; 3601
715 2139 2140 678.00 8.00 140.000000 ; 3563
716 2141 2142 741.00 8.00 140.000000 ; 3552
717 2142 2143 458.00 8.00 140.000000 ; 3551
718 2143 2144 502.00 8.00 140.000000 ; 3502
719 2143 2145 190.00 8.00 140.000000 ; 3501
720 2145 2146 565.00 8.00 140.000000 ; 3511
721 2146 2147 659.00 8.00 140.000000 ; 3432
722 2147 2145 507.00 8.00 140.000000 ; 3431
723 2147 2148 174.00 8.00 140.000000 ; 3421
724 2148 2142 986.00 8.00 140.000000 ; 3422
725 2148 2149 305.00 8.00 140.000000 ; 3411
726 2149 2150 197.00 8.00 140.000000 ; 3401
727 2150 2020 1370.00 12.00 140.000000 ; 2951
728 2150 2151 537.00 8.00 140.000000 ; 3402
729 2151 2152 702.00 8.00 140.000000 ; 3701
730 2153 2023 492.00 8.00 140.000000 ; 4211
731 2149 2154 264.00 8.00 140.000000 ; 3412
732 2154 2155 814.00 6.00 140.000000 ; 3651
733 2155 2156 380.00 2.00 140.000000 ; 3662
734 2155 2157 258.00 2.00 140.000000 ; 3661
735 2158 2159 769.00 4.00 140.000000 ; 4281
736 2159 2160 639.00 8.00 140.000000 ; 4272
737 2160 2137 152.00 8.00 140.000000 ; 4271
738 2137 2161 808.00 8.00 140.000000 ; 4302
739 2160 2162 251.00 8.00 140.000000 ; 4261
740 2162 2163 422.00 8.00 140.000000 ; 4251
741 2163 2164 338.00 8.00 140.000000 ; 4202
742 2164 2011 698.00 8.00 140.000000 ; 4151
743 2137 2165 1036.00 6.00 140.000000 ; 4301
744 2125 2167 263.00 8.00 140.000000 ; 4911
745 2166 2123 452.00 8.00 140.000000 ; 4861
746 2167 2168 1056.00 8.00 140.000000 ; 4914
747 2168 1963 838.00 6.00 140.000000 ; 4963
748 2168 2169 1175.00 6.00 140.000000 ; 4962
749 2169 2170 287.00 8.00 140.000000 ; 4971
750 2171 2172 231.00 8.00 140.000000 ; 4653
751 2172 2173 676.00 4.00 140.000000 ; 4952
752 2173 2123 1272.00 8.00 140.000000 ; 4951
753 2171 2174 1761.00 8.00 140.000000 ; 4611
754 2172 2120 836.00 8.00 140.000000 ; 4981
755 2173 2119 405.00 8.00 140.000000 ; 5051
756 2169 2175 708.00 8.00 140.000000 ; 4972
757 2175 1692 835.00 8.00 140.000000 ; 6051
758 2175 1965 924.00 8.00 140.000000 ; 6041
759 1724 2176 2352.00 12.00 140.000000 ; 21001
760 2176 2177 1000.00 12.00 140.000000 ; 21002
761 2177 2178 538.00 12.00 140.000000 ; 21101
762 2178 1921 560.00 12.00 140.000000 ; 21201
763 2178 2179 3667.00 8.00 140.000000 ; 21202
764 2179 2180 2048.00 8.00 140.000000 ; 21301
765 2180 2182 739.00 12.00 140.000000 ; 21401
766 2182 2181 587.00 12.00 140.000000 ; 21501
767 2181 2183 1418.00 12.00 140.000000 ; 21601

768 2183 2176 725.00 12.00 140.000000 ; 21701
769 2183 2184 902.00 8.00 140.000000 ; 21702
770 2184 2185 981.00 8.00 140.000000 ; 22002
771 2185 2186 357.00 8.00 140.000000 ; 21901
772 2186 2184 253.00 8.00 140.000000 ; 21801
773 2186 2185 1280.00 8.00 140.000000 ; 21902
774 2180 2187 535.00 12.00 140.000000 ; 21402
775 2187 2188 195.00 12.00 140.000000 ; 22101
776 2188 2189 887.00 12.00 140.000000 ; 22201
777 2185 2182 188.00 8.00 140.000000 ; 22001
780 2192 1791 5.00 2.00 140.000000 ; 10112
783 2195 1787 5.00 2.00 140.000000 ; 10142
789 2200 1792 5.00 2.00 140.000000 ; 10082
790 1733 2202 1268.00 8.00 140.000000 ; 9852
791 2203 1734 430.00 2.00 150.000000 ; 9861
794 2207 1770 5.00 2.00 140.000000 ; 8302
799 2211 1772 5.00 6.00 140.000000 ; 8401
800 2213 1772 5.00 2.00 140.000000 ; 8402
802 1768 2214 249.00 8.00 140.000000 ; 7662
803 2214 1758 2116.00 8.00 140.000000 ; 7661
806 2217 1767 5.00 3.00 140.000000 ; 7652
808 2220 1744 5.00 2.00 140.000000 ; 7462
812 2224 2083 5.00 2.00 140.000000 ; 72
816 2228 2067 5.00 2.00 140.000000 ; 522
819 2230 2067 5.00 6.00 140.000000 ; 521
821 2232 1983 5.00 2.00 140.000000 ; 1402
826 2237 1984 5.00 3.00 140.000000 ; 1442
828 2240 1988 5.00 3.00 140.000000 ; 3802
831 2242 1988 5.00 10.00 140.000000 ; 3801
833 2244 1970 5.00 2.00 140.000000 ; 1722
837 2248 2153 5.00 2.00 140.000000 ; 4222
840 2138 2251 92.00 8.00 140.000000 ; 3611
844 2255 2131 5.00 2.00 140.000000 ; 4452
846 2257 2131 5.00 6.00 140.000000 ; 4451
850 2261 2109 5.00 2.00 140.000000 ; 5162
852 2264 2114 5.00 2.00 140.000000 ; 5112
853 2265 2114 5.00 6.00 140.000000 ; 5111
856 2268 2171 5.00 2.00 140.000000 ; 4652
859 2103 2271 835.00 8.00 140.000000 ; 5503
860 2272 2273 338.00 8.00 140.000000 ; 234
862 2276 2273 5.00 2.00 140.000000 ; 5522
865 2127 2272 1234.00 6.00 140.000000 ; 4501
866 2271 2126 737.00 6.00 140.000000 ; 4511
867 2274 2159 431.00 8.00 140.000000 ; 4282
868 1788 2279 738.00 8.00 140.000000 ; 10121
870 1516 1515 761.00 8.00 140.000000 ; 19911
871 1525 1530 893.00 8.00 140.000000 ; 19501
872 1896 2280 441.00 16.00 140.000000 ; 20972
873 2280 1897 275.00 16.00 140.000000 ; 20842
874 1905 1906 718.00 8.00 140.000000 ; 20892
875 1884 1883 621.00 12.00 140.000000 ; 20803
876 2056 2281 572.00 8.00 140.000000 ; 2711
877 2281 2057 52.00 8.00 140.000000 ; 2721
880 2284 2271 5.00 2.00 140.000000 ; 5502
881 2286 2271 5.00 6.00 140.000000 ; 5501
883 1982 2287 482.00 12.00 140.000000 ; 1862

884 2287 1976 267.00 12.00 140.000000 ; 1751
885 2288 2289 238.00 12.00 140.000000 ; 8840751
886 2289 2290 369.00 12.00 140.000000 ; 8840701
887 2290 2291 418.00 8.00 140.000000 ; 8840851
888 2291 2292 365.00 8.00 140.000000 ; 8840901
889 2292 2288 180.00 8.00 140.000000 ; 8840902
890 2290 2293 271.00 12.00 140.000000 ; 8840502
891 2293 2294 397.00 8.00 140.000000 ; 8840601
892 2294 2295 339.00 8.00 140.000000 ; 8840602
893 2295 2293 268.00 8.00 140.000000 ; 8840552
894 2293 2296 208.00 8.00 140.000000 ; 8840501
895 2296 2297 304.00 12.00 140.000000 ; 3861
896 2297 1995 161.00 12.00 140.000000 ; 3881
897 2295 2297 155.00 8.00 140.000000 ; 8840551
899 2299 2288 5.00 3.00 140.000000 ; 1782
901 2301 2288 5.00 10.00 140.000000 ; 1781
902 1988 2302 467.00 12.00 140.000000 ; 3841
903 2302 2296 451.00 12.00 140.000000 ; 3862
904 2091 2303 946.00 12.00 140.000000 ; 2202
905 2303 1986 164.00 12.00 140.000000 ; 1483
906 2304 2305 403.00 12.00 140.000000 ; 8840001
907 2305 2306 223.00 12.00 140.000000 ; 8840002
908 2306 2307 905.00 8.00 140.000000 ; 8840051
910 2307 2309 394.00 8.00 140.000000 ; 8840101
911 2309 2306 369.00 12.00 140.000000 ; 8840052
912 2309 2302 603.00 12.00 140.000000 ; 8840102
914 2311 2304 5.00 3.00 140.000000 ; 1312
917 2098 2314 1022.00 12.00 140.000000 ; 601
918 2315 2316 926.00 8.00 140.000000 ; 661
919 2315 2317 1052.00 8.00 140.000000 ; 641
920 2318 2315 582.00 8.00 140.000000 ; 642
922 2320 2318 5.00 2.00 140.000000 ; 632
925 2091 2064 307.00 12.00 140.000000 ; 2201
926 2021 2323 519.00 8.00 140.000000 ; 4161
927 2323 2023 546.00 6.00 140.000000 ; 4181
928 1764 2324 690.00 8.00 140.000000 ; 7721
929 2324 1765 365.00 8.00 140.000000 ; 7701
931 2325 2326 1053.00 8.00 140.000000 ; 8841
932 2326 1717 279.00 12.00 140.000000 ; 13081
933 1622 2327 854.00 8.00 140.000000 ; 8882
934 2327 2326 1173.00 8.00 140.000000 ; 8861
935 2325 2327 919.00 8.00 140.000000 ; 8881
936 1855 2328 980.00 12.00 140.000000 ; 15892
937 1857 2329 724.00 12.00 140.000000 ; 15853
938 2328 2329 675.00 8.00 140.000000 ; 15872
939 2329 2330 540.00 12.00 140.000000 ; 15871
940 2330 1859 1636.00 12.00 140.000000 ; 18402
941 2330 2328 771.00 8.00 140.000000 ; 15881
942 2328 2331 120.00 12.00 140.000000 ; 15891
943 2081 2334 216.00 8.00 140.000000 ; 131
944 2334 2335 869.00 8.00 140.000000 ; 142
945 2335 2336 710.00 8.00 140.000000 ; 161
947 2337 2072 272.00 8.00 140.000000 ; 321
948 2336 2337 187.00 8.00 140.000000 ; 341
949 2336 2338 484.00 8.00 140.000000 ; 171
950 2073 2339 1091.00 8.00 140.000000 ; 271

951 2339 2074 1137.00 8.00 140.000000 ; 261
952 2338 2339 250.00 8.00 140.000000 ; 181
953 2079 2340 408.00 8.00 140.000000 ; 202
954 2334 2340 282.00 8.00 140.000000 ; 141
955 2340 2341 399.00 8.00 140.000000 ; 151
956 2341 2077 201.00 8.00 140.000000 ; 191
957 2338 2341 1379.00 8.00 140.000000 ; 192
958 2038 2342 1588.00 8.00 140.000000 ; 2091
959 2343 2037 2056.00 8.00 140.000000 ; 2062
960 2047 2344 275.00 8.00 140.000000 ; 2761
961 2344 2048 308.00 8.00 140.000000 ; 2751
962 2343 2344 1097.00 8.00 140.000000 ; 3011
963 2343 2345 293.00 8.00 140.000000 ; 3012
964 2345 2028 666.00 8.00 140.000000 ; 3002
965 2345 2346 559.00 8.00 140.000000 ; 3041
966 1597 2347 282.00 8.00 140.000000 ; 8845351
967 2348 1580 832.00 12.00 140.000000 ; 10703
968 2347 2348 588.00 8.00 140.000000 ; 8845301
969 2349 2348 336.00 12.00 140.000000 ; 8845201
970 2349 2347 528.00 8.00 140.000000 ; 8845202
971 1579 2350 607.00 12.00 140.000000 ; 20252
972 2350 2349 681.00 12.00 140.000000 ; 360
973 2350 2351 830.00 12.00 140.000000 ; 8845001
974 2351 2352 849.00 12.00 140.000000 ; 8845051
975 2352 2351 1455.00 8.00 140.000000 ; 8845101
976 2352 2353 319.00 12.00 140.000000 ; 8845151
977 2353 2354 376.00 8.00 140.000000 ; 20272
978 2354 1578 561.00 8.00 140.000000 ; 20271
979 2354 2355 581.00 8.00 140.000000 ; 20282
980 2355 1577 1400.00 8.00 140.000000 ; 20281
981 2349 2356 746.00 8.00 140.000000 ; 23001
982 2356 2357 704.00 8.00 140.000000 ; 23051
983 2357 2358 163.00 8.00 140.000000 ; 23101
984 2826 2829 443.00 20.00 140.000000 ; 20253
985 2829 2501 894.00 20.00 140.000000 ; 20382
986 2357 2359 1420.00 8.00 140.000000 ; 23201
987 2356 1617 1440.00 8.00 140.000000 ; 23002
988 1910 2360 184.00 12.00 140.000000 ; 30452
989 2361 2362 787.00 8.00 140.000000 ; 31102
990 2362 2363 909.00 8.00 140.000000 ; 31101
991 2363 2364 623.00 8.00 140.000000 ; 31001
992 2364 1909 170.00 8.00 140.000000 ; 31002
993 2364 2360 773.00 8.00 140.000000 ; 31201
994 2363 2361 842.00 8.00 140.000000 ; 31051
995 1910 2365 173.00 8.00 140.000000 ; 30501
996 2365 2366 451.00 8.00 140.000000 ; 30502
997 2366 1909 197.00 8.00 140.000000 ; 30551
998 2366 2367 410.00 8.00 140.000000 ; 30552
999 2367 2368 910.00 8.00 140.000000 ; 30601
1000 2368 2365 222.00 8.00 140.000000 ; 30651
1001 2368 2367 522.00 8.00 140.000000 ; 30652
1002 2369 1550 456.00 16.00 140.000000 ; 30001
1003 1910 2370 778.00 16.00 140.000000 ; 31801
1004 2370 2369 544.00 16.00 140.000000 ; 31502
1005 2369 2371 171.00 16.00 140.000000 ; 31501
1006 2371 2372 512.00 16.00 140.000000 ; 31551

1007 2372 2373 475.00 12.00 140.000000 ; 31651
1008 2373 2374 318.00 12.00 140.000000 ; 31701
1009 2374 2370 502.00 12.00 140.000000 ; 31751
1010 2371 2375 546.00 8.00 140.000000 ; 31601
1011 1942 2376 1574.00 8.00 140.000000 ; 15373
1012 2376 1944 983.00 8.00 140.000000 ; 15331
1013 2377 1926 769.00 8.00 140.000000 ; 14701
1014 2378 2377 1658.00 8.00 140.000000 ; 14741
1015 1925 2379 576.00 8.00 140.000000 ; 14781
1016 2379 2378 596.00 8.00 140.000000 ; 14761
1017 1926 2380 1093.00 12.00 140.000000 ; 14661
1018 2380 1927 688.00 12.00 140.000000 ; 14992
1019 2380 2381 582.00 8.00 140.000000 ; 14641
1020 2381 2382 395.00 8.00 140.000000 ; 14621
1021 1952 1934 429.00 8.00 140.000000 ; 14271
1022 1859 2383 672.00 16.00 140.000000 ; 18381
1023 2383 1826 1122.00 16.00 140.000000 ; 18373
1024 1867 1872 276.00 8.00 140.000000 ; 15762
1025 1872 2384 626.00 2.00 150.000000 ; 15811
1026 1873 2385 535.00 8.00 140.000000 ; 15631
1027 2385 1874 539.00 8.00 140.000000 ; 15582
1028 2183 2386 478.00 12.00 140.000000 ; 21751
1029 2127 2273 1388.00 4.00 140.000000 ; 4502
1030 1966 2387 1444.00 8.00 140.000000 ; 5762
1031 2387 1967 161.00 8.00 140.000000 ; 5781
1032 2004 2388 124.00 8.00 140.000000 ; 4771
1033 2388 1966 1071.00 8.00 140.000000 ; 5761
1035 2389 2023 342.00 8.00 140.000000 ; 4201
1036 2009 2390 112.00 8.00 140.000000 ; 4091
1037 2390 2010 558.00 8.00 140.000000 ; 4142
1038 1772 2391 1641.00 6.00 140.000000 ; 8403
1039 2391 2392 111.00 6.00 140.000000 ; 8421
1040 2392 1774 556.00 6.00 140.000000 ; 429
1041 1773 2393 988.00 4.00 140.000000 ; 8541
1042 1778 2394 604.00 6.00 140.000000 ; 8561
1043 1585 2395 30.00 16.00 140.000000 ; 11632
1044 2395 1586 1871.00 16.00 140.000000 ; 11603
1047 1584 2398 5.00 12.00 140.000000 ; 11702
1052 1553 2403 360.00 24.00 140.000000 ; 12401
1053 2403 1554 552.00 24.00 140.000000 ; 12301
1054 1553 2510 70.00 24.00 140.000000 ; 12341
1055 2510 2404 68.00 36.00 140.000000 ; 12363
1060 2827 2409 2637.00 24.00 140.000000 ; 20302
1061 2409 1552 180.00 24.00 140.000000 ; 12391
1063 1957 2410 1267.00 12.00 140.000000 ; 1551
1064 1972 1973 669.00 12.00 140.000000 ; 1654
1065 2410 2411 850.00 12.00 140.000000 ; 1524
1066 2332 1974 2305.00 12.00 140.000000 ; 1602
1068 2412 2411 10.00 12.00 140.000000 ; 1503
1070 2414 2415 2641.00 12.00 140.000000 ; 1321
1071 2415 1989 1146.00 12.00 140.000000 ; 1302
1072 2333 2415 174.00 12.00 140.000000 ; 1341
1073 1975 1974 10.00 12.00 140.000000 ; 1603
1074 1940 2416 685.00 12.00 140.000000 ; 15352
1075 2416 2417 3468.00 8.00 140.000000 ; 8841001
1076 2417 2418 3042.00 8.00 140.000000 ; 8841301

