

様式 2

事業費集計表
(森林整備事業)

事業名： 水源林造成事業
 施行箇所： 阿賀野川広域流域 30年経過契約地

(単位:千円)

| 年度 | 事業費 | | | 年度 | 事業費 | | |
|-------|--------|----------|---------|-------|------------|----------|-------|
| | 事業費 | 割引率 | 現在価値額 | | 事業費 | 割引率 | 現在価値額 |
| S 5 8 | | × 3.3731 | | H 5 6 | 0 | × 0.3083 | 0 |
| S 5 9 | 75,089 | × 3.2434 | 243,544 | H 5 7 | 0 | × 0.2965 | 0 |
| S 6 0 | 18,811 | × 3.1187 | 58,666 | H 5 8 | 0 | × 0.2851 | 0 |
| S 6 1 | 14,937 | × 2.9987 | 44,792 | H 5 9 | 0 | × 0.2741 | 0 |
| S 6 2 | 11,584 | × 2.8834 | 33,401 | H 6 0 | 0 | × 0.2636 | 0 |
| S 6 3 | 8,465 | × 2.7725 | 23,469 | H 6 1 | 0 | × 0.2534 | 0 |
| H 1 | 7,973 | × 2.6658 | 21,254 | H 6 2 | 0 | × 0.2437 | 0 |
| H 2 | 0 | × 2.5633 | 0 | H 6 3 | 0 | × 0.2343 | 0 |
| H 3 | 3,408 | × 2.4647 | 8,400 | H 6 4 | 0 | × 0.2253 | 0 |
| H 4 | 0 | × 2.3699 | 0 | H 6 5 | 0 | × 0.2166 | 0 |
| H 5 | 3,289 | × 2.2788 | 7,495 | H 6 6 | 0 | × 0.2083 | 0 |
| H 6 | 348 | × 2.1911 | 763 | H 6 7 | 0 | × 0.2003 | 0 |
| H 7 | 10,188 | × 2.1068 | 21,464 | H 6 8 | 0 | × 0.1926 | 0 |
| H 8 | 0 | × 2.0258 | 0 | H 6 9 | 0 | × 0.1852 | 0 |
| H 9 | 15,674 | × 1.9479 | 30,531 | H 7 0 | 0 | × 0.1780 | 0 |
| H 1 0 | 0 | × 1.8730 | 0 | H 7 1 | 0 | × 0.1712 | 0 |
| H 1 1 | 1,910 | × 1.8009 | 3,440 | H 7 2 | 0 | × 0.1646 | 0 |
| H 1 2 | 0 | × 1.7317 | 0 | H 7 3 | 0 | × 0.1583 | 0 |
| H 1 3 | 3,685 | × 1.6651 | 6,136 | H 7 4 | 0 | × 0.1522 | 0 |
| H 1 4 | 0 | × 1.6010 | 0 | H 7 5 | 0 | × 0.1463 | 0 |
| H 1 5 | 7,320 | × 1.5395 | 11,269 | | | | |
| H 1 6 | 5,390 | × 1.4802 | 7,978 | | | | |
| H 1 7 | 0 | × 1.4233 | 0 | | | | |
| H 1 8 | 0 | × 1.3686 | 0 | | | | |
| H 1 9 | 0 | × 1.3159 | 0 | | | | |
| H 2 0 | 0 | × 1.2653 | 0 | | | | |
| H 2 1 | 10,147 | × 1.2167 | 12,346 | | | | |
| H 2 2 | 0 | × 1.1699 | 0 | | | | |
| H 2 3 | 0 | × 1.1249 | 0 | | | | |
| H 2 4 | 0 | × 1.0816 | 0 | | | | |
| H 2 5 | 0 | × 1.0400 | 0 | | | | |
| H 2 6 | 0 | × 1.0000 | 0 | | | | |
| H 2 7 | 0 | × 0.9615 | 0 | | | | |
| H 2 8 | 0 | × 0.9246 | 0 | | | | |
| H 2 9 | 0 | × 0.8890 | 0 | | | | |
| H 3 0 | 0 | × 0.8548 | 0 | | | | |
| H 3 1 | 0 | × 0.8219 | 0 | | | | |
| H 3 2 | 0 | × 0.7903 | 0 | | | | |
| H 3 3 | 0 | × 0.7599 | 0 | | | | |
| H 3 4 | 0 | × 0.7307 | 0 | | | | |
| H 3 5 | 588 | × 0.7026 | 413 | | | | |
| H 3 6 | 5,124 | × 0.6756 | 3,462 | | | | |
| H 3 7 | 0 | × 0.6496 | 0 | | | | |
| H 3 8 | 0 | × 0.6246 | 0 | | | | |
| H 3 9 | 0 | × 0.6006 | 0 | | | | |
| H 4 0 | 0 | × 0.5775 | 0 | | | | |
| H 4 1 | 0 | × 0.5553 | 0 | | | | |
| H 4 2 | 0 | × 0.5339 | 0 | | | | |
| H 4 3 | 0 | × 0.5134 | 0 | | | | |
| H 4 4 | 0 | × 0.4936 | 0 | | | | |
| H 4 5 | 0 | × 0.4746 | 0 | | | | |
| H 4 6 | 0 | × 0.4564 | 0 | | | | |
| H 4 7 | 0 | × 0.4388 | 0 | | | | |
| H 4 8 | 0 | × 0.4220 | 0 | | | | |
| H 4 9 | 0 | × 0.4057 | 0 | | | | |
| H 5 0 | 0 | × 0.3901 | 0 | | | | |
| H 5 1 | 1,708 | × 0.3751 | 641 | | | | |
| H 5 2 | 0 | × 0.3607 | 0 | | | | |
| H 5 3 | 0 | × 0.3468 | 0 | | | | |
| H 5 4 | 0 | × 0.3335 | 0 | | | | |
| H 5 5 | 0 | × 0.3207 | 0 | | | | |
| | | | | 合 計 | 539,464 | | |
| | | | | C = | 539,464 千円 | | |

