

DSM Analysis
Economic Summary Tables
Plan 6 - DSM Level 2

Plan 6: K19/Gas/750MW
DSM Level 2

TABLE 039
ECONOMIC SUMMARY
DSM ANALYSIS - TOTAL RESOURCE COST

Energy Price
Discount Rate
Capital Cost
Reference
Reference
Reference

| FYB | Capital and Related Costs (Millions of 2014\$) | | | | | | | | | | Net Average Flow Related Revenue (Millions of 2014\$) | | | | |
|------|--|---------------|---------------|------------|--------------|--------|----------------|------------------|------------------|--------------|---|-----------------|-----------------|--------------------|----------------|
| | Conawapa GS | Keeyask GS | Thermal GS | Wind GS | Transmission | | DSM Capital | Total Capital | Capital Taxes | Fixed O&M | Gross Revenue | Water Rental | Thermal Burn | Power Purchases | Net Revenue |
| | | | | | GOT | US T/L | | | | | | | | | |
| 2013 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2014 | 0.00 | 381.63 | 0.00 | 0.00 | 11.53 | 20.31 | 114.77 | 528.24 | 2.42 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2015 | 0.00 | 658.21 | 0.00 | 0.00 | 9.05 | 6.51 | 130.11 | 803.88 | 6.17 | 0.91 | 344.75 | 101.53 | 24.43 | 100.64 | 118.16 |
| 2016 | 0.00 | 727.13 | 0.00 | 0.00 | 16.18 | 29.23 | 276.12 | 1048.65 | 10.63 | 0.91 | 395.07 | 99.52 | 25.87 | 106.12 | 163.56 |
| 2017 | 0.00 | 891.26 | 0.00 | 0.00 | 29.74 | 92.73 | 164.07 | 1177.79 | 16.11 | 0.91 | 444.75 | 97.67 | 27.36 | 110.65 | 209.06 |
| 2018 | 0.00 | 510.88 | 0.00 | 0.00 | 42.34 | 112.46 | 163.97 | 829.65 | 19.80 | 0.91 | 465.03 | 95.18 | 28.83 | 114.16 | 226.86 |
| 2019 | 0.00 | 258.44 | 0.00 | 0.00 | 39.84 | 69.79 | 138.26 | 506.33 | 21.93 | 17.46 | 500.23 | 95.08 | 27.08 | 112.54 | 265.54 |
| 2020 | 0.00 | 136.74 | 0.00 | 0.00 | 0.01 | 217.43 | 105.47 | 459.65 | 23.93 | 51.78 | 745.63 | 102.75 | 20.17 | 118.47 | 504.23 |
| 2021 | 0.00 | 59.23 | 0.00 | 0.00 | 0.00 | 0.40 | 84.63 | 144.26 | 24.40 | 50.00 | 831.41 | 103.24 | 21.29 | 127.15 | 579.74 |
| 2022 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 112.01 | 112.01 | 24.58 | 48.71 | 841.12 | 101.64 | 21.86 | 130.27 | 587.35 |
| 2023 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 111.42 | 111.42 | 24.76 | 46.76 | 837.13 | 99.67 | 21.13 | 133.96 | 582.38 |
| 2024 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 112.17 | 112.17 | 24.95 | 44.96 | 821.16 | 97.03 | 24.07 | 141.26 | 558.81 |
| 2025 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 102.81 | 102.81 | 25.13 | 43.23 | 753.22 | 95.08 | 22.90 | 132.95 | 502.30 |
| 2026 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 103.33 | 103.33 | 25.30 | 41.39 | 763.06 | 94.52 | 23.69 | 132.01 | 512.84 |
| 2027 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 103.29 | 103.29 | 25.47 | 40.03 | 720.16 | 92.33 | 21.31 | 126.76 | 479.76 |
| 2028 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 96.90 | 96.90 | 25.52 | 38.74 | 707.05 | 90.58 | 22.62 | 128.86 | 464.99 |
| 2029 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 97.86 | 97.86 | 25.58 | 40.10 | 695.74 | 88.94 | 23.24 | 132.23 | 451.33 |
| 2030 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.52 | 99.52 | 25.63 | 34.90 | 684.58 | 87.81 | 22.35 | 129.55 | 444.88 |
| 2031 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 101.91 | 101.91 | 25.68 | 33.67 | 679.52 | 86.33 | 22.91 | 133.56 | 436.73 |
| 2032 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.49 | 100.49 | 25.73 | 32.47 | 659.02 | 84.71 | 23.07 | 132.89 | 418.35 |