1077 2418 2416 1116.00 8.00 140.000000 ; 8841201
1078 2416 2419 1706.00 8.00 140.000000 ; 8841101
1079 2419 1940 1761.00 8.00 140.000000 ; 8841102
1080 2416 2420 4008.00 12.00 140.000000 ; 8841002
1081 2420 2421 3878.00 8.00 140.000000 ; 8841501
1082 2420 2422 1100.00 12.00 140.000000 ; 8841401
1083 2422 2423 1853.00 12.00 140.000000 ; 8841601
1084 2423 2424 1252.00 12.00 140.000000 ; 8842001
1085 2424 2425 412.00 12.00 140.000000 ; 8842101
1086 2425 2426 1376.00 12.00 140.000000 ; 8842201
1087 2426 2427 1644.00 12.00 140.000000 ; 8842502
1088 2427 2428 1072.00 8.00 140.000000 ; 8842501
1089 2428 2429 2008.00 8.00 140.000000 ; 8842401
1090 2429 2426 1682.00 8.00 140.000000 ; 884230
1091 2425 2428 2363.00 8.00 140.000000 ; 8842601
1092 2360 2430 687.00 12.00 140.000000 ; 31161
1093 2430 2361 130.00 12.00 140.000000 ; 31151
1105 2441 1763 5.00 3.00 140.000000 ; 7112
1107 2444 2016 5.00 6.00 140.000000 ; 4041
1109 2446 2016 5.00 2.00 140.000000 ; 4042
1112 2251 2450 5.00 2.00 140.000000 ; 3622
1113 2450 2252 5.00 2.00 140.000000 ; 3632
1114 2251 2452 5.00 6.00 140.000000 ; 3621
1115 2452 2252 5.00 6.00 140.000000 ; 3631
1116 2104 2453 1389.00 8.00 140.000000 ; 5412
1117 2252 2454 321.00 8.00 140.000000 ; 3691
1119 2456 2504 50.00 8.00 140.000000 ; 4913
1120 2504 2166 100.00 8.00 140.000000 ; 4891
1121 1889 2457 4813.00 8.00 140.000000 ; 478
1122 2020 2458 548.00 8.00 140.000000 ; 479
1123 2458 2013 910.00 8.00 140.000000 ; 480
1126 2461 1552 5.00 20.00 140.000000 ; P485
1127 2462 1585 5.00 16.00 140.000000 ; P486
1138 1973 2410 103.00 1.00 140.000000 ; 496
2703 2199 1792 5.00 6.00 140.000000 ; 2703
2707 2197 1787 5.00 6.00 140.000000 ; 2707
2715 2204 2203 41.21 2.00 140.000000 ; 2715
2720 2208 1770 56.14 6.00 140.000000 ; 2720
2724 2216 1767 29.21 6.00 140.000000 ; 2724
2728 2440 1763 33.13 10.00 140.000000 ; 2728
2732 2221 1744 37.11 6.00 140.000000 ; 2732
2736 2270 2171 38.12 6.00 140.000000 ; 2736
2744 2259 2109 32.33 6.00 140.000000 ; 2744
2748 2437 2107 46.77 6.00 140.000000 ; 2748
2754 2253 2132 47.10 4.00 140.000000 ; 2754
2758 2278 2273 54.66 6.00 140.000000 ; 2758
2766 2447 2140 38.58 6.00 140.000000 ; 2766
2776 2234 1983 35.40 6.00 140.000000 ; 2776
2780 2236 1984 34.38 10.00 140.000000 ; 2780
2786 2043 2084 81.04 8.00 140.000000 ; 2786
2787 2083 2082 85.38 8.00 140.000000 ; 2787
2789 2226 2083 36.68 6.00 140.000000 ; 2789
2793 2313 2304 98.63 10.00 140.000000 ; 2793
2800 1981 1980 98.88 12.00 140.000000 ; 2800
2804 1972 1971 84.75 8.00 140.000000 ; 2804
2806 2245 1970 38.64 6.00 140.000000 ; 2806

2810 2322 2318 70.75 6.00 140.000000 ; 2810
2815 1582 1561 66.68 16.00 140.000000 ; 2815
2816 1562 1563 40.63 24.00 140.000000 ; 2816
2818 2279 1789 110.87 8.00 140.000000 ; 2818
2819 1975 2412 72.26 6.00 140.000000 ; 2819
2821 2031 2026 57.38 12.00 140.000000 ; 2882
2822 2024 2025 68.62 12.00 140.000000 ; 2823
2844 2187 2845 3131.97 12.00 140.000000 ; 2844
2849 2826 1579 1.00 20.00 140.000000 ; p2849
2854 1551 2827 1.00 24.00 140.000000 ; p2854
2941 2092 2940 4579.76 18.00 140.000000 ; 2941
2980 1724 2986 2981.37 8.00 140.000000 ; 2980
2987 2986 1919 1409.17 8.00 140.000000 ; 2987
2988 1915 2986 1156.90 8.00 140.000000 ; 2988
2990 2989 1886 1297.94 12.00 140.000000 ; 2990
2991 1905 2992 515.60 8.00 140.000000 ; 2991
2993 2992 2989 332.68 8.00 140.000000 ; 2993
2994 2992 1907 183.18 8.00 140.000000 ; 2994
2995 2989 1884 513.01 12.00 140.000000 ; 2995
2996 1603 1720 608.91 12.00 140.000000 ; 2996
2997 1557 1574 887.10 12.00 140.000000 ; 2997
2999 2998 1592 1335.65 8.00 140.000000 ; 2999
3001 3000 1594 1532.51 8.00 140.000000 ; 3003
3002 2998 3000 1783.40 8.00 140.000000 ; 3004

Valves

Id, Upstream node id, Downstream node id, Valve Diameter (in), valve type, pressure setting(psi) minor loss, secondary id

781 1790 2193 2.00 PRV 32.04 10.000000 ; 10092
782 1788 2195 2.00 PRV 19.93 10.000000 ; 10132
788 1793 2200 2.00 PRV 35.04 10.000000 ; 10052
795 1769 2207 2.00 PRV 47.23 10.000000 ; 8292
798 1771 2211 6.00 PRV 47.23 10.000000 ; 8391
801 1771 2213 2.00 PRV 55.90 10.000000 ; 8392
807 1766 2217 3.00 PRV 53.07 10.000000 ; 7612
809 1743 2220 2.00 PRV 40.05 10.000000 ; 7452
813 2084 2224 2.00 PRV 39.87 10.000000 ; 62
817 2066 2228 2.00 PRV 50.27 10.000000 ; 512
820 1978 2232 2.00 PRV 82.98 10.000000 ; 1802
827 1985 2237 3.00 PRV 85.80 10.000000 ; 1462
829 1987 2240 3.00 PRV 100.10 10.000000 ; 1472
832 1971 2244 2.00 PRV 58.07 10.000000 ; 1712
836 2152 2248 2.00 PRV 55.03 10.000000 ; 3722
843 2161 2255 2.00 PRV 50.27 10.000000 ; 4332
845 2161 2257 6.00 PRV 42.90 10.000000 ; 4331
849 2110 2261 2.00 PRV 61.97 10.000000 ; 5152
851 2113 2264 2.00 PRV 55.03 10.000000 ; 5192
855 2170 2268 2.00 PRV 52.06 10.000000 ; 4602
861 2274 2276 2.00 PRV 58.07 10.000000 ; 5532
878 1743 2221 6.00 PRV 30.03 10.000000 ; 2731
879 2272 2284 2.00 PRV 55.03 10.000000 ; 5512
882 2272 2286 6.00 PRV 45.07 10.000000 ; 5511
898 2287 2299 3.00 PRV 93.17 10.000000 ; 1772
913 2303 2311 3.00 PRV 93.17 10.000000 ; 1482
921 2314 2320 2.00 PRV 71.93 10.000000 ; 622
1069 2412 2414 6.00 PRV 75.83 10.000000 ; 1501
1104 1762 2441 3.00 PRV 45.05 10.000000 ; 7162
1106 2015 2444 6.00 PRV 55.07 10.000000 ; 2861
1108 2015 2446 2.00 PRV 63.08 10.000000 ; 2862
1118 2167 2456 6.00 PSV 58.50 0.000000 ; 4912
2702 1793 2199 6.00 PRV 28.03 10.000000 ; 2702
2706 1788 2197 6.00 PRV 15.17 10.000000 ; 2706
2710 1790 2190 6.00 PRV 28.03 10.000000 ; 2710
2714 2202 2204 2.00 PRV 60.23 10.000000 ; 2714
2719 1769 2208 6.00 PRV 45.07 10.000000 ; 2719
2723 1766 2216 10.00 PRV 48.06 10.000000 ; 2723
2727 1762 2440 10.00 PRV 40.05 10.000000 ; 2727
2735 2170 2270 6.00 PRV 49.06 10.000000 ; 2735
2739 2113 2265 6.00 PRV 45.07 10.000000 ; 2739
2743 2110 2259 6.00 PRV 57.20 10.000000 ; 2743
2747 2108 2437 6.00 PRV 80.10 10.000000 ; 2747
2753 2133 2253 4.00 PRV 42.05 10.000000 ; 2753
2757 2274 2278 6.00 PRV 50.27 10.000000 ; 2757
2765 2141 2447 6.00 PRV 42.05 10.000000 ; 2765
2775 1978 2234 6.00 PRV 73.23 10.000000 ; 2775
2779 1985 2236 10.00 PRV 74.97 10.000000 ; 2779
2783 2066 2230 6.00 PRV 45.07 10.000000 ; 2783
2788 2084 2226 6.00 PRV 35.97 10.000000 ; 2788
2792 2303 2313 10.00 PRV 84.93 10.000000 ; 2792

2796 1987 2242 10.00 PRV 90.13 10.000000 ; 2796
2801 2287 2301 10.00 PRV 84.93 10.000000 ; 2803
2805 1971 2245 6.00 PRV 52.87 10.000000 ; 2805
2809 2314 2322 6.00 PRV 67.17 10.000000 ; 2809

Patterns

Peaking Factor Id, Peaking Factor

1 1

2 1

Status

Pipe id, Status

290 CLOSED
565 CLOSED
577 CLOSED
582 CLOSED
585 CLOSED
877 CLOSED
1031 CLOSED
1032 CLOSED
1036 CLOSED
1039 CLOSED
1065 CLOSED
1138 CLOSED

The following input file represents build out conditions (31,000 ERUs) for Alternative #4 under ADD within the Plateau Zone (similar input files were used for Alternatives #1 and #18).

Junctions

Identifier, elevation (ft), demand (gpm), demand pattern

1501 580.00 1.488000 1
 1502 580.00 3.162000 1
 1503 543.00 1.674000 1
 1504 551.00 1.302000 1
 1505 525.00 9.114000 1
 1506 390.00 9.486000 1
 1507 400.00 36.549000 1
 1508 415.00 19.344000 1
 1509 407.13 64.542000 1
 1510 425.00 3.255000 1
 1511 344.92 3.348000 1
 1512 435.00 1.860000 1
 1513 375.00 0.186000 1
 1514 375.00 0.000000 1
 1515 380.00 0.558000 1
 1516 380.00 5.394000 1
 1517 377.00 0.372000 1
 1518 368.00 0.837000 1
 1519 390.00 0.000000 1
 1520 540.00 0.744000 1
 1521 400.00 1.488000 1
 1522 390.00 2.604000 1
 1523 404.00 13.764000 1
 1524 439.00 12.276000 1
 1525 455.00 6.324000 1
 1526 425.00 3.906000 1
 1527 410.00 5.952000 1
 1528 425.00 9.114000 1
 1529 455.00 2.790000 1
 1530 465.00 11.532000 1
 1531 457.00 4.464000 1
 1532 453.00 6.510000 1
 1533 447.00 14.880000 1
 1534 455.00 4.278000 1
 1535 430.00 4.278000 1
 1536 388.00 3.813000 1
 1537 425.00 6.138000 1
 1538 435.00 1.860000 1
 1539 390.00 57.195000 1
 1540 365.00 0.000000 1
 1541 382.00 7.254000 1
 1542 374.00 6.138000 1
 1543 474.00 3.441000 1
 1544 480.00 2.604000 1
 1545 454.00 6.324000 1
 1546 465.00 4.650000 1
 1547 430.00 6.696000 1
 1548 473.00 5.394000 1
 1549 475.00 4.836000 1

1550 440.00 3.534000 1
1551 485.00 60.077999 1
1552 260.00 25.575001 1
1553 260.00 1000.000000 2
1554 90.00 15.624000 1
1555 120.00 0.930000 1
1556 51.00 6.417000 1
1557 52.00 14.322000 1
1558 64.00 54.312000 1
1559 66.00 1.116000 1
1560 70.00 0.000000 2
1561 70.00 0.000000 1
1562 75.00 0.000000 1
1563 75.00 0.000000 1
1564 75.00 0.000000 1
1565 68.00 43.058998 1
1566 70.00 1.488000 1
1567 70.00 8.835000 1
1568 74.00 0.930000 1
1569 75.00 0.000000 1
1570 100.00 3.162000 1
1571 50.00 9.300000 1
1572 49.00 12.276000 1
1573 54.00 8.928000 1
1574 54.00 0.000000 1
1575 40.00 23.808001 1
1576 40.00 70.680000 1
1577 516.00 5.766000 1
1578 532.00 2.976000 1
1579 440.00 0.000000 1
1580 500.00 41.105999 1
1581 75.00 7.068000 1
1582 68.00 -1300.000000 2
1583 75.00 -1000.000000 2
1584 150.00 1000.000000 2
1585 150.00 3.534000 1
1586 365.00 0.000000 1
1587 430.00 13.206000 1
1588 415.00 1.395000 1
1589 426.00 12.090000 1
1590 420.00 12.090000 1
1591 415.00 0.000000 1
1592 470.00 11.439000 1
1593 450.00 12.927000 1
1594 450.00 15.252000 1
1595 490.00 9.300000 1
1596 500.00 0.000000 1
1597 405.00 1.488000 1
1598 420.00 0.000000 1
1599 420.00 19.158001 1
1600 400.00 0.000000 1
1601 440.00 19.530001 1
1602 480.00 44.639999 1
1603 435.00 9.207000 1
1604 434.00 7.161000 1
1605 435.00 10.974000 1

1606 449.00 0.000000 1
1607 440.00 0.000000 1
1608 375.00 7.347000 1
1609 440.00 5.115000 1
1610 405.00 3.162000 1
1611 400.00 2.232000 1
1612 405.00 2.790000 1
1613 380.00 2.790000 1
1614 364.00 4.092000 1
1615 370.00 4.278000 1
1616 395.00 1.488000 1
1617 352.00 2.511000 1
1618 440.00 4.464000 1
1619 405.00 9.858000 1
1620 450.00 7.440000 1
1621 433.00 7.812000 1
1622 430.00 3.441000 1
1623 430.00 9.579000 1
1624 400.00 14.508000 1
1625 425.00 13.392000 1
1626 450.00 40.919998 1
1627 540.00 1.488000 1
1628 525.00 8.091000 1
1629 540.00 71.516998 1
1630 550.00 5.580000 1
1631 395.00 11.067000 1
1632 415.00 10.602000 1
1633 440.00 0.558000 1
1634 440.00 4.464000 1
1635 430.00 25.482000 1
1636 430.00 3.348000 1
1637 430.00 1.860000 1
1638 430.00 3.348000 1
1639 430.00 2.976000 1
1640 430.00 2.232000 1
1641 430.00 0.930000 1
1642 430.00 1.860000 1
1643 425.00 0.372000 1
1644 402.00 2.418000 1
1645 430.00 2.046000 1
1646 410.00 8.277000 1
1647 425.00 3.162000 1
1648 430.00 1.302000 1
1649 450.00 5.580000 1
1650 450.00 5.022000 1
1651 425.00 14.415000 1
1652 433.00 6.324000 1
1653 425.00 0.744000 1
1654 425.00 9.858000 1
1655 425.00 4.092000 1
1656 430.00 2.976000 1
1657 430.00 1.302000 1
1658 435.00 2.232000 1
1659 440.00 1.860000 1
1660 405.00 6.696000 1
1661 405.00 3.906000 1

1662 415.00 7.440000 1
1663 395.00 7.626000 1
1664 395.00 14.694000 1
1665 395.00 3.348000 1
1666 390.00 7.626000 1
1667 400.00 8.370000 1
1668 355.00 5.580000 1
1669 355.00 4.650000 1
1670 390.00 37.479000 1
1671 420.00 15.438000 1
1672 425.00 13.020000 1
1673 405.00 4.650000 1
1674 430.00 2.790000 1
1675 445.00 5.022000 1
1676 435.00 13.392000 1
1677 430.00 6.510000 1
1678 425.00 2.325000 1
1679 410.00 5.580000 1
1680 375.00 5.022000 1
1681 425.00 3.813000 1
1682 445.00 4.836000 1
1683 440.00 1.488000 1
1684 450.00 0.558000 1
1685 430.00 1.674000 1
1686 415.00 2.418000 1
1687 415.00 7.254000 1
1688 390.00 0.000000 1
1689 350.00 5.766000 1
1690 380.00 8.742000 1
1691 340.00 4.836000 1
1692 389.00 15.810000 1
1693 365.00 8.928000 1
1694 395.00 17.670000 1
1695 375.00 1.860000 1
1696 420.00 6.603000 1
1697 390.00 0.000000 1
1698 530.00 5.673000 1
1699 520.00 0.744000 1
1700 550.00 5.952000 1
1701 530.00 0.000000 1
1702 515.00 2.046000 1
1703 520.00 2.232000 1
1704 520.00 14.136000 1
1705 400.00 1.860000 1
1706 400.00 2.418000 1
1707 375.00 1.302000 1
1708 370.00 7.626000 1
1709 370.00 5.766000 1
1710 390.00 14.973000 1
1711 424.00 4.650000 1
1712 400.00 4.929000 1
1713 416.00 4.278000 1
1714 435.00 5.022000 1
1715 435.00 7.068000 1
1716 433.00 10.695000 1
1717 443.00 3.255000 1

1718 375.00 7.812000 1
1719 380.00 10.230000 1
1720 450.00 3.813000 1
1721 400.00 2.046000 1
1722 435.00 1.488000 1
1723 425.00 9.486000 1
1724 490.00 171.399002 1
1725 390.00 8.649000 1
1726 400.00 2.976000 1
1727 430.00 3.348000 1
1728 395.00 4.092000 1
1729 405.00 4.650000 1
1730 405.00 3.348000 1
1731 385.00 0.000000 1
1732 410.00 0.372000 1
1733 435.00 8.184000 1
1734 400.00 1.488000 1
1735 415.00 10.230000 1
1736 435.00 0.558000 1
1737 425.00 2.232000 1
1738 410.00 1.674000 1
1739 435.00 1.302000 1
1740 435.00 1.116000 1
1741 360.00 2.232000 1
1742 400.00 2.232000 1
1743 355.00 0.000000 1
1744 355.00 0.000000 1
1745 270.00 4.650000 1
1746 270.00 7.998000 1
1747 325.00 1.488000 1
1748 385.00 1.488000 1
1749 380.00 8.742000 1
1750 400.00 2.418000 1
1751 370.00 3.348000 1
1752 375.00 2.418000 1
1753 400.00 2.232000 1
1754 225.00 2.604000 1
1755 155.00 5.766000 1
1756 77.00 23.993999 1
1757 103.00 8.928000 1
1758 118.00 12.648000 1
1759 46.00 26.226000 1
1760 125.00 22.599001 1
1761 205.00 14.322000 1
1762 285.00 2.046000 1
1763 285.00 0.000000 1
1764 250.00 11.346000 1
1765 231.00 1.302000 1
1766 135.00 0.000000 1
1767 130.00 0.000000 1
1768 82.00 9.486000 1
1769 375.00 13.206000 1
1770 375.00 2.697000 1
1771 280.00 0.000000 1
1772 280.00 4.278000 1
1773 280.00 1.674000 1

1774 100.00 2.790000 1
1775 90.00 3.162000 1
1776 90.00 1.488000 1
1777 65.00 0.930000 1
1778 105.00 1.860000 1
1779 95.00 1.860000 1
1780 65.00 8.370000 1
1781 70.00 5.022000 1
1782 90.00 8.556000 1
1783 140.00 1.860000 1
1784 70.00 7.626000 1
1785 59.00 12.462000 1
1786 59.00 9.300000 1
1787 205.00 0.000000 1
1788 205.00 0.000000 1
1789 225.00 0.558000 1
1790 200.00 0.000000 1
1791 200.00 0.000000 1
1792 300.00 0.000000 1
1793 410.00 13.020000 1
1794 445.00 8.370000 1
1795 440.00 3.348000 1
1796 442.00 3.534000 1
1797 460.00 6.510000 1
1798 448.00 5.208000 1
1799 444.00 0.930000 1
1800 452.00 6.045000 1
1801 435.00 3.348000 1
1802 425.00 5.208000 1
1803 416.00 2.604000 1
1804 426.00 2.232000 1
1805 462.00 4.464000 1
1806 475.00 5.208000 1
1807 456.00 6.324000 1
1808 395.00 21.111000 1
1809 403.00 14.322000 1
1810 428.00 8.928000 1
1811 422.00 0.000000 1
1812 407.00 13.764000 1
1813 400.00 0.000000 1
1814 422.00 0.000000 1
1815 427.00 2.046000 1
1816 419.00 2.790000 1
1817 418.00 6.324000 1
1818 419.00 4.650000 1
1819 426.00 4.557000 1
1820 443.00 0.558000 1
1821 447.00 6.510000 1
1822 427.00 10.044000 1
1823 439.00 9.486000 1
1824 441.00 6.882000 1
1825 450.00 1.302000 1
1826 435.00 21.576000 1
1827 432.00 2.232000 1
1828 432.00 2.232000 1
1829 447.00 2.232000 1