$$B = \sum_{t=1}^{T-1} \frac{t}{T \times (1+i)^t} + \sum_{t=T}^Y \frac{1}{(1+i)^t} \times \frac{(f1-f2) \times \alpha \times A \times U}{360}$$

- U: 治水ダムの単位雨量流出量当たりの年間減価償却費(円/m³/sec) 3,670,000
出典:「ダム年鑑2014」
- f1: 事業実施前の流出係数

| | | |
|------|---|-----------|
| 浸透能大 | 急 | 要整備森林(疎林) |
|------|---|-----------|

 0.55
出典:「治山設計」(山口伊佐夫著,1979)
- f2: 事業実施後、T年経過後の流出係数

| | | |
|------|---|-------|
| 浸透能大 | 急 | 整備済森林 |
|------|---|-------|

 0.45
出典:「治山設計」(山口伊佐夫著,1979)
- T: 事業実施後、流出係数が安定するのに必要な年数 15
- α: 100年確率時雨量(mm/h) 69.21
出典: 気象統計情報(気象庁)
- A: 事業対象区域面積(ha) 44.35 ~ 44.35
- 360: 単位合わせのための調整値
- Y: 評価期間 80

事業効果面積: 経過年ごとに発生する事業対象区域面積に対して、それぞれ流出係数等の安定する期間(t/T)を考慮して面積に換算して年度毎に累計した面積

| 年度 | 社会的割引率 | 事業対象区域面積 | 事業効果面積 | 効果額 | 現在価値化 |
|------|--------|----------|--------|-------|-------|
| 1983 | 3.3731 | | | | |
| 1984 | 3.2434 | 44.35 | 2.96 | 209 | 678 |
| 1985 | 3.1187 | 44.35 | 5.91 | 417 | 1,300 |
| 1986 | 2.9987 | 44.35 | 8.87 | 626 | 1,877 |
| 1987 | 2.8834 | 44.35 | 11.83 | 834 | 2,405 |
| 1988 | 2.7725 | 44.35 | 14.78 | 1,043 | 2,892 |
| 1989 | 2.6658 | 44.35 | 17.74 | 1,252 | 3,338 |
| 1990 | 2.5633 | 44.35 | 20.70 | 1,460 | 3,742 |
| 1991 | 2.4647 | 44.35 | 23.65 | 1,669 | 4,114 |
| 1992 | 2.3699 | 44.35 | 26.61 | 1,877 | 4,448 |
| 1993 | 2.2788 | 44.35 | 29.57 | 2,086 | 4,754 |
| 1994 | 2.1911 | 44.35 | 32.52 | 2,295 | 5,029 |
| 1995 | 2.1068 | 44.35 | 35.48 | 2,503 | 5,273 |
| 1996 | 2.0258 | 44.35 | 38.44 | 2,712 | 5,494 |
| 1997 | 1.9479 | 44.35 | 41.39 | 2,921 | 5,690 |
| 1998 | 1.8730 | 44.35 | 44.35 | 3,129 | 5,861 |
| 1999 | 1.8009 | 44.35 | 44.35 | 3,129 | 5,635 |
| 2000 | 1.7317 | 44.35 | 44.35 | 3,129 | 5,418 |
| 2001 | 1.6651 | 44.35 | 44.35 | 3,129 | 5,210 |
| 2002 | 1.6010 | 44.35 | 44.35 | 3,129 | 5,010 |
| 2003 | 1.5395 | 44.35 | 44.35 | 3,129 | 4,817 |
| 2004 | 1.4802 | 44.35 | 44.35 | 3,129 | 4,632 |
| 2005 | 1.4233 | 44.35 | 44.35 | 3,129 | 4,454 |