| 2033 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 106.87 | 106.87 | 25.79 | 31.31 | 645.85 | 83.13 | 23.69 | 136.35 | 402.67 |
| 2034 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 112.27 | 112.27 | 25.84 | 30.19 | 632.67 | 81.57 | 24.23 | 140.26 | 386.60 |
| 2035 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 115.73 | 115.73 | 25.89 | 28.67 | 577.21 | 80.13 | 24.55 | 121.08 | 351.46 |
| 2036 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 163.61 | 163.61 | 25.95 | 28.05 | 553.10 | 78.65 | 24.76 | 120.90 | 328.79 |
| 2037 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 119.46 | 119.46 | 25.98 | 27.45 | 534.91 | 77.20 | 25.00 | 124.45 | 308.26 |
| 2038 | 0.00 | 0.00 | 77.51 | 0.00 | 0.00 | 0.00 | 115.80 | 193.32 | 26.37 | 26.88 | 514.75 | 75.75 | 25.11 | 127.25 | 286.64 |
| 2039 | 0.00 | 0.00 | 105.87 | 0.00 | 9.06 | 0.00 | 129.60 | 244.53 | 26.95 | 29.22 | 497.94 | 74.62 | 23.77 | 136.40 | 263.14 |
| 2040 | 0.00 | 0.00 | 16.06 | 0.00 | 0.00 | 0.00 | 121.13 | 137.19 | 27.04 | 29.77 | 488.76 | 73.21 | 33.82 | 140.49 | 241.23 |
| 2041 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 115.04 | 115.04 | 27.05 | 29.25 | 457.64 | 71.79 | 46.27 | 135.85 | 203.72 |
| 2042 | 0.00 | 0.00 | 79.08 | 0.00 | 0.00 | 0.00 | 115.56 | 194.63 | 27.45 | 28.75 | 450.00 | 70.41 | 44.29 | 146.80 | 188.51 |
| 2043 | 0.00 | 0.00 | 108.00 | 0.00 | 9.06 | 0.00 | 82.54 | 199.60 | 28.04 | 28.26 | 455.62 | 69.81 | 39.37 | 155.47 | 190.97 |
| 2044 | 0.00 | 0.00 | 16.38 | 0.00 | 0.00 | 0.00 | 68.39 | 84.77 | 28.13 | 33.50 | 430.33 | 67.84 | 57.93 | 163.36 | 141.20 |
| 2045 | 0.00 | 0.00 | 80.27 | 0.00 | 0.00 | 0.00 | 61.97 | 142.23 | 28.53 | 33.04 | 412.31 | 66.56 | 63.14 | 169.19 | 113.43 |
| 2046 | 0.00 | 0.00 | 109.63 | 0.00 | 71.35 | 0.00 | 59.69 | 240.67 | 29.45 | 32.60 | 410.70 | 65.99 | 65.44 | 171.85 | 107.43 |
| 2047 | 0.00 | 0.00 | 16.63 | 0.00 | 0.00 | 0.00 | 58.37 | 75.00 | 29.53 | 35.30 | 401.13 | 64.74 | 85.82 | 175.49 | 75.08 |
| 2048 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 57.98 | 57.98 | 29.54 | 34.02 | 370.38 | 62.95 | 100.93 | 182.53 | 23.97 |
| 2049 | 0.00 | 0.00 | 0.00 | 0.00 | 1.09 | 0.37 | 53.54 | 55.00 | 29.54 | 36.50 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2050 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 1.59 | 52.19 | 54.21 | 29.54 | 33.23 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2051 | 0.00 | 0.00 | 0.00 | 0.00 | 15.00 | 20.62 | 51.77 | 87.38 | 29.54 | 32.85 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2052 | 0.00 | 0.00 | 0.00 | 0.00 | 18.71 | 29.64 | 51.66 | 100.00 | 29.54 | 32.50 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2053 | 0.00 | 0.00 | 0.00 | 0.00 | 19.59 | 14.01 | 52.86 | 86.47 | 29.54 | 32.15 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2054 | 0.00 | 0.00 | 0.00 | 0.00 | 16.72 | 23.35 | 60.15 | 100.22 | 29.54 | 31.82 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2055 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.52 | 64.82 | 88.34 | 29.54 | 31.49 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2056 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 109.82 | 110.17 | 29.54 | 46.62 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2057 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 72.99 | 72.99 | 29.54 | 30.86 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2058 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 82.51 | 82.51 | 29.54 | 46.01 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2059 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 81.65 | 81.65 | 29.54 | 33.17 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2060 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 73.50 | 73.50 | 29.54 | 42.22 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2061 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 64.57 | 64.57 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2062 | 0.00 | 0.00 | 0.00 | 0.00 | 3.06 | 1.10 | 55.37 | 59.53 | 29.54 | 42.22 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2063 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.05 | 57.17 | 57.94 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2064 | 0.00 | 0.00 | 0.00 | 0.00 | 18.79 | 17.45 | 58.61 | 94.85 | 29.54 | 42.22 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2065 | 0.00 | 0.00 | 0.00 | 0.00 | 8.83 | 1.98 | 68.42 | 79.02 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2066 | 0.00 | 0.00 | 0.00 | 0.00 | 1.18 | 7.37 | 70.75 | 79.30 | 29.54 | 42.22 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2067 | 0.00 | 0.00 | 0.00 | 0.00 | 11.03 | 63.09 | 69.48 | 143.60 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2068 | 0.00 | 0.00 | 77.51 | 0.00 | 22.75 | 32.22 | 68.62 | 201.11 | 29.54 | 42.22 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2069 | 0.00 | 0.00 | 105.87 | 0.00 | 23.12 | 22.86 | 68.45 | 220.30 | 29.54 | 29.66 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2070 | 0.00 | 0.00 | 16.06 | 0.00 | 0.01 | 13.13 | 51.70 | 80.90 | 29.54 | 28.51 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2071 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 51.87 | 51.92 | 29.54 | 28.51 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2072 | 0.00 | 0.00 | 79.08 | 0.00 | 0.00 | 0.00 | 57.46 | 136.54 | 29.54 | 28.51 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2073 | 0.00 | 0.00 | 108.00 | 0.00 | 0.00 | 0.00 | 78.04 | 186.04 | 29.54 | 27.64 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2074 | 0.00 | 0.00 | 16.38 | 0.00 | 9.06 | 0.00 | 91.03 | 116.47 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2075 | 0.00 | 0.00 | 80.27 | 0.00 | 0.00 | 0.00 | 98.08 | 178.35 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2076 | 0.00 | 0.00 | 109.63 | 0.00 | 0.00 | 0.00 | 139.30 | 248.93 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2077 | 0.00 | 0.00 | 16.63 | 0.00 | 0.00 | 0.00 | 101.54 | 118.17 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2078 | 0.00 | 0.00 | 0.00 | 0.00 | 9.06 | 0.00 | 94.48 | 103.54 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2079 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 84.86 | 84.86 | 29.54 | 29.66 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2080 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 74.09 | 74.09 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2081 | 0.00 | 0.00 | 0.00 | 0.00 | 53.51 | 0.00 | 66.49 | 120.01 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2082 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 65.63 | 65.63 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2083 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 64.05 | 64.05 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2084 | 0.00 | 0.00 | 0.00 | 0.00 | 1.09 | 0.37 | 63.57 | 65.03 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | 176.62 | 68.82 |