1830 400.00 5.208000 1
1831 380.00 6.138000 1
1832 360.00 13.764000 1
1833 400.00 6.510000 1
1834 395.00 1.488000 1
1835 390.00 4.836000 1
1836 370.00 9.114000 1
1837 395.00 2.790000 1
1838 395.00 7.626000 1
1839 440.00 5.580000 1
1840 400.00 7.998000 1
1841 450.00 2.418000 1
1842 380.00 2.976000 1
1843 395.00 1.302000 1
1844 395.00 25.296000 1
1845 385.00 5.022000 1
1846 462.00 5.580000 1
1847 465.00 3.720000 1
1849 430.00 3.534000 1
1850 395.00 6.324000 1
1851 445.00 8.928000 1
1852 435.00 2.046000 1
1853 430.00 2.046000 1
1854 420.00 6.138000 1
1855 420.00 2.046000 1
1856 415.00 3.534000 1
1857 420.00 3.162000 1
1858 430.00 1.116000 1
1859 430.00 26.040001 1
1860 447.00 0.930000 1
1861 440.00 1.860000 1
1862 425.00 2.232000 1
1863 442.00 7.254000 1
1864 450.00 2.883000 1
1865 450.00 24.180000 1
1866 420.00 2.976000 1
1867 420.00 3.720000 1
1868 430.00 2.046000 1
1869 435.00 1.674000 1
1870 440.00 0.000000 1
1871 405.00 0.000000 1
1872 405.00 -500.000000 2
1873 409.00 0.000000 1
1874 425.00 6.324000 1
1875 440.00 7.347000 1
1876 415.00 1.860000 1
1877 427.00 2.046000 1
1878 426.00 6.231000 1
1879 432.00 1.488000 1
1880 456.00 0.558000 1
1881 415.00 43.988998 1
1882 415.00 7.533000 1
1883 470.00 3.534000 1
1884 460.00 11.532000 1
1885 450.00 22.691999 1
1886 416.00 5.580000 1

1887 467.00 4.650000 1
1888 467.00 2.976000 1
1889 470.00 2.604000 1
1890 469.00 5.952000 1
1891 469.00 3.162000 1
1892 471.00 9.114000 1
1893 476.00 2.418000 1
1894 460.00 6.138000 1
1895 457.00 2.418000 1
1896 490.00 8.184000 1
1897 490.00 2.046000 1
1898 510.00 2.418000 1
1899 474.00 2.418000 1
1900 468.00 8.370000 1
1901 454.00 2.418000 1
1902 495.00 1.488000 1
1903 462.00 1.860000 1
1904 460.00 0.930000 1
1905 455.00 9.114000 1
1906 455.00 8.556000 1
1907 454.00 2.790000 1
1908 460.00 0.930000 1
1909 475.00 3.627000 1
1910 460.00 2.418000 1
1911 430.00 3.441000 1
1912 405.00 15.345000 1
1913 510.00 1.674000 1
1914 510.00 8.928000 1
1915 525.00 8.556000 1
1916 480.00 4.464000 1
1917 455.00 58.776001 1
1918 475.00 10.788000 1
1919 495.00 24.365999 1
1920 490.00 12.276000 1
1921 510.00 3.348000 1
1922 413.00 9.021000 1
1923 418.00 9.858000 1
1924 420.00 55.242001 1
1925 445.00 1.674000 1
1926 440.00 23.343000 1
1927 435.00 9.858000 1
1928 415.00 9.579000 1
1929 413.00 1.674000 1
1930 434.00 3.720000 1
1931 442.00 3.720000 1
1932 460.00 2.232000 1
1933 410.00 5.208000 1
1934 460.00 33.293999 1
1935 435.00 5.580000 1
1936 418.00 2.976000 1
1937 410.00 2.046000 1
1938 402.00 1.395000 1
1939 460.00 5.580000 1
1940 410.00 1.116000 1
1941 420.00 11.346000 1
1942 435.00 14.694000 1

1943 420.00 7.161000 1
1944 425.00 4.836000 1
1945 420.00 2.604000 1
1946 465.00 5.208000 1
1947 465.00 0.000000 1
1948 475.00 7.998000 1
1949 460.00 5.859000 1
1950 455.00 2.232000 1
1951 435.00 3.162000 1
1952 475.00 5.766000 1
1953 460.00 9.486000 1
1954 416.00 147.404999 1
1955 450.00 8.928000 1
1956 410.00 4.278000 1
1957 406.00 27.156000 1
1958 440.00 30.875999 1
1959 460.00 25.482000 1
1960 470.00 12.090000 1
1961 475.00 2.046000 1
1962 475.00 1.860000 1
1963 500.00 13.020000 1
1964 480.00 12.927000 1
1965 425.00 5.022000 1
1966 470.00 2.604000 1
1967 355.00 2.604000 1
1968 335.00 2.790000 1
1969 335.00 38.874001 1
1970 340.00 0.000000 1
1971 340.00 0.000000 1
1972 340.00 0.000000 1
1973 370.00 13.020000 1
1974 375.00 0.000000 1
1975 375.00 -139.000000 2
1976 355.00 3.348000 1
1977 355.00 6.696000 1
1978 355.00 0.000000 1
1979 355.00 0.000000 1
1980 355.00 0.000000 1
1981 355.00 8.463000 1
1982 355.00 4.929000 1
1983 355.00 19.158001 1
1984 355.00 4.371000 1
1985 355.00 0.000000 1
1986 355.00 0.000000 1
1987 355.00 0.000000 1
1988 355.00 0.000000 1
1989 360.00 76.632004 1
1990 410.00 13.950000 1
1991 365.00 3.255000 1
1992 360.00 10.044000 1
1993 400.00 6.882000 1
1994 425.00 11.160000 1
1995 355.00 1.488000 1
1996 345.00 9.858000 1
1997 350.00 0.744000 1
1998 356.00 1.860000 1

1999 325.00 2.604000 1
2000 325.00 1.302000 1
2001 335.00 0.930000 1
2002 325.00 1.488000 1
2003 295.00 1.302000 1
2004 340.00 0.558000 1
2005 325.00 2.232000 1
2006 325.00 2.976000 1
2007 375.00 1.116000 1
2008 385.00 2.976000 1
2009 355.00 7.440000 1
2010 340.00 2.046000 1
2011 340.00 2.790000 1
2012 375.00 3.162000 1
2013 475.00 13.206000 1
2014 430.00 5.022000 1
2015 410.00 0.000000 1
2016 400.00 0.000000 1
2017 375.00 1.488000 1
2018 545.00 0.000000 1
2019 510.00 1.674000 1
2020 512.00 12.183000 1
2021 402.00 1.488000 1
2022 450.00 1.860000 1
2023 375.00 7.440000 1
2024 510.00 1.674000 1
2025 510.00 0.000000 1
2026 510.00 0.744000 1
2027 575.00 5.208000 1
2028 600.00 4.836000 1
2029 605.00 2.604000 1
2030 575.00 1.860000 1
2031 510.00 4.464000 1
2032 530.00 0.000000 1
2033 545.00 0.000000 2
2034 530.00 0.000000 1
2035 517.00 0.000000 1
2036 505.00 3.348000 1
2037 434.00 7.068000 1
2038 435.00 2.790000 1
2039 438.00 3.906000 1
2040 455.00 0.000000 1
2041 425.00 0.558000 1
2042 415.00 1.488000 1
2043 415.00 0.000000 1
2044 610.00 3.906000 1
2045 610.00 3.348000 1
2046 600.00 3.348000 1
2047 580.00 4.278000 1
2048 545.00 3.534000 1
2049 550.00 2.046000 1
2050 600.00 4.650000 1
2051 597.00 0.930000 1
2052 595.00 0.930000 1
2053 585.00 3.348000 1
2054 565.00 8.370000 1

2055 534.00 10.044000 1
2056 460.00 2.418000 1
2057 380.00 0.558000 1
2058 562.00 6.696000 1
2059 538.00 8.184000 1
2060 583.00 5.022000 1
2061 547.00 2.976000 1
2062 522.00 2.604000 1
2063 490.00 2.976000 1
2064 444.00 0.837000 1
2065 435.00 0.000000 1
2066 435.00 0.000000 1
2067 435.00 0.000000 1
2068 430.00 3.534000 1
2069 425.00 3.534000 1
2070 425.00 4.278000 1
2071 420.00 2.046000 1
2072 420.00 4.464000 1
2073 420.00 0.000000 1
2074 375.00 18.042000 1
2075 390.00 3.534000 1
2076 395.00 5.208000 1
2077 405.00 1.116000 1
2078 410.00 2.790000 1
2079 415.00 3.162000 1
2080 435.00 8.370000 1
2081 450.00 2.046000 1
2082 420.00 0.000000 1
2083 420.00 0.000000 1
2084 420.00 0.000000 1
2085 425.00 8.556000 1
2086 410.00 11.160000 1
2087 435.00 7.068000 1
2088 370.00 25.296000 1
2089 430.00 0.930000 1
2090 450.00 2.418000 1
2091 445.00 5.022000 1
2092 400.00 100.625999 1
2093 345.00 55.056000 1
2094 355.00 4.278000 1
2095 340.00 0.000000 1
2096 340.00 0.000000 1
2097 335.00 40.083000 1
2098 300.00 26.877001 1
2099 60.00 7.254000 1
2100 60.00 1.860000 1
2101 60.00 2.976000 1
2102 60.00 2.976000 1
2103 80.00 6.324000 1
2104 80.00 4.278000 1
2105 80.00 1.674000 1
2106 50.00 26.226000 1
2107 95.00 0.000000 1
2108 100.00 3.720000 1
2109 200.00 2.232000 1
2110 205.00 1.860000 1

2111 270.00 2.418000 1
2112 300.00 1.674000 1
2113 240.00 1.488000 1
2114 235.00 0.000000 1
2115 175.00 7.440000 1
2116 200.00 1.674000 1
2117 200.00 2.790000 1
2118 270.00 2.232000 1
2119 300.00 0.372000 1
2120 315.00 1.116000 1
2121 350.00 4.836000 1
2122 400.00 2.418000 1
2123 410.00 3.348000 1
2124 375.00 7.254000 1
2125 465.00 14.322000 1
2126 200.00 4.464000 1
2127 200.00 0.000000 1
2128 240.00 8.556000 1
2129 245.00 1.860000 1
2130 245.00 5.208000 1
2131 275.00 0.000000 1
2132 235.00 0.000000 1
2133 235.00 2.046000 1
2134 310.00 4.836000 1
2135 330.00 3.720000 1
2136 350.00 3.534000 1
2137 360.00 4.743000 1
2138 185.00 0.000000 1
2139 245.00 7.998000 1
2140 375.00 1.116000 1
2141 375.00 1.674000 1
2142 550.00 4.650000 1
2143 585.00 5.022000 1
2144 585.00 0.000000 1
2145 585.00 4.278000 1
2146 583.00 4.278000 1
2147 583.00 3.534000 1
2148 577.00 2.976000 1
2149 575.00 1.860000 1
2150 573.00 4.929000 1
2151 550.00 4.278000 1
2152 420.00 4.092000 1
2153 420.00 0.000000 1
2154 563.00 2.418000 1
2155 450.00 1.116000 1
2156 510.00 1.488000 1
2157 400.00 3.348000 1
2158 350.00 1.860000 1
2159 270.00 0.000000 1
2160 345.00 2.976000 1
2161 275.00 0.000000 1
2162 370.00 3.534000 1
2163 340.00 2.790000 1
2164 340.00 0.930000 1
2165 330.00 5.208000 1
2166 475.00 0.000000 1

2167 465.00 0.000000 1
2168 435.00 4.278000 1
2169 370.00 2.976000 1
2170 365.00 0.000000 1
2171 365.00 8.556000 1
2172 350.00 2.604000 1
2173 410.00 2.976000 1
2174 290.00 13.578000 1
2175 375.00 9.300000 1
2176 510.00 1.116000 1
2177 525.00 3.720000 1
2178 525.00 3.255000 1
2179 480.00 2.418000 1
2180 465.00 2.790000 1
2181 455.00 12.927000 1
2182 460.00 0.465000 1
2183 510.00 5.952000 1
2184 488.00 2.976000 1
2185 465.00 5.766000 1
2186 483.00 4.278000 1
2187 445.00 25.482000 1
2188 440.00 8.184000 1
2189 405.00 4.278000 1
2190 190.00 0.000000 1
2193 190.00 0.000000 1
2195 200.00 0.000000 1
2197 200.00 0.000000 1
2199 365.00 0.000000 1
2200 365.00 0.000000 1
2202 425.00 0.930000 1
2203 425.00 0.000000 1
2204 434.00 0.000000 1
2207 375.00 0.000000 1
2208 375.00 0.000000 1
2211 300.00 0.000000 1
2213 300.00 0.000000 1
2214 82.00 5.394000 1
2216 140.00 0.000000 1
2217 140.00 0.000000 1
2220 355.00 0.000000 1
2221 355.00 0.000000 1
2224 420.00 0.000000 1
2226 400.00 0.000000 1
2228 435.00 0.000000 1
2230 435.00 0.000000 1
2232 355.50 0.000000 1
2234 355.00 0.000000 1
2236 355.00 0.000000 1
2237 355.00 0.000000 1
2240 355.00 0.000000 1
2242 355.00 0.000000 1
2244 347.00 0.000000 1
2245 347.00 0.000000 1
2248 420.00 0.000000 1
2251 175.00 0.000000 1
2252 175.00 5.580000 1

2253 270.00 0.000000 1
2255 265.00 0.000000 1
2257 265.00 0.000000 1
2259 195.00 0.000000 1
2261 195.00 0.000000 1
2264 235.00 0.000000 1
2265 235.00 0.000000 1
2268 365.00 0.000000 1
2270 365.00 0.000000 1
2271 150.00 1.488000 1
2272 150.00 2.790000 1
2273 212.00 9.672000 1
2274 212.00 3.162000 1
2276 212.00 0.000000 1
2278 212.00 0.000000 1
2279 278.00 4.743000 1
2280 509.00 2.418000 1
2281 380.00 0.186000 1
2282 370.00 1.488000 1
2284 150.00 0.000000 1
2286 150.00 0.000000 1
2287 355.00 2.139000 1
2288 355.00 0.000000 1
2289 355.00 7.905000 1
2290 355.00 9.300000 1
2291 355.00 16.275000 1
2292 355.00 14.880000 1
2293 350.00 0.000000 1
2294 350.00 0.000000 1
2295 351.00 0.000000 1
2296 355.00 12.648000 1
2297 355.00 6.324000 1
2299 355.00 0.000000 1
2301 355.00 0.000000 1
2302 355.00 5.580000 1
2303 370.00 23.993999 1
2304 370.00 0.000000 1
2305 446.00 1.395000 1
2306 445.00 0.000000 1
2307 430.00 5.952000 1
2308 430.00 3.162000 1
2309 423.00 5.580000 1
2311 370.00 0.000000 1
2313 370.00 0.000000 1
2314 245.00 3.162000 1
2315 235.00 5.394000 1
2316 310.00 3.162000 1
2317 175.00 1.116000 1
2318 245.00 0.000000 1
2320 245.00 0.000000 1
2322 245.00 0.000000 1
2323 485.00 4.464000 1
2324 279.00 3.348000 1
2325 449.00 13.020000 1
2326 450.00 6.510000 1
2327 450.00 5.580000 1

2328 420.00 0.000000 1
2329 420.00 1.488000 1
2330 420.00 8.835000 1
2331 420.00 -235.000000 2
2332 350.00 -1800.000000 2
2333 350.00 6.324000 1
2334 445.00 1.860000 1
2335 450.00 5.022000 1
2336 420.00 6.882000 1
2337 420.00 0.000000 1
2338 395.00 9.672000 1
2339 380.00 17.298000 1
2340 430.00 1.860000 1
2341 410.00 1.860000 1
2342 446.00 4.092000 1
2343 543.00 9.300000 1
2344 555.00 3.162000 1
2345 573.00 5.022000 1
2346 595.00 2.604000 1
2347 380.00 11.811000 1
2348 420.00 0.000000 1
2349 395.00 0.930000 1
2350 370.00 0.000000 1
2351 420.00 7.812000 1
2352 465.00 20.181000 1
2353 490.00 0.000000 1
2354 515.00 2.604000 1
2355 565.00 6.510000 1
2356 355.00 4.743000 1
2357 400.00 9.300000 1
2358 415.00 11.904000 1
2359 420.00 5.952000 1
2360 480.00 23.900999 1
2361 475.00 15.531000 1
2362 435.00 9.486000 1
2363 470.00 5.952000 1
2364 480.00 9.765000 1
2365 480.00 13.950000 1
2366 480.00 3.906000 1
2367 475.00 6.603000 1
2368 480.00 6.324000 1
2369 440.00 5.115000 1
2370 450.00 5.580000 1
2371 455.00 0.000000 1
2372 460.00 0.000000 1
2373 460.00 0.000000 1
2374 460.00 7.626000 1
2375 455.00 0.000000 1
2376 430.00 5.394000 1
2377 460.00 5.580000 1
2378 420.00 4.836000 1
2379 450.00 3.906000 1
2380 435.00 4.092000 1
2381 455.00 3.534000 1
2382 465.00 0.930000 1
2383 430.00 13.857000 1

2384 420.00 1.302000 1
2385 410.00 1.860000 1
2386 510.00 36.270000 1
2387 355.00 1.674000 1
2388 340.00 0.930000 1
2389 340.00 0.000000 1
2390 355.00 0.000000 1
2391 170.00 0.000000 1
2392 170.00 0.000000 1
2393 175.00 10.230000 1
2394 175.00 10.044000 1
2395 180.00 0.000000 1
2398 180.00 0.000000 1
2403 250.00 22.971001 1
2404 260.00 0.000000 1
2409 260.00 77.561996 1
2410 370.00 9.672000 1
2411 375.00 51.335999 1
2412 375.00 0.000000 1
2414 375.00 0.000000 1
2415 350.00 0.000000 1
2416 380.00 9.858000 1
2417 300.00 9.300000 1
2418 355.00 13.950000 1
2419 385.00 18.042000 1
2420 115.00 2.287800 1
2421 305.00 1.860000 1
2422 110.00 0.000000 1
2423 110.00 0.000000 1
2424 235.00 10.974000 1
2425 285.00 5.394000 1
2426 380.00 5.208000 1
2427 475.00 5.208000 1
2428 340.00 5.208000 1
2429 380.00 5.208000 1
2430 475.00 0.000000 1
2437 95.00 0.000000 1
2440 280.00 0.000000 1
2441 280.00 0.000000 1
2444 410.00 0.000000 1
2446 410.00 0.000000 1
2447 365.00 0.000000 1
2450 170.00 0.000000 1
2452 170.00 0.000000 1
2453 125.00 0.000000 1
2454 210.00 0.000000 1
2456 450.00 0.000000 1
2457 500.00 4.464000 1
2458 490.00 0.000000 2
2461 260.00 -1000.000000 2
2462 150.00 -1000.000000 2
2826 440.00 0.000000 1
2827 485.00 0.000000 1
2829 420.00 0.000000 1
2845 477.20 0.000000 1
2867 350.00 0.000000 2