| 2006 | 1.3686 | 44.35 | 44.35 | 3,129 | 4,282 |
| 2007 | 1.3159 | 44.35 | 44.35 | 3,129 | 4,117 |
| 2008 | 1.2653 | 44.35 | 44.35 | 3,129 | 3,959 |
| 2009 | 1.2167 | 44.35 | 44.35 | 3,129 | 3,807 |
| 2010 | 1.1699 | 44.35 | 44.35 | 3,129 | 3,661 |
| 2011 | 1.1249 | 44.35 | 44.35 | 3,129 | 3,520 |
| 2012 | 1.0816 | 44.35 | 44.35 | 3,129 | 3,384 |
| 2013 | 1.0400 | 44.35 | 44.35 | 3,129 | 3,254 |
| 2014 | 1.0000 | 44.35 | 44.35 | 3,129 | 3,129 |
| 2015 | 0.9615 | 44.35 | 44.35 | 3,129 | 3,009 |
| 2016 | 0.9246 | 44.35 | 44.35 | 3,129 | 2,893 |
| 2017 | 0.8890 | 44.35 | 44.35 | 3,129 | 2,782 |
| 2018 | 0.8548 | 44.35 | 44.35 | 3,129 | 2,675 |
| 2019 | 0.8219 | 44.35 | 44.35 | 3,129 | 2,572 |
| 2020 | 0.7903 | 44.35 | 44.35 | 3,129 | 2,473 |
| 2021 | 0.7599 | 44.35 | 44.35 | 3,129 | 2,378 |
| 2022 | 0.7307 | 44.35 | 44.35 | 3,129 | 2,286 |
| 2023 | 0.7026 | 44.35 | 44.35 | 3,129 | 2,198 |
| 2024 | 0.6756 | 44.35 | 44.35 | 3,129 | 2,114 |
| 2025 | 0.6496 | 44.35 | 44.35 | 3,129 | 2,033 |
| 2026 | 0.6246 | 44.35 | 44.35 | 3,129 | 1,954 |
| 2027 | 0.6006 | 44.35 | 44.35 | 3,129 | 1,879 |
| 2028 | 0.5775 | 44.35 | 44.35 | 3,129 | 1,807 |
| 2029 | 0.5553 | 44.35 | 44.35 | 3,129 | 1,738 |
| 2030 | 0.5339 | 44.35 | 44.35 | 3,129 | 1,671 |
| 2031 | 0.5134 | 44.35 | 44.35 | 3,129 | 1,606 |
| 2032 | 0.4936 | 44.35 | 44.35 | 3,129 | 1,544 |
| 2033 | 0.4746 | 44.35 | 44.35 | 3,129 | 1,485 |
| 2034 | 0.4564 | 44.35 | 44.35 | 3,129 | 1,428 |
| 2035 | 0.4388 | 44.35 | 44.35 | 3,129 | 1,373 |
| 2036 | 0.4220 | 44.35 | 44.35 | 3,129 | 1,320 |
| 2037 | 0.4057 | 44.35 | 44.35 | 3,129 | 1,269 |
| 2038 | 0.3901 | 44.35 | 44.35 | 3,129 | 1,221 |
| 2039 | 0.3751 | 44.35 | 44.35 | 3,129 | 1,174 |
| 2040 | 0.3607 | 44.35 | 44.35 | 3,129 | 1,129 |
| 2041 | 0.3468 | 44.35 | 44.35 | 3,129 | 1,085 |
| 2042 | 0.3335 | 44.35 | 44.35 | 3,129 | 1,044 |
| 2043 | 0.3207 | 44.35 | 44.35 | 3,129 | 1,003 |