| 2085 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 1.59 | 54.79 | 56.81 | 29.54 | 26.77 | 394.07 | 64.56 | 84.06 | | |

Plan 6: K19/Gas/750MW
DSM Level 2

TABLE 040
ECONOMIC SUMMARY
DSM ANALYSIS - MANITOBA HYDRO VIEW

Energy Price
Discount Rate
Capital Cost

Reference
Reference
Reference

| FYB | Capital and Related Costs (Millions of 2014\$) | | | | | | | | | | Net Average Flow Related Revenue (Millions of 2014\$) | | | | |
|------|--|---------------|---------------|------------|--------------|--------|----------------|------------------|------------------|--------------|---|-----------------|-----------------|--------------------|----------------|
| | Conawapa GS | Keeyask GS | Thermal GS | Wind GS | Transmission | | DSM Capital | Total Capital | Capital Taxes | Fixed O&M | Gross Revenue | Water Rental | Thermal Burn | Power Purchases | Net Revenue |
| | | | | | GOT | US T/L | | | | | | | | | |
| 2013 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2014 | 0.00 | 381.63 | 0.00 | 0.00 | 11.53 | 20.31 | 61.07 | 474.54 | 2.42 | 0.91 | -20.25 | 0.00 | 0.00 | 0.00 | -20.25 |
| 2015 | 0.00 | 658.21 | 0.00 | 0.00 | 9.05 | 6.51 | 66.45 | 740.22 | 6.17 | 0.91 | 310.73 | 101.53 | 24.43 | 100.64 | 84.13 |
| 2016 | 0.00 | 727.13 | 0.00 | 0.00 | 16.18 | 29.23 | 109.93 | 882.47 | 10.63 | 0.91 | 335.98 | 99.52 | 25.87 | 106.12 | 104.46 |
| 2017 | 0.00 | 891.26 | 0.00 | 0.00 | 29.74 | 92.73 | 71.38 | 1085.11 | 16.11 | 0.91 | 370.63 | 97.67 | 27.36 | 110.65 | 134.94 |
| 2018 | 0.00 | 510.88 | 0.00 | 0.00 | 42.34 | 112.46 | 73.09 | 738.77 | 19.80 | 0.91 | 371.33 | 95.18 | 28.83 | 114.16 | 133.16 |
| 2019 | 0.00 | 258.44 | 0.00 | 0.00 | 39.84 | 69.79 | 57.30 | 425.36 | 21.93 | 17.46 | 396.11 | 95.08 | 27.08 | 112.54 | 161.41 |
| 2020 | 0.00 | 136.74 | 0.00 | 0.00 | 0.01 | 217.43 | 45.17 | 399.34 | 23.93 | 51.78 | 633.84 | 102.75 | 20.17 | 118.47 | 392.44 |
| 2021 | 0.00 | 59.23 | 0.00 | 0.00 | 0.00 | 0.40 | 35.91 | 95.54 | 24.40 | 50.00 | 713.86 | 103.24 | 21.29 | 127.15 | 462.18 |
| 2022 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.77 | 35.77 | 24.58 | 48.71 | 716.53 | 101.64 | 21.86 | 130.27 | 462.76 |
| 2023 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.21 | 36.21 | 24.76 | 46.76 | 708.08 | 99.67 | 21.13 | 133.96 | 453.33 |
| 2024 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 36.83 | 36.83 | 24.95 | 44.96 | 687.12 | 97.03 | 24.07 | 141.26 | 424.77 |
| 2025 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.65 | 35.65 | 25.13 | 43.23 | 614.46 | 95.08 | 22.90 | 132.95 | 363.53 |
| 2026 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.98 | 33.98 | 25.30 | 41.39 | 619.01 | 94.52 | 23.69 | 132.01 | 368.79 |
| 2027 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.92 | 33.92 | 25.47 | 40.03 | 574.03 | 92.33 | 21.31 | 126.76 | 333.64 |
| 2028 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.79 | 11.79 | 25.52 | 38.74 | 557.52 | 90.58 | 22.62 | 128.86 | 315.46 |
| 2029 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.34 | 10.34 | 25.58 | 40.10 | 542.95 | 88.94 | 23.24 | 132.23 | 298.53 |
| 2030 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.37 | 10.37 | 25.63 | 34.90 | 528.52 | 87.81 | 22.35 | 129.55 | 288.82 |
| 2031 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.45 | 10.45 | 25.68 | 33.67 | 520.29 | 86.33 | 22.91 | 133.56 | 277.49 |
| 2032 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.53 | 10.53 | 25.73 | 32.47 | 496.70 | 84.71 | 23.07 | 132.89 | 256.03 |