2871 375.00 0.000000 2
2940 317.00 0.000000 1
2943 450.00 0.000000 1
2945 450.00 0.000000 1
2947 461.79 0.000000 1
2951 484.17 0.000000 1
2984 490.00 0.000000 1
2986 520.00 0.000000 1
2989 430.00 0.000000 1
2992 430.00 0.000000 1
2998 480.00 0.000000 1
3000 455.00 0.000000 1
3013 485.78 0.000000 1
3015 490.22 0.000000 1
3018 485.88 0.000000 1
3021 486.50 0.000000 2
3028 485.00 0.000000 2
3032 344.09 0.000000
3034 375.00 0.000000
3036 331.20 0.000000
3038 299.23 0.000000
3041 348.68 0.000000
3043 318.35 0.000000
3045 307.16 0.000000
3048 316.15 0.000000
3050 288.66 0.000000
3052 274.79 0.000000
3055 248.83 0.000000 1
3057 266.09 0.000000
3059 278.93 0.000000
3062 268.72 0.000000
3064 287.28 0.000000
3066 217.00 0.000000
3069 208.00 0.000000 1
3072 180.63 0.000000
3074 168.48 0.000000
3076 141.49 0.000000 1
3079 123.00 0.000000 1
3082 79.00 0.000000
3084 80.00 0.000000
3086 64.84 0.000000
3089 58.46 0.000000
3091 73.00 0.000000
3093 75.00 0.000000
3096 57.00 0.000000
3098 61.00 0.000000
3103 230.21 0.000000
3109 345.82 0.000000
3112 77.00 0.000000 1
3115 332.48 0.000000 1
3119 325.73 0.000000
3122 174.39 0.000000
3125 396.69 0.000000
3128 491.80 0.000000
3129 560.00 0.000000
3131 517.54 0.000000

Tanks

Identifier, water surface elevation (ft)

2501	610.00
2504	475.00
2506	610.00
2508	660.00
2510	275.00
2512	530.00

Pipes

Identifier, Upstream node identifier, Downstream node identifier, diameter (in), C-factor, secondary id

1 2501 1501 308.00 24.00 140.000000 ; 20381
 2 1501 1502 279.00 16.00 140.000000 ; 20371
 3 1502 1503 417.00 16.00 140.000000 ; 20372
 4 1503 1504 509.00 8.00 140.000000 ; 20341
 5 1503 1505 231.00 16.00 140.000000 ; 20362
 6 1505 1506 1415.00 16.00 140.000000 ; 20361
 7 1506 1507 952.00 12.00 140.000000 ; 19402
 8 1507 1508 1106.00 16.00 140.000000 ; 20501
 9 1508 1509 552.00 16.00 140.000000 ; 19751
 10 1509 1511 2938.00 8.00 140.000000 ; 19752
 11 1511 1510 1063.00 8.00 140.000000 ; 19801
 12 1510 1512 983.00 8.00 140.000000 ; 19851
 13 1512 1513 1163.00 12.00 140.000000 ; 19901
 14 1513 1514 66.00 8.00 140.000000 ; 19831
 15 1513 1516 221.00 12.00 140.000000 ; 19812
 16 1516 1517 939.00 12.00 140.000000 ; 19822
 17 1517 1518 313.00 8.00 140.000000 ; 19842
 18 1517 1519 443.00 12.00 140.000000 ; 19921
 19 1519 1520 1213.00 8.00 140.000000 ; 19843
 20 1519 1521 400.00 12.00 140.000000 ; 19841
 21 1506 1522 820.00 8.00 140.000000 ; 19351
 22 1522 1523 279.00 8.00 140.000000 ; 19301
 23 1523 1524 1130.00 8.00 140.000000 ; 19272
 24 1525 1526 244.00 8.00 140.000000 ; 19461
 25 1526 1527 394.00 8.00 140.000000 ; 19451
 26 1527 1522 818.00 8.00 140.000000 ; 19352
 27 1509 1528 331.00 12.00 140.000000 ; 19701
 28 1528 1529 819.00 12.00 140.000000 ; 19651
 29 1529 1530 775.00 12.00 140.000000 ; 19602
 30 1530 1531 1686.00 12.00 140.000000 ; 19601
 31 1531 1532 643.00 12.00 140.000000 ; 18901
 32 1532 1533 967.00 8.00 140.000000 ; 18851
 33 1524 1534 605.00 8.00 140.000000 ; 19271
 34 1534 1525 303.00 8.00 140.000000 ; 19552
 35 1534 1533 1858.00 8.00 140.000000 ; 19551
 36 1524 1535 585.00 8.00 140.000000 ; 19261
 37 1535 1536 701.00 8.00 140.000000 ; 19251
 38 1536 1537 420.00 8.00 140.000000 ; 19211
 39 1537 1538 262.00 8.00 140.000000 ; 19201
 40 1506 1539 763.00 12.00 140.000000 ; 19401
 41 1539 1540 1552.00 12.00 140.000000 ; 17501
 42 1540 1541 369.00 12.00 140.000000 ; 17502
 43 1541 1542 268.00 8.00 140.000000 ; 17702
 44 1542 1543 700.00 8.00 140.000000 ; 17711
 45 1543 1544 762.00 8.00 140.000000 ; 17751
 46 1532 1545 400.00 12.00 140.000000 ; 18801
 47 1545 1533 1004.00 8.00 140.000000 ; 18802
 48 1545 1546 467.00 12.00 140.000000 ; 18751
 49 1546 1547 888.00 8.00 140.000000 ; 18711
 50 1547 1548 672.00 8.00 140.000000 ; 18702
 51 1548 1546 458.00 12.00 140.000000 ; 18701
 52 1548 1549 220.00 8.00 140.000000 ; 18601

53 1531 1550 1609.00 8.00 140.000000 ; 19001
54 1507 3125 2928.00 12.00 140.000000 ; 20301
55 1554 1555 753.00 24.00 140.000000 ; 12251
56 1555 1556 541.00 24.00 140.000000 ; 12202
57 1557 1558 2923.00 8.00 140.000000 ; 12452
58 1558 3096 2249.00 16.00 140.000000 ; 12451
59 1556 1557 587.00 12.00 140.000000 ; 12203
60 1558 3098 984.00 16.00 140.000000 ; 12501
61 1560 1561 402.00 16.00 140.000000 ; 12661
62 1561 1562 2489.00 24.00 140.000000 ; 12651
64 1563 1564 1721.00 30.00 140.000000 ; 12901
65 1564 1565 386.00 30.00 140.000000 ; 12811
66 1565 1566 116.00 24.00 140.000000 ; 12552
67 1566 1567 512.00 12.00 140.000000 ; 12601
68 1565 1568 517.00 12.00 140.000000 ; 12621
69 1568 1569 1131.00 12.00 140.000000 ; 12803
70 1568 1570 581.00 8.00 140.000000 ; 12801
71 1559 1566 306.00 24.00 140.000000 ; 12551
72 1556 1571 1843.00 16.00 140.000000 ; 12201
73 1571 1572 201.00 12.00 140.000000 ; 12002
74 1572 1573 477.00 12.00 140.000000 ; 12011
75 1573 1574 729.00 12.00 140.000000 ; 12021
76 1574 1572 1497.00 8.00 140.000000 ; 12051
77 1571 1575 3513.00 16.00 140.000000 ; 12001
78 1575 1576 1298.00 12.00 140.000000 ; 11851
79 1551 1577 384.00 12.00 140.000000 ; 20291
80 1577 1578 808.00 12.00 140.000000 ; 20261
81 1578 1579 566.00 12.00 140.000000 ; 20251
82 1567 1581 1185.00 12.00 140.000000 ; 12602
84 1564 1568 125.00 12.00 140.000000 ; 12802
85 1563 1583 120.00 24.00 140.000000 ; 12911
86 1576 1584 1604.00 12.00 140.000000 ; 11801
87 1588 1589 309.00 16.00 140.000000 ; 11051
88 1589 1587 1096.00 16.00 140.000000 ; 11101
89 1586 1590 693.00 8.00 140.000000 ; 11602
90 1590 1591 194.00 8.00 140.000000 ; 11552
91 1591 1592 709.00 8.00 140.000000 ; 11001
92 1592 1593 486.00 8.00 140.000000 ; 10901
93 1593 1587 321.00 8.00 140.000000 ; 11102
94 1593 3000 1477.00 8.00 140.000000 ; 10812
95 1594 1588 213.00 8.00 140.000000 ; 10802
96 1594 1595 871.00 8.00 140.000000 ; 10811
97 1595 1596 869.00 8.00 140.000000 ; 10851
98 1596 1580 146.00 12.00 140.000000 ; 10711
99 1596 1597 933.00 16.00 140.000000 ; 10751
100 1597 1588 778.00 16.00 140.000000 ; 10801
101 1580 1598 1733.00 12.00 140.000000 ; 10701
102 1598 1599 1367.00 8.00 140.000000 ; 10602
103 1599 1600 367.00 12.00 140.000000 ; 10502
104 1600 1598 467.00 12.00 140.000000 ; 10601
105 1599 1601 443.00 12.00 140.000000 ; 10511
106 1601 1599 568.00 8.00 140.000000 ; 10512
107 1601 1602 473.00 12.00 140.000000 ; 10521
108 1603 1604 620.00 12.00 140.000000 ; 8901
109 1606 1607 481.00 8.00 140.000000 ; 16701
110 1607 1605 653.00 8.00 140.000000 ; 16751

111 1605 1608 467.00 12.00 140.000000 ; 16752
112 1608 1609 673.00 8.00 140.000000 ; 16851
113 1609 1610 1234.00 8.00 140.000000 ; 16901
114 1610 1611 461.00 8.00 140.000000 ; 16951
115 1611 1612 823.00 8.00 140.000000 ; 17001
116 1612 1598 246.00 8.00 140.000000 ; 10603
117 1612 1613 658.00 8.00 140.000000 ; 17002
118 1613 1614 787.00 8.00 140.000000 ; 17011
119 1614 1615 1108.00 8.00 140.000000 ; 17051
120 1602 2998 1155.00 12.00 140.000000 ; 10951
121 1590 1616 756.00 8.00 140.000000 ; 11551
122 1611 1615 855.00 8.00 140.000000 ; 16952
123 1615 1617 1410.00 8.00 140.000000 ; 17101
124 1600 1619 1125.00 12.00 140.000000 ; 10501
125 1619 1603 1068.00 12.00 140.000000 ; 9001
126 1603 1620 670.00 12.00 140.000000 ; 9002
127 1620 1618 322.00 12.00 140.000000 ; 9041
128 1619 1620 1728.00 8.00 140.000000 ; 9042
129 1604 1621 175.00 20.00 140.000000 ; 8821
130 1621 1622 169.00 20.00 140.000000 ; 8801
131 1622 1623 203.00 20.00 140.000000 ; 8751
132 1623 1624 1511.00 20.00 140.000000 ; 13052
133 1625 1626 303.00 20.00 140.000000 ; 13001
134 1626 1627 1351.00 20.00 140.000000 ; 6401
135 1627 1628 449.00 6.00 140.000000 ; 6402
136 1627 1629 236.00 20.00 140.000000 ; 6352
137 1629 2506 417.00 12.00 140.000000 ; 6351
138 1629 1630 1139.00 20.00 140.000000 ; 6261
139 1623 1631 735.00 8.00 140.000000 ; 8752
140 1631 1632 1020.00 8.00 140.000000 ; 9251
141 1632 1633 471.00 8.00 140.000000 ; 9102
142 1633 1618 331.00 12.00 140.000000 ; 9051
143 1618 1634 1160.00 2.00 150.000000 ; 9052
144 1633 1635 346.00 12.00 140.000000 ; 9101
145 1635 1636 975.00 12.00 140.000000 ; 9151
146 1636 1637 322.00 6.00 140.000000 ; 9201
147 1637 1638 726.00 6.00 140.000000 ; 11272
148 1638 1639 388.00 8.00 140.000000 ; 11301
149 1639 1640 384.00 6.00 140.000000 ; 11311
150 1640 1641 296.00 6.00 140.000000 ; 11321
151 1641 1642 290.00 8.00 140.000000 ; 11351
152 1642 1637 575.00 8.00 140.000000 ; 11291
153 1641 1643 283.00 8.00 140.000000 ; 11361
154 1643 1644 514.00 8.00 140.000000 ; 11371
155 1644 1645 554.00 8.00 140.000000 ; 11501
156 1645 1616 580.00 8.00 140.000000 ; 11511
157 1644 1646 653.00 8.00 140.000000 ; 11372
158 1646 1647 502.00 8.00 140.000000 ; 11381
159 1647 1648 314.00 8.00 140.000000 ; 11391
160 1648 1649 645.00 8.00 140.000000 ; 11402
161 1649 1650 424.00 8.00 140.000000 ; 9832
162 1650 1651 874.00 8.00 140.000000 ; 9831
163 1651 1652 349.00 8.00 140.000000 ; 9802
164 1652 1649 899.00 8.00 140.000000 ; 9821
165 1652 1653 678.00 8.00 140.000000 ; 9602
166 1653 1654 479.00 8.00 140.000000 ; 9561

167 1654 1655 836.00 8.00 140.000000 ; 9551
168 1655 1656 346.00 8.00 140.000000 ; 11251
169 1656 1657 211.00 8.00 140.000000 ; 11261
170 1657 1648 521.00 8.00 140.000000 ; 11401
171 1657 1658 489.00 8.00 140.000000 ; 11271
172 1658 1642 262.00 8.00 140.000000 ; 11281
173 1658 1659 522.00 8.00 140.000000 ; 9211
174 1655 1660 813.00 8.00 140.000000 ; 9501
175 1660 1661 378.00 8.00 140.000000 ; 9451
176 1661 1662 893.00 8.00 140.000000 ; 9452
177 1662 1663 660.00 8.00 140.000000 ; 9402
178 1663 1661 370.00 8.00 140.000000 ; 9401
179 1663 1664 1143.00 8.00 140.000000 ; 9351
180 1664 1632 1283.00 8.00 140.000000 ; 9252
181 1653 1666 868.00 8.00 140.000000 ; 9601
182 1666 1665 1332.00 8.00 140.000000 ; 9752
183 1665 1666 412.00 8.00 140.000000 ; 9751
184 1665 1667 299.00 8.00 140.000000 ; 9701
185 1667 1668 1053.00 8.00 140.000000 ; 9651
187 1669 1670 1291.00 12.00 140.000000 ; 6951
188 1626 1671 1653.00 12.00 140.000000 ; 6451
189 1671 1672 299.00 12.00 140.000000 ; 6461
190 1672 1673 1238.00 4.00 140.000000 ; 6472
191 1673 1674 1059.00 4.00 140.000000 ; 6501
192 1675 1676 1122.00 12.00 140.000000 ; 6481
193 1676 1672 726.00 12.00 140.000000 ; 6471
194 1677 1678 481.00 8.00 140.000000 ; 6661
195 1678 1679 337.00 8.00 140.000000 ; 6651
196 1679 1680 678.00 6.00 140.000000 ; 6601
197 1680 1681 696.00 6.00 140.000000 ; 6551
198 1681 1682 365.00 6.00 140.000000 ; 6542
199 1682 1683 166.00 12.00 140.000000 ; 6543
200 1683 1675 186.00 12.00 140.000000 ; 6561
201 1683 1684 609.00 8.00 140.000000 ; 6532
202 1684 1685 429.00 6.00 140.000000 ; 6531
203 1685 1674 234.00 6.00 140.000000 ; 6521
204 1674 1675 904.00 6.00 140.000000 ; 6491
205 1685 1686 359.00 8.00 140.000000 ; 6971
206 1686 1687 319.00 8.00 140.000000 ; 6961
207 1687 1669 1068.00 8.00 140.000000 ; 6952
208 1682 1688 1008.00 12.00 140.000000 ; 6911
209 1688 1670 164.00 12.00 140.000000 ; 6901
210 1670 1689 1675.00 8.00 140.000000 ; 6902
211 1689 1690 454.00 8.00 140.000000 ; 6801
212 1690 1691 1719.00 8.00 140.000000 ; 6751
213 1691 1677 1871.00 8.00 140.000000 ; 6701
214 1690 1692 1563.00 8.00 140.000000 ; 6752
215 1692 1693 681.00 8.00 140.000000 ; 6001
216 1693 1694 1337.00 8.00 140.000000 ; 6011
217 1694 1695 794.00 8.00 140.000000 ; 6021
218 1695 1696 1446.00 8.00 140.000000 ; 6031
219 1617 1697 1568.00 8.00 140.000000 ; 17151
220 1697 1540 860.00 12.00 140.000000 ; 17251
221 1630 1698 928.00 20.00 140.000000 ; 6252
222 1698 1699 1027.00 12.00 140.000000 ; 6251
223 1630 1700 1049.00 12.00 140.000000 ; 6271

224 1700 1699 633.00 12.00 140.000000 ; 6272
225 1700 1701 646.00 8.00 140.000000 ; 6273
226 1701 1702 188.00 8.00 140.000000 ; 13561
227 1702 1703 361.00 8.00 140.000000 ; 13501
228 1703 1704 336.00 8.00 140.000000 ; 13451
229 1704 1705 908.00 8.00 140.000000 ; 13401
230 1705 1706 691.00 8.00 140.000000 ; 13351
231 1706 1707 394.00 8.00 140.000000 ; 13202
232 1707 1708 1479.00 8.00 140.000000 ; 13152
233 1708 1709 593.00 8.00 140.000000 ; 13151
234 1709 1710 1811.00 8.00 140.000000 ; 13101
235 1710 1624 272.00 8.00 140.000000 ; 13031
236 1710 1712 986.00 8.00 140.000000 ; 13041
237 1712 1713 290.00 8.00 140.000000 ; 13061
238 1713 1711 270.00 8.00 140.000000 ; 13071
239 1709 1714 1544.00 8.00 140.000000 ; 13102
240 1714 1715 528.00 8.00 140.000000 ; 13121
241 1714 1716 841.00 8.00 140.000000 ; 13111
242 1716 1717 210.00 12.00 140.000000 ; 13091
243 1717 1711 909.00 8.00 140.000000 ; 13082
244 1716 1718 1507.00 12.00 140.000000 ; 16742
245 1718 1605 823.00 12.00 140.000000 ; 16741
246 1587 1719 439.00 16.00 140.000000 ; 11151
247 1719 1591 771.00 8.00 140.000000 ; 11153
248 1719 1589 1455.00 8.00 140.000000 ; 11152
249 1586 1719 194.00 16.00 140.000000 ; 11601
250 1604 1720 636.00 8.00 140.000000 ; 8902
251 1720 1606 447.00 8.00 140.000000 ; 16711
252 1720 1621 963.00 8.00 140.000000 ; 8921
253 1625 1721 436.00 20.00 140.000000 ; 13011
254 1721 1624 524.00 20.00 140.000000 ; 13051
255 1677 1722 609.00 8.00 140.000000 ; 6671
256 1722 1676 442.00 2.00 150.000000 ; 6681
257 1699 1723 944.00 12.00 140.000000 ; 6281
258 1723 1724 1300.00 12.00 140.000000 ; 6301
259 1668 1725 1346.00 12.00 140.000000 ; 6953
260 1725 1726 300.00 12.00 140.000000 ; 7001
261 1726 1727 757.00 12.00 140.000000 ; 7052
262 1727 1728 227.00 12.00 140.000000 ; 7071
263 1728 1729 664.00 6.00 140.000000 ; 7102
264 1729 1730 454.00 6.00 140.000000 ; 10002
265 1729 1731 1350.00 6.00 140.000000 ; 10001
266 1731 1732 1198.00 8.00 140.000000 ; 9901
267 1732 1733 594.00 8.00 140.000000 ; 9851
268 1733 1652 1700.00 8.00 140.000000 ; 9801
269 1728 1735 1374.00 12.00 140.000000 ; 7101
270 1735 1736 323.00 8.00 140.000000 ; 7152
271 1736 1737 299.00 6.00 140.000000 ; 7172
272 1737 1738 1086.00 6.00 140.000000 ; 7222
273 1738 1739 308.00 8.00 140.000000 ; 7211
274 1739 1740 307.00 8.00 140.000000 ; 7201
275 1740 1736 263.00 8.00 140.000000 ; 7171
276 1740 1741 837.00 8.00 140.000000 ; 7202
277 1741 1742 621.00 8.00 140.000000 ; 7402
278 1742 1739 799.00 8.00 140.000000 ; 7212
279 1742 1743 342.00 8.00 140.000000 ; 7401