| | | | | | |
|------|--------|-------|-------|-------|---------|
| 2044 | 0.3083 | 44.35 | 44.35 | 3,129 | 965 |
| 2045 | 0.2965 | 44.35 | 44.35 | 3,129 | 928 |
| 2046 | 0.2851 | 44.35 | 44.35 | 3,129 | 892 |
| 2047 | 0.2741 | 44.35 | 44.35 | 3,129 | 858 |
| 2048 | 0.2636 | 44.35 | 44.35 | 3,129 | 825 |
| 2049 | 0.2534 | 44.35 | 44.35 | 3,129 | 793 |
| 2050 | 0.2437 | 44.35 | 44.35 | 3,129 | 763 |
| 2051 | 0.2343 | 44.35 | 44.35 | 3,129 | 733 |
| 2052 | 0.2253 | 44.35 | 44.35 | 3,129 | 705 |
| 2053 | 0.2166 | 44.35 | 44.35 | 3,129 | 678 |
| 2054 | 0.2083 | 44.35 | 44.35 | 3,129 | 652 |
| 2055 | 0.2003 | 44.35 | 44.35 | 3,129 | 627 |
| 2056 | 0.1926 | 44.35 | 44.35 | 3,129 | 603 |
| 2057 | 0.1852 | 44.35 | 44.35 | 3,129 | 579 |
| 2058 | 0.1780 | 44.35 | 44.35 | 3,129 | 557 |
| 2059 | 0.1712 | 44.35 | 44.35 | 3,129 | 536 |
| 2060 | 0.1646 | 44.35 | 44.35 | 3,129 | 515 |
| 2061 | 0.1583 | 44.35 | 44.35 | 3,129 | 495 |
| 2062 | 0.1522 | 44.35 | 44.35 | 3,129 | 476 |
| 2063 | 0.1463 | 44.35 | 44.35 | 3,129 | 458 |
| 合計 | | | | | 191,965 |

$$B = \sum_{t=1}^{T-1} \frac{t}{T \times (1+i)^t} + \sum_{t=T}^Y \frac{1}{(1+i)^t} \times \frac{(D2-D1) \times A \times P \times U \times 10}{365 \times 86400}$$

- A: 事業対象区域面積 (ha) 44.35 ~ 44.35
- P: 年間平均降雨量 (mm/年) 1,931
出典: 気象統計情報 (気象庁)
- D1: 事業実施前の貯留率 0.51
出典: 「森林の間伐と水収支」(近嵐ら、1987)
- D2: 事業実施後、T年経過後の貯留率 0.56
出典: 「森林の間伐と水収支」(近嵐ら、1987)
- T: 事業実施後、流出係数が安定するのに必要な年数 15
- U: 開発流量当りの利水ダム年間減価償却費 (円/m³/S) 1,038,000,000
出典: 「ダム年鑑2014」
- Y: 評価期間 80
- 10: 単位合わせのための調整値 10
- 365: 1年間の日数 365
- 86400: 1日の秒数 86,400