| 2033 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.60 | 10.60 | 25.79 | 31.31 | 480.54 | 83.13 | 23.69 | 136.35 | 237.36 |
| 2034 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.68 | 10.68 | 25.84 | 30.19 | 464.36 | 81.57 | 24.23 | 140.26 | 218.29 |
| 2035 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.76 | 10.76 | 25.89 | 28.67 | 405.84 | 80.13 | 24.55 | 121.08 | 180.09 |
| 2036 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.84 | 10.84 | 25.95 | 28.05 | 378.67 | 78.65 | 24.76 | 120.90 | 154.36 |
| 2037 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.37 | 6.37 | 25.98 | 27.45 | 358.06 | 77.20 | 25.00 | 124.45 | 131.41 |
| 2038 | 0.00 | 0.00 | 77.51 | 0.00 | 0.00 | 0.00 | 1.40 | 78.91 | 26.37 | 26.88 | 335.47 | 75.75 | 25.11 | 127.25 | 107.36 |
| 2039 | 0.00 | 0.00 | 105.87 | 0.00 | 9.06 | 0.00 | 1.19 | 116.12 | 26.95 | 29.22 | 317.14 | 74.62 | 23.77 | 136.40 | 82.35 |
| 2040 | 0.00 | 0.00 | 16.06 | 0.00 | 0.00 | 0.00 | 1.19 | 17.25 | 27.04 | 29.77 | 306.44 | 73.21 | 33.82 | 140.49 | 58.92 |
| 2041 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.19 | 1.19 | 27.05 | 29.25 | 273.80 | 71.79 | 46.27 | 135.85 | 19.88 |
| 2042 | 0.00 | 0.00 | 79.08 | 0.00 | 0.00 | 0.00 | 1.19 | 80.27 | 27.45 | 28.75 | 264.74 | 70.41 | 44.29 | 146.80 | 3.25 |
| 2043 | 0.00 | 0.00 | 108.00 | 0.00 | 9.06 | 0.00 | 1.19 | 118.25 | 28.04 | 28.26 | 270.36 | 69.81 | 39.37 | 155.47 | 5.71 |
| 2044 | 0.00 | 0.00 | 16.38 | 0.00 | 0.00 | 0.00 | 1.19 | 17.58 | 28.13 | 33.50 | 245.06 | 67.84 | 57.93 | 163.36 | -44.06 |
| 2045 | 0.00 | 0.00 | 80.27 | 0.00 | 0.00 | 0.00 | 1.19 | 81.46 | 28.53 | 33.04 | 227.05 | 66.56 | 63.14 | 169.19 | -71.84 |
| 2046 | 0.00 | 0.00 | 109.63 | 0.00 | 71.35 | 0.00 | 1.19 | 182.17 | 29.45 | 32.60 | 225.44 | 65.99 | 65.44 | 171.85 | -77.83 |
| 2047 | 0.00 | 0.00 | 16.63 | 0.00 | 0.00 | 0.00 | 1.19 | 17.82 | 29.53 | 35.30 | 215.86 | 64.74 | 85.82 | 175.49 | -110.19 |
| 2048 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.19 | 1.19 | 29.54 | 34.02 | 185.11 | 62.95 | 100.93 | 182.53 | -161.29 |
| 2049 | 0.00 | 0.00 | 0.00 | 0.00 | 1.09 | 0.37 | 0.99 | 2.45 | 29.54 | 36.50 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2050 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 1.59 | 0.99 | 3.01 | 29.54 | 33.23 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2051 | 0.00 | 0.00 | 0.00 | 0.00 | 15.00 | 20.62 | 0.99 | 36.61 | 29.54 | 32.85 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2052 | 0.00 | 0.00 | 0.00 | 0.00 | 18.71 | 29.64 | 0.99 | 49.33 | 29.54 | 32.50 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2053 | 0.00 | 0.00 | 0.00 | 0.00 | 19.59 | 14.01 | 0.99 | 34.60 | 29.54 | 32.15 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2054 | 0.00 | 0.00 | 0.00 | 0.00 | 16.72 | 23.35 | 0.99 | 41.06 | 29.54 | 31.82 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2055 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.52 | 0.99 | 24.51 | 29.54 | 31.49 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2056 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.99 | 1.34 | 29.54 | 46.62 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2057 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.99 | 0.99 | 29.54 | 30.86 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2058 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.99 | 0.99 | 29.54 | 46.01 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2059 