280 1744 1745 1245.00 8.00 140.000000 ; 7463
281 1745 1746 313.00 8.00 140.000000 ; 7502
282 1741 1747 806.00 8.00 140.000000 ; 7411
283 1738 1748 525.00 8.00 140.000000 ; 7221
284 1748 1749 1418.00 8.00 140.000000 ; 7231
285 1748 1750 277.00 8.00 140.000000 ; 7232
286 1750 1751 349.00 8.00 140.000000 ; 7301
287 1726 1752 802.00 8.00 140.000000 ; 7051
288 1727 1753 1271.00 8.00 140.000000 ; 7072
289 1745 1754 280.00 8.00 140.000000 ; 7501
290 1754 1755 559.00 8.00 140.000000 ; 7551
291 1755 1756 2317.00 8.00 140.000000 ; 8151
292 1756 1757 1896.00 8.00 140.000000 ; 8251
293 1757 1758 1664.00 8.00 140.000000 ; 8202
294 1758 1755 664.00 8.00 140.000000 ; 8201
295 1756 1759 2480.00 8.00 140.000000 ; 8001
296 1759 1760 1300.00 8.00 140.000000 ; 7852
297 1756 1761 955.00 8.00 140.000000 ; 8051
298 1735 1762 1285.00 12.00 140.000000 ; 7151
299 1763 1764 483.00 12.00 140.000000 ; 7602
300 1764 1766 1176.00 12.00 140.000000 ; 7601
301 1767 1768 666.00 12.00 140.000000 ; 7653
302 1735 1769 1555.00 6.00 140.000000 ; 7153
303 1770 1771 426.00 6.00 140.000000 ; 8303
304 1772 1773 224.00 6.00 140.000000 ; 8404
305 1774 1775 364.00 6.00 140.000000 ; 8511
306 1774 1776 107.00 6.00 140.000000 ; 8451
307 1776 1777 218.00 8.00 140.000000 ; 8501
308 1776 1778 139.00 6.00 140.000000 ; 8502
309 1778 1779 644.00 6.00 140.000000 ; 8521
310 1779 1780 315.00 8.00 140.000000 ; 8652
311 1780 1777 510.00 8.00 140.000000 ; 8601
312 1777 1768 1148.00 8.00 140.000000 ; 7641
313 1780 1781 2285.00 8.00 140.000000 ; 8651
314 1781 1782 382.00 8.00 140.000000 ; 10202
315 1782 1783 644.00 8.00 140.000000 ; 10211
316 1781 1784 1289.00 8.00 140.000000 ; 10201
317 1784 1785 1116.00 8.00 140.000000 ; 10301
318 1785 1786 1647.00 8.00 140.000000 ; 10151
319 1786 1576 746.00 8.00 140.000000 ; 11802
320 1786 1787 1011.00 8.00 140.000000 ; 10143
321 1789 1790 532.00 8.00 140.000000 ; 10122
322 1791 1785 1526.00 8.00 140.000000 ; 10113
323 1789 1792 1874.00 8.00 140.000000 ; 10083
324 1793 1651 732.00 8.00 140.000000 ; 9811
325 1541 1794 1139.00 8.00 140.000000 ; 17703
326 1794 1795 800.00 8.00 140.000000 ; 17851
327 1795 1541 766.00 12.00 140.000000 ; 17701
328 1795 1796 229.00 8.00 140.000000 ; 17902
329 1796 1797 675.00 8.00 140.000000 ; 19171
330 1797 1538 562.00 8.00 140.000000 ; 19172
331 1538 1796 556.00 8.00 140.000000 ; 19151
332 1537 1798 1212.00 8.00 140.000000 ; 19221
333 1798 1799 381.00 8.00 140.000000 ; 17953
334 1799 1795 718.00 12.00 140.000000 ; 17901
335 1799 1800 170.00 8.00 140.000000 ; 17952

336 1800 1801 596.00 8.00 140.000000 ; 17961
337 1801 1800 609.00 8.00 140.000000 ; 17962
338 1801 1802 335.00 8.00 140.000000 ; 17971
339 1802 1803 420.00 8.00 140.000000 ; 17982
340 1803 1799 622.00 12.00 140.000000 ; 17951
341 1803 1804 465.00 8.00 140.000000 ; 18002
342 1804 1805 818.00 8.00 140.000000 ; 18451
343 1805 1806 748.00 8.00 140.000000 ; 18501
344 1806 1549 214.00 8.00 140.000000 ; 18551
345 1549 1807 944.00 8.00 140.000000 ; 18651
346 1807 1804 584.00 8.00 140.000000 ; 18452
347 1697 1808 929.00 12.00 140.000000 ; 17351
348 1808 1809 442.00 8.00 140.000000 ; 17352
349 1809 1810 1822.00 8.00 140.000000 ; 17362
350 1809 1810 403.00 8.00 140.000000 ; 17361
351 1802 1811 376.00 8.00 140.000000 ; 17981
352 1811 1812 366.00 8.00 140.000000 ; 18012
353 1812 1811 893.00 8.00 140.000000 ; 18011
354 1812 1813 156.00 8.00 140.000000 ; 18052
355 1813 1803 566.00 12.00 140.000000 ; 18001
356 1813 1814 786.00 12.00 140.000000 ; 18051
357 1814 1815 169.00 8.00 140.000000 ; 18101
358 1815 1816 466.00 8.00 140.000000 ; 18111
359 1816 1817 598.00 8.00 140.000000 ; 18122
360 1817 1816 663.00 8.00 140.000000 ; 18121
361 1817 1818 229.00 8.00 140.000000 ; 18131
362 1818 1819 403.00 8.00 140.000000 ; 18141
363 1819 1820 251.00 8.00 140.000000 ; 18151
364 1820 1821 158.00 8.00 140.000000 ; 18202
365 1820 1822 257.00 8.00 140.000000 ; 18201
366 1822 1823 2405.00 8.00 140.000000 ; 18281
367 1823 1824 296.00 8.00 140.000000 ; 18282
368 1824 1825 476.00 8.00 140.000000 ; 18262
369 1825 1821 303.00 8.00 140.000000 ; 18251
370 1823 1826 534.00 8.00 140.000000 ; 18372
371 1826 1814 1294.00 12.00 140.000000 ; 18371
372 1815 1827 153.00 8.00 140.000000 ; 18112
373 1827 1828 351.00 8.00 140.000000 ; 18352
374 1828 1829 450.00 4.00 140.000000 ; 18301
375 1829 1827 383.00 8.00 140.000000 ; 18351
376 1829 1825 193.00 8.00 140.000000 ; 18261
377 1822 1830 323.00 8.00 140.000000 ; 17313
378 1830 1831 415.00 12.00 140.000000 ; 17311
379 1831 1832 557.00 12.00 140.000000 ; 17321
380 1832 1608 1637.00 12.00 140.000000 ; 16801
381 1830 1833 1848.00 12.00 140.000000 ; 17312
382 1834 1835 364.00 8.00 140.000000 ; 16602
383 1835 1836 607.00 8.00 140.000000 ; 16611
384 1834 1837 369.00 12.00 140.000000 ; 16601
385 1833 1834 613.00 6.00 140.000000 ; 16301
386 1837 1718 878.00 12.00 140.000000 ; 16551
387 1837 1838 645.00 4.00 140.000000 ; 16502
388 1838 1839 978.00 4.00 140.000000 ; 16253
389 1839 1833 661.00 6.00 140.000000 ; 16252
390 1838 1840 670.00 4.00 140.000000 ; 16501
391 1840 1841 1531.00 8.00 140.000000 ; 16451

392 1841 1842 452.00 8.00 140.000000 ; 13652
393 1842 1708 834.00 12.00 140.000000 ; 13651
394 1842 1843 560.00 8.00 140.000000 ; 13653
395 1844 1845 433.00 8.00 140.000000 ; 13701
396 1845 1846 1306.00 4.00 140.000000 ; 16152
397 1846 1847 506.00 8.00 140.000000 ; 16201
399 1846 1849 680.00 8.00 140.000000 ; 16151
400 1849 1850 1343.00 8.00 140.000000 ; 16102
401 1850 1845 681.00 8.00 140.000000 ; 13702
402 1847 1839 541.00 6.00 140.000000 ; 16202
403 1839 1851 1025.00 6.00 140.000000 ; 16251
404 1851 1849 668.00 8.00 140.000000 ; 16101
405 1851 1852 318.00 8.00 140.000000 ; 16051
406 1852 1853 161.00 8.00 140.000000 ; 16011
407 1853 1854 386.00 8.00 140.000000 ; 16001
408 1854 1855 449.00 4.00 140.000000 ; 15952
409 1854 1856 604.00 8.00 140.000000 ; 15951
410 1856 1857 782.00 8.00 140.000000 ; 15901
411 1857 1858 445.00 4.00 140.000000 ; 15852
412 1857 1860 342.00 8.00 140.000000 ; 15851
413 1860 1861 337.00 6.00 140.000000 ; 15802
414 1861 1862 330.00 6.00 140.000000 ; 14871
415 1862 1863 511.00 6.00 140.000000 ; 14851
416 1863 1864 792.00 6.00 140.000000 ; 14802
417 1864 1865 713.00 8.00 140.000000 ; 14801
418 1865 1866 372.00 8.00 140.000000 ; 15751
419 1866 1867 435.00 8.00 140.000000 ; 15761
420 1867 1868 267.00 8.00 140.000000 ; 15771
421 1868 1869 279.00 8.00 140.000000 ; 15781
422 1869 1860 603.00 8.00 140.000000 ; 15801
423 1865 1870 448.00 8.00 140.000000 ; 14911
424 1870 1871 374.00 8.00 140.000000 ; 15601
425 1871 1872 331.00 8.00 140.000000 ; 15603
426 1874 1875 577.00 8.00 140.000000 ; 15581
427 1871 1876 268.00 8.00 140.000000 ; 15602
428 1876 1873 383.00 12.00 140.000000 ; 15621
429 1875 1876 844.00 8.00 140.000000 ; 15591
430 1875 1870 1089.00 8.00 140.000000 ; 14912
431 1874 1877 750.00 8.00 140.000000 ; 15583
432 1877 1878 230.00 8.00 140.000000 ; 15551
433 1865 1879 1766.00 8.00 140.000000 ; 14901
434 1879 1880 261.00 8.00 140.000000 ; 14951
435 1873 1881 871.00 12.00 140.000000 ; 20601
436 1881 1882 1667.00 12.00 140.000000 ; 20602
437 1882 1883 766.00 8.00 140.000000 ; 20802
438 1884 1885 584.00 12.00 140.000000 ; 20902
439 1885 2989 1260.00 12.00 140.000000 ; 20901
440 1886 1881 424.00 12.00 140.000000 ; 18431
441 1886 1859 1224.00 16.00 140.000000 ; 18401
442 1882 1887 754.00 12.00 140.000000 ; 20652
443 1887 1883 633.00 12.00 140.000000 ; 20801
444 1887 1888 410.00 16.00 140.000000 ; 20752
445 1888 1889 537.00 16.00 140.000000 ; 20861
446 1889 1890 788.00 16.00 140.000000 ; 20872
447 1890 1891 1216.00 8.00 140.000000 ; 20851
448 1891 1890 294.00 16.00 140.000000 ; 20871

449 1891 1892 178.00 16.00 140.000000 ; 30301
450 1892 1893 189.00 16.00 140.000000 ; 20831
451 1893 1894 1001.00 8.00 140.000000 ; 20931
452 1894 1895 475.00 8.00 140.000000 ; 20932
453 1895 1896 569.00 16.00 140.000000 ; 20961
454 1897 1898 324.00 8.00 140.000000 ; 30251
455 1896 1899 363.00 8.00 140.000000 ; 20971
456 1899 1900 623.00 8.00 140.000000 ; 30101
457 1900 1895 831.00 8.00 140.000000 ; 20962
458 1895 1901 257.00 16.00 140.000000 ; 20942
459 1901 1894 483.00 8.00 140.000000 ; 20941
460 1899 1902 213.00 8.00 140.000000 ; 30201
461 1900 1903 567.00 8.00 140.000000 ; 30051
462 1901 1904 213.00 16.00 140.000000 ; 20951
463 1904 1885 993.00 12.00 140.000000 ; 20903
464 1905 1906 1990.00 8.00 140.000000 ; 20891
465 1906 1904 166.00 8.00 140.000000 ; 20922
466 1885 1907 172.00 8.00 140.000000 ; 20911
467 1906 1907 857.00 8.00 140.000000 ; 20921
468 1884 1892 1155.00 8.00 140.000000 ; 20821
469 1904 1908 693.00 16.00 140.000000 ; 30351
470 1908 1909 502.00 16.00 140.000000 ; 30401
471 1909 1910 593.00 16.00 140.000000 ; 30451
472 1850 1912 279.00 8.00 140.000000 ; 13751
473 1912 1913 1533.00 8.00 140.000000 ; 13802
474 1913 1914 549.00 8.00 140.000000 ; 13851
475 1914 1915 242.00 8.00 140.000000 ; 13221
476 1707 1916 1335.00 8.00 140.000000 ; 13201
477 1916 1911 1772.00 8.00 140.000000 ; 13211
478 1915 1916 2146.00 8.00 140.000000 ; 13212
479 1912 1917 998.00 8.00 140.000000 ; 13801
480 1917 1918 2325.00 8.00 140.000000 ; 13951
481 1918 1919 978.00 8.00 140.000000 ; 14001
482 1919 1920 1043.00 6.00 140.000000 ; 14052
483 1919 1921 599.00 8.00 140.000000 ; 14051
484 1917 1922 1350.00 8.00 140.000000 ; 13952
485 1922 1923 310.00 8.00 140.000000 ; 14301
486 1923 1924 3226.00 8.00 140.000000 ; 14311
487 1864 1925 185.00 8.00 140.000000 ; 14811
488 1927 1925 969.00 8.00 140.000000 ; 14991
489 1808 1832 1032.00 12.00 140.000000 ; 17301
490 1897 1893 153.00 16.00 140.000000 ; 20841
491 1888 1928 2101.00 16.00 140.000000 ; 20751
492 1928 1929 581.00 8.00 140.000000 ; 15402
493 1929 1930 593.00 8.00 140.000000 ; 15451
494 1930 1878 561.00 8.00 140.000000 ; 15501
495 1930 1931 604.00 8.00 140.000000 ; 15262
496 1931 1880 528.00 8.00 140.000000 ; 14962
497 1880 1932 388.00 8.00 140.000000 ; 14961
498 1933 1927 1498.00 8.00 140.000000 ; 14981
499 1934 1924 2879.00 8.00 140.000000 ; 14401
500 1933 1935 562.00 8.00 140.000000 ; 14982
501 1932 1933 487.00 8.00 140.000000 ; 14971
502 1933 1936 1731.00 8.00 140.000000 ; 15151
503 1936 1931 1296.00 8.00 140.000000 ; 15261
504 1936 1937 555.00 8.00 140.000000 ; 15152

505 1936 1938 551.00 8.00 140.000000 ; 15153
506 1938 1928 1144.00 16.00 140.000000 ; 15302
507 1889 1939 673.00 24.00 140.000000 ; 20862
508 1939 1898 1233.00 8.00 140.000000 ; 20843
509 1940 1941 484.00 16.00 140.000000 ; 15351
510 1941 1942 1418.00 8.00 140.000000 ; 15371
511 1942 1943 1033.00 8.00 140.000000 ; 15372
512 1943 1941 1661.00 16.00 140.000000 ; 15341
513 1945 1946 1138.00 8.00 140.000000 ; 14211
514 1947 1948 776.00 8.00 140.000000 ; 14202
515 1948 1949 2015.00 8.00 140.000000 ; 14204
516 1949 1943 2062.00 16.00 140.000000 ; 15361
517 1946 1947 241.00 8.00 140.000000 ; 14191
518 1946 1950 471.00 8.00 140.000000 ; 14212
519 1950 1944 990.00 8.00 140.000000 ; 15391
520 1944 1951 413.00 8.00 140.000000 ; 14231
521 1951 1945 383.00 8.00 140.000000 ; 14221
522 1950 1951 618.00 8.00 140.000000 ; 15381
523 1948 1952 504.00 8.00 140.000000 ; 14201
524 1948 1953 1105.00 8.00 140.000000 ; 14203
525 1953 1949 837.00 16.00 140.000000 ; 14241
526 1953 1954 2133.17 16.00 140.000000 ; 14251
527 1926 1955 1238.00 8.00 140.000000 ; 14601
528 1955 1934 1289.00 8.00 140.000000 ; 14501
529 1938 1956 377.00 16.00 140.000000 ; 15301
530 1956 1940 2613.00 16.00 140.000000 ; 15311
531 1698 1957 1379.00 12.00 140.000000 ; 5602
532 1957 1958 1916.00 8.00 140.000000 ; 5601
533 1958 1959 1461.00 8.00 140.000000 ; 5651
534 1959 1960 1371.00 6.00 140.000000 ; 5701
535 1960 1961 678.00 6.00 140.000000 ; 5752
536 1962 1963 329.00 6.00 140.000000 ; 5861
537 1963 1964 724.00 6.00 140.000000 ; 5901
538 1964 1965 829.00 8.00 140.000000 ; 5951
539 1965 1693 1125.00 8.00 140.000000 ; 5961
540 1694 1959 1309.00 6.00 140.000000 ; 5702
541 1960 1966 356.00 8.00 140.000000 ; 5751
542 1967 1968 915.00 8.00 140.000000 ; 5771
543 1968 1969 388.00 8.00 140.000000 ; 4701
544 1969 1970 2427.00 8.00 140.000000 ; 1723
546 1973 1974 858.00 12.00 140.000000 ; 1601
547 1972 1976 716.00 12.00 140.000000 ; 1701
548 1976 1977 749.00 8.00 140.000000 ; 1752
549 1977 1978 1086.00 8.00 140.000000 ; 1761
550 1978 1979 460.00 8.00 140.000000 ; 1811
551 1979 1980 321.00 8.00 140.000000 ; 1852
553 1981 1982 198.00 12.00 140.000000 ; 1861
554 1983 1984 420.00 12.00 140.000000 ; 1443
555 1985 1986 118.00 12.00 140.000000 ; 1451
556 1986 1987 127.00 12.00 140.000000 ; 1453
557 1983 1989 1029.00 12.00 140.000000 ; 1403
558 1989 1990 1603.00 12.00 140.000000 ; 1301
559 1990 1991 697.00 8.00 140.000000 ; 1252
560 1991 1992 300.00 8.00 140.000000 ; 1151
561 1992 1993 1208.00 8.00 140.000000 ; 1101
562 1993 1994 591.00 8.00 140.000000 ; 1052

563 1994 1990 1292.00 12.00 140.000000 ; 1251
564 1995 1996 439.00 12.00 140.000000 ; 3901
565 1996 1997 268.00 12.00 140.000000 ; 3911
566 1997 1998 589.00 12.00 140.000000 ; 3951
567 1998 1999 778.00 12.00 140.000000 ; 3961
568 1999 2000 398.00 12.00 140.000000 ; 4001
569 2000 2001 283.00 12.00 140.000000 ; 4121
570 2001 2002 213.00 8.00 140.000000 ; 4113
571 2002 2003 431.00 8.00 140.000000 ; 4761
572 2003 2004 343.00 8.00 140.000000 ; 4751
573 2004 2005 539.00 8.00 140.000000 ; 4731
574 2005 2006 532.00 8.00 140.000000 ; 4721
575 2006 1968 578.00 8.00 140.000000 ; 4711
576 1969 1997 682.00 8.00 140.000000 ; 3952
577 1999 2007 625.00 8.00 140.000000 ; 4002
578 2007 2008 286.00 8.00 140.000000 ; 4011
579 2007 2009 665.00 8.00 140.000000 ; 4101
580 2010 2011 115.00 8.00 140.000000 ; 4141
581 2011 2002 1355.00 6.00 140.000000 ; 4762
582 2001 2009 327.00 8.00 140.000000 ; 4112
583 2001 2010 771.00 12.00 140.000000 ; 4111
584 2009 2012 976.00 8.00 140.000000 ; 4102
585 2012 2013 214.00 8.00 140.000000 ; 2902
586 2013 2014 757.00 8.00 150.000000 ; 2851
587 2014 2015 304.00 8.00 140.000000 ; 2852
588 2016 2017 667.00 8.00 140.000000 ; 4043
589 2017 2007 310.00 8.00 140.000000 ; 4012
590 2014 2018 1296.00 8.00 140.000000 ; 2822
591 2018 2019 299.00 12.00 140.000000 ; 2821
592 2019 2020 381.00 12.00 140.000000 ; 2961
593 2012 2021 318.00 8.00 140.000000 ; 4131
594 2021 2022 272.00 4.00 140.000000 ; 4171
595 2020 2024 403.00 12.00 140.000000 ; 3301
597 2025 2026 284.00 12.00 140.000000 ; 3061
598 2025 2027 1050.00 8.00 140.000000 ; 3021
599 2027 2028 369.00 8.00 140.000000 ; 3001
600 2028 2029 704.00 8.00 140.000000 ; 2802
601 2029 2030 337.00 12.00 140.000000 ; 2801
602 2030 2018 171.00 12.00 140.000000 ; 2811
604 2031 2024 1301.00 8.00 140.000000 ; 3073
605 2031 2032 612.00 12.00 140.000000 ; 3072
606 2032 2033 939.00 12.00 140.000000 ; 3152
607 2032 2034 97.00 8.00 140.000000 ; 3151
608 2026 2035 284.00 8.00 140.000000 ; 3051
609 2035 2036 175.00 8.00 140.000000 ; 3081
610 2037 2038 278.00 8.00 140.000000 ; 2061
611 2038 2039 262.00 8.00 140.000000 ; 2071
612 2039 2040 327.00 8.00 140.000000 ; 2081
613 2037 2041 528.00 8.00 140.000000 ; 2052
614 2041 2042 308.00 12.00 140.000000 ; 2051
615 2042 2043 295.00 12.00 140.000000 ; 2001
616 2029 2044 285.00 12.00 140.000000 ; 2502
617 2044 2045 459.00 12.00 140.000000 ; 2461
618 2045 2046 321.00 12.00 140.000000 ; 2451
619 2046 2047 1119.00 8.00 140.000000 ; 2452
620 2047 2044 693.00 8.00 140.000000 ; 2501

621 2048 2049 211.00 8.00 140.000000 ; 2362
622 2049 2050 800.00 12.00 140.000000 ; 2361
623 2050 2051 343.00 12.00 140.000000 ; 2371
624 2051 2052 200.00 12.00 140.000000 ; 2381
625 2052 2508 298.00 12.00 140.000000 ; 2402
626 2052 2046 385.00 12.00 140.000000 ; 2401
627 2051 2053 333.00 8.00 140.000000 ; 2382
628 2053 2054 455.00 8.00 140.000000 ; 2602
629 2054 2055 982.00 8.00 140.000000 ; 2651
630 2055 2056 700.00 8.00 140.000000 ; 2701
631 2057 1996 243.00 8.00 140.000000 ; 3912
632 2055 2058 927.00 8.00 140.000000 ; 2581
633 2058 2059 844.00 8.00 140.000000 ; 2562
634 2059 2060 888.00 8.00 140.000000 ; 2561
635 2060 2058 342.00 8.00 140.000000 ; 2571
636 2060 2053 657.00 8.00 140.000000 ; 2601
637 2049 2061 269.00 12.00 140.000000 ; 2351
638 2061 2062 919.00 8.00 140.000000 ; 2352
639 2062 2063 301.00 8.00 140.000000 ; 2302
640 2063 2061 734.00 12.00 140.000000 ; 2301
641 2063 2064 439.00 12.00 140.000000 ; 2252
642 2064 2065 585.00 12.00 140.000000 ; 2251
643 2065 2066 71.00 8.00 140.000000 ; 501
644 2067 2068 498.00 8.00 140.000000 ; 523
645 2068 2069 176.00 8.00 140.000000 ; 421
646 2069 2070 280.00 8.00 140.000000 ; 401
647 2070 2071 460.00 8.00 140.000000 ; 351
648 2071 2072 202.00 8.00 140.000000 ; 331
649 2072 2073 1600.00 8.00 140.000000 ; 322
650 2074 2075 268.00 8.00 140.000000 ; 251
651 2075 2076 302.00 8.00 140.000000 ; 231
652 2076 2077 263.00 8.00 140.000000 ; 221
653 2077 2078 173.00 8.00 140.000000 ; 211
654 2078 2079 514.00 8.00 140.000000 ; 201
655 2079 2080 702.00 8.00 140.000000 ; 112
656 2080 2082 295.00 8.00 140.000000 ; 101
659 2082 2085 1587.00 8.00 140.000000 ; 102
660 2085 2068 470.00 8.00 140.000000 ; 422
661 2070 2086 663.00 8.00 140.000000 ; 352
662 2065 2087 262.00 12.00 140.000000 ; 502
663 2087 2041 941.00 12.00 140.000000 ; 2151
664 2074 2088 2923.00 8.00 140.000000 ; 702
665 1961 1962 323.00 6.00 140.000000 ; 5851
666 2017 2089 402.00 2.00 150.000000 ; 4031
667 2062 2059 488.00 8.00 140.000000 ; 2551
668 2080 2090 318.00 8.00 140.000000 ; 111
669 2090 2081 491.00 8.00 140.000000 ; 121
670 1980 1986 233.00 12.00 140.000000 ; 1851
671 1994 2092 813.00 12.00 140.000000 ; 1051
672 2092 2093 3331.00 12.00 140.000000 ; 1001
673 2093 2094 326.00 12.00 140.000000 ; 851
674 2094 2088 263.00 12.00 140.000000 ; 801
675 2093 2095 1237.00 8.00 140.000000 ; 852
676 2095 2096 352.00 8.00 140.000000 ; 901
677 2088 2097 656.00 12.00 140.000000 ; 701
678 2097 2098 1916.00 12.00 140.000000 ; 651

679 2099 2100 491.00 8.00 140.000000 ; 5481
680 2100 2101 336.00 8.00 140.000000 ; 5471
681 2101 2102 362.00 8.00 140.000000 ; 5461
682 2102 2103 2271.00 8.00 140.000000 ; 5451
683 2103 2104 1650.00 8.00 140.000000 ; 5421
684 2104 2105 332.00 8.00 140.000000 ; 5411
685 1759 2106 3394.00 8.00 140.000000 ; 7851
686 2106 2099 1461.00 8.00 140.000000 ; 7751
687 2099 2107 321.00 8.00 140.000000 ; 5233
688 2108 2109 1253.00 8.00 140.000000 ; 5163
689 2110 2111 453.00 8.00 140.000000 ; 5141
690 2111 2112 269.00 8.00 140.000000 ; 5122
691 2112 2113 851.00 4.00 140.000000 ; 5123
692 2114 2115 638.00 8.00 140.000000 ; 5113
693 2115 2116 248.00 8.00 140.000000 ; 5201
694 2116 2117 349.00 8.00 140.000000 ; 5211
695 2115 2108 830.00 8.00 140.000000 ; 5202
696 2113 2118 386.00 8.00 140.000000 ; 5101
697 2118 2119 266.00 8.00 140.000000 ; 5052
698 2119 2120 182.00 8.00 140.000000 ; 5061
699 2118 2121 985.00 6.00 140.000000 ; 5102
700 2121 2112 345.00 8.00 140.000000 ; 5121
701 2121 2122 168.00 6.00 140.000000 ; 5131
702 2122 2123 204.00 8.00 140.000000 ; 4851
703 2122 2124 1671.00 8.00 140.000000 ; 4801
704 2124 2003 1254.00 8.00 140.000000 ; 4752
705 2127 2128 751.00 6.00 140.000000 ; 4422
706 2128 2129 260.00 6.00 140.000000 ; 4421
707 2129 2130 263.00 6.00 140.000000 ; 4431
708 2130 2131 481.00 6.00 140.000000 ; 4441
709 2128 2132 661.00 6.00 140.000000 ; 4383
710 2133 2134 576.00 6.00 140.000000 ; 4371
711 2134 2135 261.00 6.00 140.000000 ; 4361
712 2135 2136 259.00 6.00 140.000000 ; 4351
713 2136 2137 258.00 6.00 140.000000 ; 4303
714 2138 2139 321.00 8.00 140.000000 ; 3601
715 2139 2140 678.00 8.00 140.000000 ; 3563
716 2141 2142 741.00 8.00 140.000000 ; 3552
717 2142 2143 458.00 8.00 140.000000 ; 3551
718 2143 2144 502.00 8.00 140.000000 ; 3502
719 2143 2145 190.00 8.00 140.000000 ; 3501
720 2145 2146 565.00 8.00 140.000000 ; 3511
721 2146 2147 659.00 8.00 140.000000 ; 3432
722 2147 2145 507.00 8.00 140.000000 ; 3431
723 2147 2148 174.00 8.00 140.000000 ; 3421
724 2148 2142 986.00 8.00 140.000000 ; 3422
725 2148 2149 305.00 8.00 140.000000 ; 3411
726 2149 2150 197.00 8.00 140.000000 ; 3401
727 2150 2020 1370.00 12.00 140.000000 ; 2951
728 2150 2151 537.00 8.00 140.000000 ; 3402
729 2151 2152 702.00 8.00 140.000000 ; 3701
730 2153 2023 492.00 8.00 140.000000 ; 4211
731 2149 2154 264.00 8.00 140.000000 ; 3412
732 2154 2155 814.00 6.00 140.000000 ; 3651
733 2155 2156 380.00 2.00 140.000000 ; 3662
734 2155 2157 258.00 2.00 140.000000 ; 3661

735 2158 2159 769.00 4.00 140.000000 ; 4281
736 2159 2160 639.00 8.00 140.000000 ; 4272
737 2160 2137 152.00 8.00 140.000000 ; 4271
738 2137 2161 808.00 8.00 140.000000 ; 4302
739 2160 2162 251.00 8.00 140.000000 ; 4261
740 2162 2163 422.00 8.00 140.000000 ; 4251
741 2163 2164 338.00 8.00 140.000000 ; 4202
742 2164 2011 698.00 8.00 140.000000 ; 4151
743 2137 2165 1036.00 6.00 140.000000 ; 4301
744 2125 2167 263.00 8.00 140.000000 ; 4911
745 2166 2123 452.00 8.00 140.000000 ; 4861
746 2167 2168 1056.00 8.00 140.000000 ; 4914
747 2168 1963 838.00 6.00 140.000000 ; 4963
748 2168 2169 1175.00 6.00 140.000000 ; 4962
749 2169 2170 287.00 8.00 140.000000 ; 4971
750 2171 2172 231.00 8.00 140.000000 ; 4653
751 2172 2173 676.00 4.00 140.000000 ; 4952
752 2173 2123 1272.00 8.00 140.000000 ; 4951
753 2171 2174 1761.00 8.00 140.000000 ; 4611
754 2172 2120 836.00 8.00 140.000000 ; 4981
755 2173 2119 405.00 8.00 140.000000 ; 5051
756 2169 2175 708.00 8.00 140.000000 ; 4972
757 2175 1692 835.00 8.00 140.000000 ; 6051
758 2175 1965 924.00 8.00 140.000000 ; 6041
759 1724 2176 2352.00 12.00 140.000000 ; 21001
760 2176 2177 1000.00 12.00 140.000000 ; 21002
761 2177 2178 538.00 12.00 140.000000 ; 21101
762 2178 1921 560.00 12.00 140.000000 ; 21201
763 2178 2179 3667.00 8.00 140.000000 ; 21202
764 2179 2180 2048.00 8.00 140.000000 ; 21301
765 2180 2182 739.00 12.00 140.000000 ; 21401
766 2182 2181 587.00 12.00 140.000000 ; 21501
767 2181 2183 1418.00 12.00 140.000000 ; 21601
768 2183 2176 725.00 12.00 140.000000 ; 21701
769 2183 2184 902.00 8.00 140.000000 ; 21702
770 2184 2185 981.00 8.00 140.000000 ; 22002
771 2185 2186 357.00 8.00 140.000000 ; 21901
772 2186 2184 253.00 8.00 140.000000 ; 21801
773 2186 2185 1280.00 8.00 140.000000 ; 21902
774 2180 2187 535.00 12.00 140.000000 ; 21402
775 2187 2188 195.00 12.00 140.000000 ; 22101
776 2188 2189 887.00 12.00 140.000000 ; 22201
777 2185 2182 188.00 8.00 140.000000 ; 22001
780 2193 1791 5.00 2.00 140.000000 ; 10112
783 2195 1787 5.00 2.00 140.000000 ; 10142
789 2200 1792 5.00 2.00 140.000000 ; 10082
790 1733 2202 1268.00 8.00 140.000000 ; 9852
791 2203 1734 430.00 2.00 150.000000 ; 9861
794 2207 1770 5.00 2.00 140.000000 ; 8302
799 2211 1772 5.00 6.00 140.000000 ; 8401
800 2213 1772 5.00 2.00 140.000000 ; 8402
802 1768 2214 249.00 8.00 140.000000 ; 7662
803 2214 1758 2116.00 8.00 140.000000 ; 7661
806 2217 1767 5.00 3.00 140.000000 ; 7652
808 2220 1744 5.00 2.00 140.000000 ; 7462
812 2224 2083 5.00 2.00 140.000000 ; 72

816 2228 2067 5.00 2.00 140.000000 ; 522
819 2230 2067 5.00 6.00 140.000000 ; 521
821 2232 1983 5.00 2.00 140.000000 ; 1402
826 2237 1984 5.00 3.00 140.000000 ; 1442
828 2240 1988 5.00 3.00 140.000000 ; 3802
831 2242 1988 5.00 10.00 140.000000 ; 3801
833 2244 1970 5.00 2.00 140.000000 ; 1722
837 2248 2153 5.00 2.00 140.000000 ; 4222
840 2138 2251 92.00 8.00 140.000000 ; 3611
844 2255 2131 5.00 2.00 140.000000 ; 4452
846 2257 2131 5.00 6.00 140.000000 ; 4451
850 2261 2109 5.00 2.00 140.000000 ; 5162
852 2264 2114 5.00 2.00 140.000000 ; 5112
853 2265 2114 5.00 6.00 140.000000 ; 5111
856 2268 2171 5.00 2.00 140.000000 ; 4652
859 2103 2271 835.00 8.00 140.000000 ; 5503
860 2272 2273 338.00 8.00 140.000000 ; 234
862 2276 2273 5.00 2.00 140.000000 ; 5522
865 2127 2272 1234.00 6.00 140.000000 ; 4501
866 2271 2126 737.00 6.00 140.000000 ; 4511
867 2274 2159 431.00 8.00 140.000000 ; 4282
868 1788 2279 738.00 8.00 140.000000 ; 10121
870 1516 1515 761.00 8.00 140.000000 ; 19911
871 1525 1530 893.00 8.00 140.000000 ; 19501
872 1896 2280 441.00 16.00 140.000000 ; 20972
873 2280 1897 275.00 16.00 140.000000 ; 20842
874 1905 1906 718.00 8.00 140.000000 ; 20892
875 1884 1883 621.00 12.00 140.000000 ; 20803
876 2056 2281 572.00 8.00 140.000000 ; 2711
877 2281 2057 52.00 8.00 140.000000 ; 2721
880 2284 2271 5.00 2.00 140.000000 ; 5502
881 2286 2271 5.00 6.00 140.000000 ; 5501
883 1982 2287 482.00 12.00 140.000000 ; 1862
884 2287 1976 267.00 12.00 140.000000 ; 1751
885 2288 2289 238.00 12.00 140.000000 ; 8840751
886 2289 2290 369.00 12.00 140.000000 ; 8840701
887 2290 2291 418.00 8.00 140.000000 ; 8840851
888 2291 2292 365.00 8.00 140.000000 ; 8840901
889 2292 2288 180.00 8.00 140.000000 ; 8840902
890 2290 2293 271.00 12.00 140.000000 ; 8840502
891 2293 2294 397.00 8.00 140.000000 ; 8840601
892 2294 2295 339.00 8.00 140.000000 ; 8840602
893 2295 2293 268.00 8.00 140.000000 ; 8840552
894 2293 2296 208.00 8.00 140.000000 ; 8840501
895 2296 2297 304.00 12.00 140.000000 ; 3861
896 2297 1995 161.00 12.00 140.000000 ; 3881
897 2295 2297 155.00 8.00 140.000000 ; 8840551
899 2299 2288 5.00 3.00 140.000000 ; 1782
901 2301 2288 5.00 10.00 140.000000 ; 1781
902 1988 2302 467.00 12.00 140.000000 ; 3841
903 2302 2296 451.00 12.00 140.000000 ; 3862
904 2091 2303 946.00 12.00 140.000000 ; 2202
905 2303 1986 164.00 12.00 140.000000 ; 1483
906 2304 2305 403.00 12.00 140.000000 ; 8840001
907 2305 2306 223.00 12.00 140.000000 ; 8840002
908 2306 2307 905.00 8.00 140.000000 ; 8840051

910 2307 2309 394.00 8.00 140.000000 ; 8840101
911 2309 2306 369.00 12.00 140.000000 ; 8840052
912 2309 2302 603.00 12.00 140.000000 ; 8840102
914 2311 2304 5.00 3.00 140.000000 ; 1312
917 2098 2314 1022.00 12.00 140.000000 ; 601
918 2315 2316 926.00 8.00 140.000000 ; 661
919 2315 2317 1052.00 8.00 140.000000 ; 641
920 2318 2315 582.00 8.00 140.000000 ; 642
922 2320 2318 5.00 2.00 140.000000 ; 632
925 2091 2064 307.00 12.00 140.000000 ; 2201
926 2021 2323 519.00 8.00 140.000000 ; 4161
927 2323 2023 546.00 6.00 140.000000 ; 4181
928 1764 2324 690.00 8.00 140.000000 ; 7721
929 2324 1765 365.00 8.00 140.000000 ; 7701
931 2325 2326 1053.00 8.00 140.000000 ; 8841
932 2326 1717 279.00 12.00 140.000000 ; 13081
933 1622 2327 854.00 8.00 140.000000 ; 8882
934 2327 2326 1173.00 8.00 140.000000 ; 8861
935 2325 2327 919.00 8.00 140.000000 ; 8881
936 1855 2328 980.00 12.00 140.000000 ; 15892
937 1857 2329 724.00 12.00 140.000000 ; 15853
938 2328 2329 675.00 8.00 140.000000 ; 15872
939 2329 2330 540.00 12.00 140.000000 ; 15871
940 2330 1859 1636.00 12.00 140.000000 ; 18402
941 2330 2328 771.00 8.00 140.000000 ; 15881
942 2328 2331 120.00 12.00 140.000000 ; 15891
943 2081 2334 216.00 8.00 140.000000 ; 131
944 2334 2335 869.00 8.00 140.000000 ; 142
945 2335 2336 710.00 8.00 140.000000 ; 161
947 2337 2072 272.00 8.00 140.000000 ; 321
948 2336 2337 187.00 8.00 140.000000 ; 341
949 2336 2338 484.00 8.00 140.000000 ; 171
950 2073 2339 1091.00 8.00 140.000000 ; 271
951 2339 2074 1137.00 8.00 140.000000 ; 261
952 2338 2339 250.00 8.00 140.000000 ; 181
953 2079 2340 408.00 8.00 140.000000 ; 202
954 2334 2340 282.00 8.00 140.000000 ; 141
955 2340 2341 399.00 8.00 140.000000 ; 151
956 2341 2077 201.00 8.00 140.000000 ; 191
957 2338 2341 1379.00 8.00 140.000000 ; 192
958 2038 2342 1588.00 8.00 140.000000 ; 2091
959 2343 2037 2056.00 8.00 140.000000 ; 2062
960 2047 2344 275.00 8.00 140.000000 ; 2761
961 2344 2048 308.00 8.00 140.000000 ; 2751
962 2343 2344 1097.00 8.00 140.000000 ; 3011
963 2343 2345 293.00 8.00 140.000000 ; 3012
964 2345 2028 666.00 8.00 140.000000 ; 3002
965 2345 2346 559.00 8.00 140.000000 ; 3041
966 1597 2347 282.00 8.00 140.000000 ; 8845351
967 2348 1580 832.00 12.00 140.000000 ; 10703
968 2347 2348 588.00 8.00 140.000000 ; 8845301
969 2349 2348 336.00 12.00 140.000000 ; 8845201
970 2349 2347 528.00 8.00 140.000000 ; 8845202
971 1579 2350 607.00 12.00 140.000000 ; 20252
972 2350 2349 681.00 12.00 140.000000 ; 360
973 2350 2351 830.00 12.00 140.000000 ; 8845001