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.79 | 0.79 | 29.54 | 33.17 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2060 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.79 | 0.79 | 29.54 | 42.22 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2061 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.79 | 0.79 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2062 | 0.00 | 0.00 | 0.00 | 0.00 | 3.06 | 1.10 | 0.79 | 4.95 | 29.54 | 42.22 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2063 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.05 | 0.79 | 1.55 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2064 | 0.00 | 0.00 | 0.00 | 0.00 | 18.79 | 17.45 | 0.79 | 37.03 | 29.54 | 42.22 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2065 | 0.00 | 0.00 | 0.00 | 0.00 | 8.63 | 1.98 | 0.79 | 11.39 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2066 | 0.00 | 0.00 | 0.00 | 0.00 | 1.18 | 7.37 | 0.79 | 9.33 | 29.54 | 42.22 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2067 | 0.00 | 0.00 | 0.00 | 0.00 | 11.03 | 63.09 | 0.79 | 74.91 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2068 | 0.00 | 0.00 | 77.51 | 0.00 | 22.75 | 32.22 | 0.79 | 133.27 | 29.54 | 42.22 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2069 | 0.00 | 0.00 | 105.87 | 0.00 | 23.12 | 22.86 | 0.58 | 152.42 | 29.54 | 29.66 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2070 | 0.00 | 0.00 | 16.06 | 0.00 | 0.01 | 13.13 | 0.58 | 29.78 | 29.54 | 28.51 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2071 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.58 | 0.64 | 29.54 | 28.51 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2072 | 0.00 | 0.00 | 79.08 | 0.00 | 0.00 | 0.00 | 0.58 | 79.66 | 29.54 | 28.51 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2073 | 0.00 | 0.00 | 108.00 | 0.00 | 0.00 | 0.00 | 0.58 | 108.58 | 29.54 | 27.64 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2074 | 0.00 | 0.00 | 16.38 | 0.00 | 9.06 | 0.00 | 0.58 | 26.03 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2075 | 0.00 | 0.00 | 80.27 | 0.00 | 0.00 | 0.00 | 0.58 | 80.85 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2076 | 0.00 | 0.00 | 109.63 | 0.00 | 0.00 | 0.00 | 0.58 | 110.21 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2077 | 0.00 | 0.00 | 16.63 | 0.00 | 0.00 | 0.00 | 0.58 | 17.21 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2078 | 0.00 | 0.00 | 0.00 | 0.00 | 9.06 | 0.00 | 0.58 | 9.64 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2079 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 0.58 | 29.54 | 29.66 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2080 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 0.58 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2081 | 0.00 | 0.00 | 0.00 | 0.00 | 53.51 | 0.00 | 0.58 | 54.09 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2082 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 0.58 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2083 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 0.58 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2084 | 0.00 | 0.00 | 0.00 | 0.00 | 1.09 | 0.37 | 0.58 | 2.04 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2085 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 1.59 | 0.58 | 2.60 | 29.54 | 26.77 | 208.81 | 64.56 | 84.06 | 176.62 | -116.44 |
| 2086 | 0.00 | 0.00 | 0.00 | 0. | | | | | | | | | | | |