974 2351 2352 849.00 12.00 140.000000 ; 8845051
975 2352 2351 1455.00 8.00 140.000000 ; 8845101
976 2352 2353 319.00 12.00 140.000000 ; 8845151
977 2353 2354 376.00 8.00 140.000000 ; 20272
978 2354 1578 561.00 8.00 140.000000 ; 20271
979 2354 2355 581.00 8.00 140.000000 ; 20282
980 2355 1577 1400.00 8.00 140.000000 ; 20281
981 2349 2356 746.00 8.00 140.000000 ; 23001
982 2356 2357 704.00 8.00 140.000000 ; 23051
983 2357 2358 163.00 8.00 140.000000 ; 23101
984 2826 2829 443.00 20.00 140.000000 ; 20253
985 2829 2501 894.00 20.00 140.000000 ; 20382
986 2357 2359 1420.00 8.00 140.000000 ; 23201
987 2356 1617 1440.00 8.00 140.000000 ; 23002
988 1910 2360 184.00 12.00 140.000000 ; 30452
989 2361 2362 787.00 8.00 140.000000 ; 31102
990 2362 2363 909.00 8.00 140.000000 ; 31101
991 2363 2364 623.00 8.00 140.000000 ; 31001
992 2364 1909 170.00 8.00 140.000000 ; 31002
993 2364 2360 773.00 8.00 140.000000 ; 31201
994 2363 2361 842.00 8.00 140.000000 ; 31051
995 1910 2365 173.00 8.00 140.000000 ; 30501
996 2365 2366 451.00 8.00 140.000000 ; 30502
997 2366 1909 197.00 8.00 140.000000 ; 30551
998 2366 2367 410.00 8.00 140.000000 ; 30552
999 2367 2368 910.00 8.00 140.000000 ; 30601
1000 2368 2365 222.00 8.00 140.000000 ; 30651
1001 2368 2367 522.00 8.00 140.000000 ; 30652
1002 2369 1550 456.00 16.00 140.000000 ; 30001
1003 1910 2370 778.00 16.00 140.000000 ; 31801
1004 2370 2369 544.00 16.00 140.000000 ; 31502
1005 2369 2371 171.00 16.00 140.000000 ; 31501
1006 2371 2372 512.00 16.00 140.000000 ; 31551
1007 2372 2373 475.00 12.00 140.000000 ; 31651
1008 2373 2374 318.00 12.00 140.000000 ; 31701
1009 2374 2370 502.00 12.00 140.000000 ; 31751
1010 2371 2375 546.00 8.00 140.000000 ; 31601
1011 1942 2376 1574.00 8.00 140.000000 ; 15373
1012 2376 1944 983.00 8.00 140.000000 ; 15331
1013 2377 1926 769.00 8.00 140.000000 ; 14701
1014 2378 2377 1658.00 8.00 140.000000 ; 14741
1015 1925 2379 576.00 8.00 140.000000 ; 14781
1016 2379 2378 596.00 8.00 140.000000 ; 14761
1017 1926 2380 1093.00 12.00 140.000000 ; 14661
1018 2380 1927 688.00 12.00 140.000000 ; 14992
1019 2380 2381 582.00 8.00 140.000000 ; 14641
1020 2381 2382 395.00 8.00 140.000000 ; 14621
1021 1952 1934 429.00 8.00 140.000000 ; 14271
1022 1859 2383 672.00 16.00 140.000000 ; 18381
1023 2383 1826 1122.00 16.00 140.000000 ; 18373
1024 1867 1872 276.00 8.00 140.000000 ; 15762
1025 1872 2384 626.00 2.00 150.000000 ; 15811
1026 1873 2385 535.00 8.00 140.000000 ; 15631
1027 2385 1874 539.00 8.00 140.000000 ; 15582
1028 2183 2386 478.00 12.00 140.000000 ; 21751
1029 2127 2273 1388.00 4.00 140.000000 ; 4502

1030 1966 2387 1444.00 8.00 140.000000 ; 5762
1031 2387 1967 161.00 8.00 140.000000 ; 5781
1032 2004 2388 124.00 8.00 140.000000 ; 4771
1033 2388 1966 1071.00 8.00 140.000000 ; 5761
1035 2389 2023 342.00 8.00 140.000000 ; 4201
1036 2009 2390 112.00 8.00 140.000000 ; 4091
1037 2390 2010 558.00 8.00 140.000000 ; 4142
1038 1772 2391 1641.00 6.00 140.000000 ; 8403
1039 2391 2392 111.00 6.00 140.000000 ; 8421
1040 2392 1774 556.00 6.00 140.000000 ; 429
1041 1773 2393 988.00 4.00 140.000000 ; 8541
1042 1778 2394 604.00 6.00 140.000000 ; 8561
1043 1585 2395 30.00 16.00 140.000000 ; 11632
1044 2395 1586 1871.00 16.00 140.000000 ; 11603
1047 1584 2398 5.00 12.00 140.000000 ; 11702
1052 1553 2403 360.00 24.00 140.000000 ; 12401
1053 2403 1554 552.00 24.00 140.000000 ; 12301
1054 1553 2510 70.00 24.00 140.000000 ; 12341
1055 2510 2404 68.00 36.00 140.000000 ; 12363
1060 2827 2409 2637.00 24.00 140.000000 ; 20302
1061 2409 1552 180.00 24.00 140.000000 ; 12391
1063 1957 2410 1267.00 12.00 140.000000 ; 1551
1064 1972 1973 669.00 12.00 140.000000 ; 1654
1065 2410 2411 850.00 12.00 140.000000 ; 1524
1066 2332 1974 2305.00 12.00 140.000000 ; 1602
1068 2412 2411 10.00 12.00 140.000000 ; 1503
1070 2414 2415 2641.00 12.00 140.000000 ; 1321
1071 2415 1989 1146.00 12.00 140.000000 ; 1302
1072 2333 2415 174.00 12.00 140.000000 ; 1341
1073 1975 1974 10.00 12.00 140.000000 ; 1603
1074 1940 2416 685.00 12.00 140.000000 ; 15352
1075 2416 2417 3468.00 8.00 140.000000 ; 8841001
1076 2417 2418 3042.00 8.00 140.000000 ; 8841301
1077 2418 2416 1116.00 8.00 140.000000 ; 8841201
1078 2416 2419 1706.00 8.00 140.000000 ; 8841101
1079 2419 1940 1761.00 8.00 140.000000 ; 8841102
1080 2416 2420 4008.00 12.00 140.000000 ; 8841002
1081 2420 2421 3878.00 8.00 140.000000 ; 8841501
1082 2420 2422 1100.00 12.00 140.000000 ; 8841401
1083 2422 2423 1853.00 12.00 140.000000 ; 8841601
1084 2423 2424 1252.00 12.00 140.000000 ; 8842001
1085 2424 2425 412.00 12.00 140.000000 ; 8842101
1086 2425 2426 1376.00 12.00 140.000000 ; 8842201
1087 2426 2427 1644.00 12.00 140.000000 ; 8842502
1088 2427 2428 1072.00 8.00 140.000000 ; 8842501
1089 2428 2429 2008.00 8.00 140.000000 ; 8842401
1090 2429 2426 1682.00 8.00 140.000000 ; 884230
1091 2425 2428 2363.00 8.00 140.000000 ; 8842601
1092 2360 2430 687.00 12.00 140.000000 ; 31161
1093 2430 2361 130.00 12.00 140.000000 ; 31151
1105 2441 1763 5.00 3.00 140.000000 ; 7112
1107 2444 2016 5.00 6.00 140.000000 ; 4041
1109 2446 2016 5.00 2.00 140.000000 ; 4042
1112 2251 2450 5.00 2.00 140.000000 ; 3622
1113 2450 2252 5.00 2.00 140.000000 ; 3632
1114 2251 2452 5.00 6.00 140.000000 ; 3621

1115 2452 2252 5.00 6.00 140.000000 ; 3631
1116 2104 2453 1389.00 8.00 140.000000 ; 5412
1117 2252 2454 321.00 8.00 140.000000 ; 3691
1119 2456 2504 50.00 8.00 140.000000 ; 4913
1120 2504 2166 100.00 8.00 140.000000 ; 4891
1121 1889 2457 4813.00 8.00 140.000000 ; 478
1122 2020 2458 548.00 8.00 140.000000 ; 479
1123 2458 2013 910.00 8.00 140.000000 ; 480
1126 2461 1552 5.00 20.00 140.000000 ; P485
1127 2462 1585 5.00 16.00 140.000000 ; P486
1128 2827 2826 1322.00 24.00 140.000000 ; P487
1129 1501 2358 1216.00 12.00 140.000000 ; P488
1133 2358 1540 2155.00 12.00 140.000000 ; P492
1138 1973 2410 103.00 1.00 140.000000 ; 496
1140 1559 1558 996.00 24.00 140.000000 ; P498
1141 1558 1556 2204.00 20.00 140.000000 ; P499
1144 1575 1576 1262.00 12.00 140.000000 ; P503
1145 1576 1584 1516.00 12.00 140.000000 ; P504
2703 2199 1792 5.00 6.00 140.000000 ; 2703
2707 2197 1787 5.00 6.00 140.000000 ; 2707
2711 2190 1791 41.51 6.00 140.000000 ; 2712
2715 2204 2203 41.21 2.00 140.000000 ; 2715
2720 2208 1770 56.14 6.00 140.000000 ; 2720
2724 2216 1767 29.21 6.00 140.000000 ; 2724
2728 2440 1763 33.13 10.00 140.000000 ; 2728
2732 2221 1744 37.11 6.00 140.000000 ; 2732
2736 2270 2171 38.12 6.00 140.000000 ; 2736
2744 2259 2109 32.33 6.00 140.000000 ; 2744
2748 2437 2107 46.77 6.00 140.000000 ; 2748
2754 2253 2132 47.10 4.00 140.000000 ; 2754
2758 2278 2273 54.66 6.00 140.000000 ; 2758
2766 2447 2140 38.58 6.00 140.000000 ; 2766
2776 2234 1983 35.40 6.00 140.000000 ; 2776
2780 2236 1984 34.38 10.00 140.000000 ; 2780
2786 2043 2084 81.04 8.00 140.000000 ; 2786
2787 2083 2082 85.38 8.00 140.000000 ; 2787
2789 2226 2083 36.68 6.00 140.000000 ; 2789
2793 2313 2304 98.63 10.00 140.000000 ; 2793
2799 2307 2308 61.88 12.00 140.000000 ; 2799
2800 1981 1980 98.88 12.00 140.000000 ; 2800
2804 1972 1971 84.75 8.00 140.000000 ; 2804
2806 2245 1970 38.64 6.00 140.000000 ; 2806
2810 2322 2318 70.75 6.00 140.000000 ; 2810
2815 1582 1561 66.68 16.00 140.000000 ; 2815
2816 1562 1563 40.63 24.00 140.000000 ; 2816
2818 2279 1789 110.87 8.00 140.000000 ; 2818
2819 1975 2412 72.26 12.00 140.000000 ; 2819
2821 2031 2026 57.38 12.00 140.000000 ; 2882
2822 2024 2025 68.62 12.00 140.000000 ; 2823
2830 1501 2359 893.62 16.00 140.000000 ; p2830
2831 2359 1579 443.31 16.00 140.000000 ; p2831
2832 1965 1959 1345.54 12.00 140.000000 ; p2832
2834 1959 1957 3348.70 12.00 140.000000 ; p2834
2835 2175 1965 733.29 12.00 140.000000 ; p2835
2836 1653 1655 1327.17 12.00 140.000000 ; p2836
2837 1655 1658 986.73 12.00 140.000000 ; p2837

2838 1658 1642 269.39 12.00 140.000000 ; p2838
2839 1642 1636 826.99 12.00 140.000000 ; p2839
2842 1843 1844 158.35 12.00 140.000000 ; p2842
2844 2187 2845 3133.44 12.00 140.000000 ; 2844
2846 2845 3021 806.93 16.00 140.000000 ; p2846
2868 2867 2410 850.00 12.00 140.000000 ; p2868
2872 2871 2414 1.00 16.00 140.000000 ; 2872
2941 2092 2940 4593.57 18.00 140.000000 ; 2941
2944 2943 2945 1808.64 16.00 140.000000 ; 2944
2946 2945 2947 2812.30 16.00 140.000000 ; 2946
2952 3018 2512 590.49 20.00 140.000000 ; p2952
2953 2947 3013 1085.56 20.00 140.000000 ; p2953
2954 2947 2940 1174.43 16.00 140.000000 ; p2954
2955 2984 2414 3526.29 16.00 140.000000 ; p2955
2962 1600 1596 2322.18 16.00 140.000000 ; p2962
2964 1596 1579 2209.35 16.00 140.000000 ; p2964
2969 1600 1603 2239.85 16.00 140.000000 ; p2969
2970 1603 1604 636.57 16.00 140.000000 ; p2970
2980 1724 2986 2981.37 8.00 140.000000 ; 2980
2985 2943 2984 2543.04 16.00 140.000000 ; 2985
2987 2986 1919 1409.17 8.00 140.000000 ; 2987
2988 1915 2986 1156.90 8.00 140.000000 ; 2988
2990 2989 1886 1297.94 12.00 140.000000 ; 2990
2991 1905 2992 515.60 8.00 140.000000 ; 2991
2993 2992 2989 332.68 8.00 140.000000 ; 2993
2994 2992 1907 183.18 8.00 140.000000 ; 2994
2995 2989 1884 513.01 12.00 140.000000 ; 2995
2996 1603 1720 608.91 12.00 140.000000 ; 2996
2997 1557 1574 887.10 12.00 140.000000 ; 2997
2999 2998 1592 1335.65 8.00 140.000000 ; 2999
3001 3000 1594 1532.51 8.00 140.000000 ; 3003
3002 2998 3000 1783.40 8.00 140.000000 ; 3004
3011 1954 3021 6227.33 20.00 140.000000 ; p3011
3016 3015 2512 548.20 20.00 140.000000 ; p3016
3019 3018 3013 15.11 20.00 140.000000 ; p3019
3022 3021 3015 196.25 20.00 140.000000 ; p3022
3023 2951 3021 18.89 20.00 140.000000 ; 3023
3024 3018 2951 131.04 20.00 140.000000 ; p3024
3029 3028 2951 9.62 20.00 140.000000 ; 3029
3031 1511 3032 113.43 12.00 140.000000 ; 3031
3033 3032 3109 40.73 12.00 140.000000 ; 3033
3035 3034 3115 37.46 12.00 140.000000 ; 3035
3037 3036 3038 608.35 12.00 140.000000 ; 3037
3039 3038 3036 692.39 12.00 140.000000 ; 3039
3040 3034 3041 1642.79 12.00 140.000000 ; 3040
3042 3041 3119 174.18 12.00 140.000000 ; 3042
3044 3043 3045 790.55 12.00 140.000000 ; 3044
3046 3045 3038 173.76 12.00 140.000000 ; 3046
3047 3043 3048 99.79 12.00 140.000000 ; 3047
3049 3048 3050 161.10 12.00 140.000000 ; 3049
3051 3050 3052 94.23 12.00 140.000000 ; 3052
3054 3052 3055 953.46 12.00 140.000000 ; 3054
3056 3052 3057 169.50 12.00 140.000000 ; 3056
3058 3057 3059 333.34 12.00 140.000000 ; 3058
3060 3059 3045 197.54 12.00 140.000000 ; 3060
3061 3059 3062 284.13 12.00 140.000000 ; 3062

3063 3062 3064 152.46 12.00 140.000000 ; 3064
3065 3062 3066 761.94 12.00 140.000000 ; 3065
3067 3066 3062 1004.02 12.00 140.000000 ; 3067
3068 3057 3069 295.41 12.00 140.000000 ; 3068
3070 3069 3066 130.47 12.00 140.000000 ; 3070
3071 3069 3103 79.67 12.00 140.000000 ; 3074
3073 3072 3074 85.74 12.00 140.000000 ; 3075
3075 3074 3076 875.42 12.00 140.000000 ; 3076
3077 3076 3074 351.97 12.00 140.000000 ; 3077
3078 3072 3079 262.88 12.00 140.000000 ; 3078
3080 3079 3076 1005.91 12.00 140.000000 ; 3080
3083 3082 3084 1023.26 12.00 140.000000 ; 3083
3085 3084 3086 1504.52 12.00 140.000000 ; 3085
3087 3086 3112 451.45 12.00 140.000000 ; 3087
3088 3086 3089 258.16 12.00 140.000000 ; 3088
3090 3089 3091 1507.67 12.00 140.000000 ; 3090
3092 3091 3093 72.56 12.00 140.000000 ; 3092
3094 3093 3084 182.21 12.00 140.000000 ; 3094
3097 3096 1556 1342.92 16.00 140.000000 ; 3097
3099 3098 1559 443.66 16.00 140.000000 ; 3099
3100 3089 3096 194.83 12.00 140.000000 ; 3100
3101 3091 3098 225.90 12.00 140.000000 ; 3101
3104 3103 3072 278.36 12.00 140.000000 ; 3104
3106 1509 3032 2452.10 12.00 140.000000 ; 3106
3108 3109 3034 362.19 12.00 140.000000 ; 3108
3113 3112 3082 807.37 12.00 140.000000 ; 3113
3123 3122 3082 643.41 12.00 140.000000 ; 3123
3126 3125 1551 2953.30 12.00 140.000000 ; 3126
3127 3125 3131 1353.63 12.00 140.000000 ; 3127
3130 3129 3128 1711.84 12.00 140.000000 ; 3130
3132 3131 3129 377.91 12.00 140.000000 ; 3132
3133 3128 3131 278.43 12.00 140.000000 ; 3133
3135 2057 2282 409.74 4.00 140.000000 ; 3135

Valves

Id, Upstream node id, Downstream node id, Valve Diameter (in), valve type, pressure setting(psi) minor loss, secondary id

781 1790 2193 2.00 PRV 32.04 10.000000 ; 10092
782 1788 2195 2.00 PRV 19.93 10.000000 ; 10132
788 1793 2200 2.00 PRV 35.04 10.000000 ; 10052
795 1769 2207 2.00 PRV 47.23 10.000000 ; 8292
798 1771 2211 6.00 PRV 47.23 10.000000 ; 8391
801 1771 2213 2.00 PRV 55.90 10.000000 ; 8392
807 1766 2217 3.00 PRV 53.07 10.000000 ; 7612
809 1743 2220 2.00 PRV 40.05 10.000000 ; 7452
813 2084 2224 2.00 PRV 39.87 10.000000 ; 62
817 2066 2228 2.00 PRV 50.27 10.000000 ; 512
820 1978 2232 2.00 PRV 82.98 10.000000 ; 1802
827 1985 2237 3.00 PRV 85.80 10.000000 ; 1462
829 1987 2240 3.00 PRV 100.10 10.000000 ; 1472
832 1971 2244 2.00 PRV 58.07 10.000000 ; 1712
836 2152 2248 2.00 PRV 55.03 10.000000 ; 3722
843 2161 2255 2.00 PRV 50.27 10.000000 ; 4332
845 2161 2257 6.00 PRV 42.90 10.000000 ; 4331
849 2110 2261 2.00 PRV 61.97 10.000000 ; 5152
851 2113 2264 2.00 PRV 55.03 10.000000 ; 5192
855 2170 2268 2.00 PRV 52.06 10.000000 ; 4602
861 2274 2276 2.00 PRV 58.07 10.000000 ; 5532
878 1743 2221 6.00 PRV 29.90 10.000000 ; 2731
879 2272 2284 2.00 PRV 55.03 10.000000 ; 5512
882 2272 2286 6.00 PRV 45.07 10.000000 ; 5511
898 2287 2299 3.00 PRV 93.17 10.000000 ; 1772
913 2303 2311 3.00 PRV 93.17 10.000000 ; 1482
921 2314 2320 2.00 PRV 71.93 10.000000 ; 622
1069 2412 2414 6.00 PRV 75.83 10.000000 ; 1501
1104 1762 2441 3.00 PRV 45.05 10.000000 ; 7162
1106 2015 2444 6.00 PRV 55.07 10.000000 ; 2861
1108 2015 2446 2.00 PRV 63.08 10.000000 ; 2862
1118 2167 2456 6.00 PSV 58.50 10.000000 ; 4912
2702 1793 2199 6.00 PRV 28.03 10.000000 ; 2702
2706 1788 2197 6.00 PRV 15.17 10.000000 ; 2706
2710 1790 2190 6.00 PRV 28.03 10.000000 ; 2710
2714 2202 2204 2.00 PRV 60.23 10.000000 ; 2714
2719 1769 2208 6.00 PRV 45.07 10.000000 ; 2719
2723 1766 2216 10.00 PRV 48.06 10.000000 ; 2723
2727 1762 2440 10.00 PRV 40.05 10.000000 ; 2727
2735 2170 2270 6.00 PRV 49.06 10.000000 ; 2735
2739 2113 2265 6.00 PRV 45.07 10.000000 ; 2739
2743 2110 2259 6.00 PRV 57.20 10.000000 ; 2743
2747 2108 2437 6.00 PRV 80.10 10.000000 ; 2747
2753 2133 2253 4.00 PRV 42.05 10.000000 ; 2753
2757 2274 2278 6.00 PRV 50.27 10.000000 ; 2757
2765 2141 2447 6.00 PRV 42.05 10.000000 ; 2765
2775 1978 2234 6.00 PRV 73.23 10.000000 ; 2775
2779 1985 2236 10.00 PRV 74.97 10.000000 ; 2779
2783 2066 2230 6.00 PRV 45.07 10.000000 ; 2783
2788 2084 2226 6.00 PRV 35.97 10.000000 ; 2788
2792 2303 2313 10.00 PRV 84.93 10.000000 ; 2792

2796 1987 2242 10.00 PRV 90.13 10.000000 ; 2796
2801 2287 2301 10.00 PRV 84.93 10.000000 ; 2803
2805 1971 2245 6.00 PRV 52.87 10.000000 ; 2805
2809 2314 2322 6.00 PRV 67.17 10.000000 ; 2809
3081 3079 3122 10.00 PRV 41.43 10.000000 ; 3082
3116 3115 3036 10.00 PRV 51.48 10.000000 ; 3116
3120 3119 3043 10.00 PRV 56.18 10.000000 ; 3120

Patterns

Pattern id, peaking factor

1 1

2 1

Status

Pipe id, Status

290 CLOSED
565 CLOSED
577 CLOSED
582 CLOSED
585 CLOSED
877 CLOSED
1031 CLOSED
1032 CLOSED
1036 CLOSED
1039 CLOSED
1065 CLOSED
1138 CLOSED
3022 CLOSED
3023 CLOSED
3031 CLOSED

The following file represents the hydraulic attribute information contained within the Cascade View Zone model. The file represents ADD conditions under existing conditions (696 ERUs). The file format is Cybernet V3.0. The pipe and node configuration remains consistent under build-out conditions (1124 ERUs) with the exception of the demands, which were increased to account for future growth.

Junctions

Node Label	Elevation (ft)	Demand Type	Demand (gpm)
900	590	Demand	1.19
970	565	Demand	3.58
10	670	Demand	0
140	580	Demand	0
920	590	Demand	1.19
790	520	Demand	3.34
1100	555	Demand	1.91
1410	387	Demand	0.95
740	465	Demand	0.48
1200	470	Demand	0.95
930	635	Demand	1.43
840	625	Demand	1.67
1350	315	Demand	5.49
980	560	Demand	1.43
830	610	Demand	0.95
990	565	Demand	1.43
750	550	Demand	1.19
950	645	Demand	1.19
90	555	Demand	0.12
100	575	Demand	3.34
1120	561	Demand	1.43
1250	535	Demand	0
330	620	Demand	2.62
910	620	Demand	2.39
1320	360	Demand	1.67
110	580	Demand	0.48
1080	590	Demand	5.25
890	615	Demand	0
1210	355	Demand	0.72
350	520	Demand	0.72
960	645	Demand	0.48
730	475	Demand	1.91
1340	325	Demand	0.48
1430	395	Demand	0.24
720	480	Demand	0.72
1220	350	Demand	0.95
1420	395	Demand	1.67
700	520	Demand	2.15
370	540	Demand	0.24
WELL 13	652	Inflow	170
940	615	Demand	0.95
1170	480	Demand	1.91

160	580 Demand	2.39
130	580 Demand	0.72
1010	455 Demand	2.39
1370	300 Demand	0.24
820	620 Demand	4.65
1390	370 Demand	0.48
780	485 Demand	1.91
1230	365 Demand	0.48
320	620 Demand	0
1190	413 Demand	0.72
30	635 Demand	0
860	615 Demand	0.72
1070	520 Demand	3.1
WELL 14	561 Inflow	0
1140	545 Demand	2.62
1020	405 Demand	4.06
1030	355 Demand	0.95
340	555 Demand	1.67
150	635 Demand	2.15
1360	310 Demand	1.43
1380	365 Demand	1.43
80	555 Demand	2.39
1150	545 Demand	4.06
1400	392 Demand	1.43
1090	548 Demand	1.19
360	520 Demand	0.24
870	620 Demand	0.48
1110	625 Demand	4.77
760	560 Demand	0.24
880	616 Demand	0.24
850	600 Demand	0.72
1160	585 Demand	1.91
770	530 Demand	0.24
1040	485 Demand	2.15
380	565 Demand	0.48
40	660 Demand	1.91
1290	310 Demand	0.24
1330	350 Demand	3.1
810	595 Demand	3.82
1300	305 Demand	0
800	595 Demand	2.15
1310	325 Demand	0.24
710	510 Demand	2.62
120	580 Demand	4.29
1050	525 Demand	0
1060	525 Demand	0.24
70	625 Demand	0
60	650 Demand	0.24
50	655 Demand	0.24
20	645 Demand	0
170	575 Demand	0.95
180	575 Demand	0.48

200	600 Demand	0.24
210	580 Demand	0
250	525 Demand	0
280	535 Demand	0
260	525 Demand	0
270	530 Demand	0
290	550 Demand	0
300	550 Demand	0
220	595 Demand	0
230	550 Demand	0
240	580 Demand	0
255	525 Demand	0
1000	510 Demand	1.43
1180	480 Demand	0.48
1260	535 Demand	1.19
1270	360 Demand	0
1280	360 Demand	0
WELL 12	617 Inflow	0
345	535 Demand	1.91
33	550 Demand	0
38	545 Demand	0
48	610 Demand	0

Pipes

Link/Label	Length (ft)	Diameter (in)	Material	Roughness (C)	Initial Status
10801	1,295.00	6	Asbestos Cement	140	Open
9701	1,148.00	8	Asbestos Cement	140	Open
9702	635	8	Ductile Iron	130	Open
9801	863	6	Asbestos Cement	140	Open
102	423	8	Ductile Iron	130	Open
7902	1,451.00	8	Ductile Iron	130	Open
9301	330	6	Asbestos Cement	140	Open
9401	647	6	Asbestos Cement	140	Open
8302	1,354.00	8	Ductile Iron	130	Open
8401	650	8	Ductile Iron	130	Open
13501	911	8	Ductile Iron	130	Open
13701	262	8	Ductile Iron	130	Open
13601	422	8	Ductile Iron	130	Open
8301	654	6	Ductile Iron	130	Open
9902	5	2	Ductile Iron	130	Open
9901	10	4	Ductile Iron	130	Open
7502	357	2	Ductile Iron	130	Open
7501	348	2	Ductile Iron	130	Open
9501	134	8	Asbestos Cement	140	Open
11101	1,313.00	6	Asbestos Cement	140	Open
8602	1,295.00	8	Ductile Iron	130	Open
901	1,125.00	8	Ductile Iron	130	Open
Prop46	2,100.00	12	Ductile Iron	130	Closed
1002	1,659.00	8	Ductile Iron	130	Open
1001	303	8	Ductile Iron	130	Open
12501	5	8	Ductile Iron	130	Open
12502	5	2	Ductile Iron	130	Open
3301	1,768.00	8	Ductile Iron	130	Open
3302	1,344.00	8	Ductile Iron	130	Open
9101	344	6	Asbestos Cement	140	Open
9201	641	6	Asbestos Cement	140	Open
9002	1,379.00	8	Ductile Iron	130	Open
13201	511	8	Ductile Iron	130	Open
12301	751	8	Ductile Iron	130	Open
12201	312	4	Ductile Iron	130	Open
3451	1,005.00	8	Ductile Iron	130	Open
7102	857	8	Ductile Iron	130	Open
7301	338	8	Ductile Iron	130	Open
7302	913	8	Ductile Iron	130	Open
14201	626	8	Ductile Iron	130	Open
14301	363	8	Ductile Iron	130	Open
3601	366	8	Ductile Iron	130	Open
103	100	8	Ductile Iron	130	Open
11501	710	8	Ductile Iron	130	Open
11702	5	3	Ductile Iron	130	Open
11701	5	8	Ductile Iron	130	Open
1601	688	8	Ductile Iron	130	Open
9601	202	12	Ductile Iron	130	Closed

1301	543	12	Ductile Iron	130	Open
10102	1,238.00	6	Asbestos Cement	140	Open
8201	654	6	Ductile Iron	130	Open
7801	1,518.00	8	Ductile Iron	130	Open
7901	1,529.00	8	Ductile Iron	130	Open
3201	1,251.00	8	Ductile Iron	130	Open
2001	1,785.00	8	Ductile Iron	130	Open
12101	566	8	Ductile Iron	130	Open
12001	611	8	Ductile Iron	130	Open
301	740	8	Ductile Iron	130	Open
8601	675	6	Ductile Iron	130	Open
10802	1,273.00	6	Asbestos Cement	140	Open
10901	1,284.00	8	Ductile Iron	130	Open
101	100	8	Ductile Iron	130	Open
11301	1,222.00	8	Ductile Iron	130	Open
11402	321	8	Ductile Iron	130	Open
11202	599	8	Ductile Iron	130	Open
58	103	12	Ductile Iron	130	Open
10201	1,223.00	6	Asbestos Cement	140	Open
10301	1,054.00	1	Ductile Iron	130	Open
3402	899	12	Ductile Iron	130	Open
1502	1,323.00	8	Ductile Iron	130	Open
1501	2,468.00	8	Ductile Iron	130	Open
13901	154	2	Ductile Iron	130	Open
13801	509	8	Ductile Iron	130	Open
801	1,028.00	8	Ductile Iron	130	Open
11401	1,847.00	8	Ductile Iron	130	Open
11601	1,027.00	8	Ductile Iron	130	Open
14001	453	8	Ductile Iron	130	Open
14101	241	8	Ductile Iron	130	Open
11201	1,216.00	8	Ductile Iron	130	Open
8002	1,372.00	8	Ductile Iron	130	Open
3501	353	8	Ductile Iron	130	Open
9001	1,929.00	8	Ductile Iron	130	Open
3202	591	8	Ductile Iron	130	Open
8701	974	8	Ductile Iron	130	Open
11001	1,143.00	6	Asbestos Cement	140	Open
8202	1,308.00	6	Ductile Iron	130	Open
8801	309	2	Ductile Iron	130	Open
10401	586	6	Asbestos Cement	140	Open
3701	645	8	Ductile Iron	130	Open
402	1,395.00	8	Ductile Iron	130	Open
401	2,933.00	8	Ductile Iron	130	Open
12902	595	8	Ductile Iron	130	Open
13001	307	8	Ductile Iron	130	Open
13301	1,793.00	8	Ductile Iron	130	Open
13401	267	2	Ductile Iron	130	Open
8101	671	6	Ductile Iron	130	Open
8102	2,004.00	8	Ductile Iron	130	Open
8001	1,179.00	8	Ductile Iron	130	Open
13101	415	8	Ductile Iron	130	Open
7001	968	12	Ductile Iron	130	Open

7101	382	8	Ductile Iron	130	Open
1201	752	8	Ductile Iron	130	Open
10501	5	6	Ductile Iron	130	Open
10502	5	2	Ductile Iron	130	Open
10701	602	6	Asbestos Cement	140	Open
10601	5	6	Ductile Iron	130	Open
10602	5	2	Ductile Iron	130	Open
601	1,051.00	8	Ductile Iron	130	Open
57	10	12	Ductile Iron	130	Open
68	1,764.00	12	Ductile Iron	130	Open
501	279	8	Ductile Iron	130	Open
202	1,640.00	8	Ductile Iron	130	Open
201	248	8	Ductile Iron	130	Open
171	226	4	Ductile Iron	130	Open
1602	538	8	Ductile Iron	130	Open
2002	686	8	Ductile Iron	130	Open
2101	472	4	Ductile Iron	130	Open
2102	223	8	Ductile Iron	130	Open
2502	284	12	Ductile Iron	130	Open
2501	392	8	Ductile Iron	130	Open
2702	313	8	Ductile Iron	130	Open
2701	2,007.00	12	Ductile Iron	130	Open
2901	225	8	Ductile Iron	130	Open
2302	1,471.00	12	Ductile Iron	130	Open
2301	345	12	Ductile Iron	130	Open
48	602	12	Ductile Iron	130	Open
2551	416	4	Ductile Iron	130	Open
10101	635	8	Asbestos Cement	140	Open
10002	5	2	Ductile Iron	130	Open
10001	10	4	Ductile Iron	130	Open
11901	441	8	Ductile Iron	130	Open
11802	5	3	Ductile Iron	130	Open
11801	5	8	Ductile Iron	130	Open
12603	1,211.00	8	Ductile Iron	130	Open
12601	5	8	Ductile Iron	130	Open
12602	5	2	Ductile Iron	130	Open
12702	5	2	Ductile Iron	130	Open
12901	348	8	Ductile Iron	130	Open
12701	5	8	Ductile Iron	130	Open
12801	5	8	Ductile Iron	130	Open
12802	5	2	Ductile Iron	130	Open
9602	125	8	Ductile Iron	130	Open
3401	967	8	Ductile Iron	130	Open
prop69	3,102.00	12	Ductile Iron	130	Closed

Tanks

Node Label	Base Elevation (ft)	Initial Level (ft)	Tank Diameter (ft)
60,000 GAL TANK	620	112	16
275,000 GAL TANK	652	80	25

Valves

Link Label	Initial Status	Diameter (in)	Minor Loss	Initial Grade Setting (ft)
PRV-31A	Active	6	10	617.23
PRV-31B	Active	2	10	631.07
PRV-32B	Active	2	10	613.76
PRV-32A	Active	4	10	602.23
PRV-35B	Active	3	10	606.82
PRV-35A	Active	6	10	583.76
PRV-33A	Active	6	10	627.23
PRV-33B	Active	2	10	643.38
PRV-34A	Active	6	10	486.82
PRV-34B	Active	2	10	505.27

ATTACHMENT N2

Water Demand Allocation Methodology

Water Demand Allocation Methodology

This attachment presents the information and methodology used to allocate demand within the hydraulic model. The following steps were taken to allocate water demand in the hydraulic water model.

1. Cybernet model map created by District personnel. Model includes nodes and pipes for existing system, and some proposed water system for developments projected within the next 5 years. Cybernet polygons for the model nodes extended to all properties within the District's existing and future service areas.
2. The GIS system was used to assign each tax parcel to a Cybernet model node using a polygon overlay process. In the overlay process the Cybernet polygons were the input coverage and the tax parcels were the identity coverage.
3. GIS system built a database including the following information:
 - Tax parcel number
 - Parcel Area
 - Parcel Zoning
 - Cybernet model node
4. The District Customer Billing system built a database with the following information
 - Tax Parcel number
 - Customer Address
 - Customer Meter code (reflects meter size and associated ERU demand)
5. The Demand database was created by combining the existing customers from the Billing system database with the GIS database, using tax parcel numbers as the matching field.
6. The tax parcel list was checked by comparing the tax parcels listed for each Cybernet model node against a tax assessor map (on the GIS system). Tax parcels were added where they had been skipped in the initial identity process due to database errors.
7. Property area from the GIS Database for the individual tax parcels were checked. The area for each tax parcel was developed initially using the GIS system to measure the area of each tax parcel within a Cybernet model node polygon. However, the boundaries of the tax parcels were not always concurrent with the outer edges of the Cybernet polygons. These cases created multiple areas for the same tax parcel number where "slivers" of tax parcels would be in adjacent polygons. The GIS-measured areas of the tax parcels were checked against the area listed for each tax parcel in the King County Assessors database. If the areas from the two sources differed significantly, the area for that parcel was individually verified.
8. Zoning values from the GIS Database for the individual tax parcels were checked. The zoning for each tax parcel was developed initially using the GIS system's identity

process that used the King County zoning polygons as an overlay, and transferred zoning information from the King County data set to a GIS data set. However, the boundaries of the tax parcels were not always concurrent with the outer edges of the zoning polygons. These cases created a situation where the zoning from an adjacent zoning polygon was associated with a tax parcel. The zoning was checked using a system where the GIS-identified zone was highlighted over the actual zoning boundaries. A visual check was made for each zoning type, and the zoning for individual tax parcels was adjusted where necessary.

9. The Existing demand for each existing water customer was identified in the Demand database using the customer meter code. Tax parcel numbers from the Billing system database were corrected in instances where the tax parcel numbers were inconsistent with the GIS database or were missing. Orthophotos overlaid on a parcel map were used to confirm instances where tax parcel numbers from the two initial databases appeared to be inconsistent. Addresses from King County Assessor information associated with tax parcels were also cross-checked against billing records to assign customers to tax parcels.
10. The “Near Term” demand, expected to occur between 1999 and 2005, was developed from District-issued Certificates of Water Availability. Development information was added to the Demand database, by tax parcel. In some cases, where a proposed development would cover several tax parcels, one parcel was chosen to reflect all the flow. A development phase was assigned to each project, based on information in the District Developer Extension Agreement files. The phases included Planning, Design, Under Construction, and Built. An expected year of service was assigned based on the phase of each project.
11. The Future demand, expected at full development of a parcel, was developed by applying a combination of factors:
 - Development level allowed by Zoning
 - Area of property multiplied by number of ERUs per acre expected based on zoning [e.g., R-4 = 4 lots/acre x 5-acre parcel = 20 lots x 1 ERU/lot = 20 ERUs]
 - Factor applied to property to reflect sensitive area conditions, such as wetlands, lakes, streams, and steep slopes. King County Sensitive Area maps and local knowledge of conditions were used to develop these factors.
 - If the tax parcel area was less than the zoning allows, a minimum of 1 ERU was assigned to the parcel.
 - Development level contained in an existing development proposal.
 - No further subdivision of the parcels would be allowed.
 - No open space retained for future development.
 - Parcel already fully developed
 - Located in an existing development that does not allow further subdivision.
 - Existing building on the property of a size, condition, and location that appears to preclude additional subdivision.

- Tax parcels that are identifiable as access roads, open space with no development allowed, or other non-developable parcels were assigned a demand of 0 ERUs.

Databases from several sources were used to identify tax parcels and the attributes associated with tax parcels. There is the potential for errors in the information coded into the databases. When errors were identified, they were corrected. Due to the large number of records processed, it is possible that some errors were not detected.

Sources of information used in this process include:

Type of Data	Data Source
Cybernet Node Polygons	District Developed Cybernet Model – 1999
Tax Parcel Numbers	King County Assessor's data set – 1998
Parcel Area	Calculated by GIS – ARCInfo or King County Assessor's data set - 1998
Zoning	King County DDES – 1999 (Before establishment of the Cities of Sammamish and Issaquah)
Sensitive Areas	King County Sensitive Areas data sets – latest available, various dates
Meter Data	District Billing Computer – OrCom AS400 – 5/18/99
Proposed Development	District Agreements and Certificates issued through 2/99
Orthophotos	Nies Mapping Group – 1996 Walker & Associates - 1998

With respect to the “Existing” and “Near Term” demands, the process is considering a point in time. Due to the rapidly developing nature of the Plateau, there are some developments now on line that were provided as a single demand. In addition, as development procedures move forward, some developments are terminated, others are started and some continue with modified demands. The overall demand will not change significantly, but some details of the demand will change.