事業効果面積: 経過年ごとに発生する事業対象区域面積に対して、それぞれ流出係数等の安定する期間 (t/T) を考慮して面積に換算して年度毎に累計した面積

| 年度 | 社会的割引率 | 事業対象区域面積 | 事業効果面積 | 効果額 | 現在価値化 |
|-------|--------|----------|--------|-------|-------|
| 1.983 | 3.3731 | | | | |
| 1.984 | 3.2434 | 44.35 | 2.96 | 94 | 305 |
| 1.985 | 3.1187 | 44.35 | 5.91 | 188 | 586 |
| 1.986 | 2.9987 | 44.35 | 8.87 | 282 | 846 |
| 1.987 | 2.8834 | 44.35 | 11.83 | 376 | 1,084 |
| 1.988 | 2.7725 | 44.35 | 14.78 | 470 | 1,303 |
| 1.989 | 2.6658 | 44.35 | 17.74 | 564 | 1,504 |
| 1.990 | 2.5633 | 44.35 | 20.70 | 658 | 1,687 |
| 1.991 | 2.4647 | 44.35 | 23.65 | 752 | 1,853 |
| 1.992 | 2.3699 | 44.35 | 26.61 | 846 | 2,005 |
| 1.993 | 2.2788 | 44.35 | 29.57 | 939 | 2,140 |
| 1.994 | 2.1911 | 44.35 | 32.52 | 1,033 | 2,263 |
| 1.995 | 2.1068 | 44.35 | 35.48 | 1,127 | 2,374 |
| 1.996 | 2.0258 | 44.35 | 38.44 | 1,221 | 2,474 |
| 1.997 | 1.9479 | 44.35 | 41.39 | 1,315 | 2,561 |
| 1.998 | 1.8730 | 44.35 | 44.35 | 1,409 | 2,639 |
| 1.999 | 1.8009 | 44.35 | 44.35 | 1,409 | 2,537 |
| 2.000 | 1.7317 | 44.35 | 44.35 | 1,409 | 2,440 |
| 2.001 | 1.6651 | 44.35 | 44.35 | 1,409 | 2,346 |
| 2.002 | 1.6010 | 44.35 | 44.35 | 1,409 | 2,256 |
| 2.003 | 1.5395 | 44.35 | 44.35 | 1,409 | 2,169 |
| 2.004 | 1.4802 | 44.35 | 44.35 | 1,409 | 2,086 |
| 2.005 | 1.4233 | 44.35 | 44.35 | 1,409 | 2,005 |
| 2.006 | 1.3686 | 44.35 | 44.35 | 1,409 | 1,928 |
| 2.007 | 1.3159 | 44.35 | 44.35 | 1,409 | 1,854 |
| 2.008 | 1.2653 | 44.35 | 44.35 | 1,409 | 1,783 |
| 2.009 | 1.2167 | 44.35 | 44.35 | 1,409 | 1,714 |
| 2.010 | 1.1699 | 44.35 | 44.35 | 1,409 | 1,648 |
| 2.011 | 1.1249 | 44.35 | 44.35 | 1,409 | 1,585 |
| 2.012 | 1.0816 | 44.35 | 44.35 | 1,409 | 1,524 |
| 2.013 | 1.0400 | 44.35 | 44.35 | 1,409 | 1,465 |
| 2.014 | 1.0000 | 44.35 | 44.35 | 1,409 | 1,409 |
| 2.015 | 0.9615 | 44.35 | 44.35 | 1,409 | 1,355 |
| 2.016 | 0.9246 | 44.35 | 44.35 | 1,409 | 1,303 |
| 2.017 | 0.8890 | 44.35 | 44.35 | 1,409 | 1,253 |
| 2.018 | 0.8548 | 44.35 | 44.35 | 1,409 | 1,204 |
| 2.019 | 0.8219 | 44.35 | 44.35 | 1,409 | 1,158 |
| 2.020 | 0.7903 | 44.35 | 44.35 | 1,409 | 1,114 |
| 2.021 | 0.7599 | 44.35 | 44.35 | 1,409 | 1,071 |
| 2.022 | 0.7307 | 44.35 | 44.35 | 1,409 | 1,030 |
| 2.023 | 0.7026 | 44.35 | 44.35 | 1,409 | 990 |
| 2.024 | 0.6756 | 44.35 | 44.35 | 1,409 | 952 |
| 2.025 | 0.6496 | 44.35 | 44.35 | 1,409 | 915 |
| 2.026 | 0.6246 | 44.35 | 44.35 | 1,409 | 880 |
| 2.027 | 0.6006 | 44.35 | 44.35 | 1,409 | 846 |
| 2.028 | 0.5775 | 44.35 | 44.35 | 1,409 | 814 |
| 2.029 | 0.5553 | 44.35 | 44.35 | 1,409 | 782 |
| 2.030 | 0.5339 | 44.35 | 44.35 | 1,409 | 752 |
| 2.031 | 0.5134 | 44.35 | 44.35 | 1,409 | 723 |
| 2.032 | 0.4936 | 44.35 | 44.35 | 1,409 | 695 |
| 2.033 | 0.4746 | 44.35 | 44.35 | 1,409 | 669 |
| 2.034 | 0.4564 | 44.35 | 44.35 | 1,409 | 643 |
| 2.035 | 0.4388 | 44.35 | 44.35 | 1,409 | 618 |
| 2.036 | 0.4220 | 44.35 | 44.35 | 1,409 | 595 |
| 2.037 | 0.4057 | 44.35 | 44.35 | 1,409 | 572 |
| 2.038 | 0.3901 | 44.35 | 44.35 | 1,409 | 550 |
| 2.039 | 0.3751 | 44.35 | 44.35 | 1,409 | 529 |

| | | | | | |
|-------|--------|-------|-------|-------|--------|
| 2.040 | 0.3607 | 44.35 | 44.35 | 1,409 | 508 |
| 2.041 | 0.3468 | 44.35 | 44.35 | 1,409 | 489 |
| 2.042 | 0.3335 | 44.35 | 44.35 | 1,409 | 470 |
| 2.043 | 0.3207 | 44.35 | 44.35 | 1,409 | 452 |
| 2.044 | 0.3083 | 44.35 | 44.35 | 1,409 | 434 |
| 2.045 | 0.2965 | 44.35 | 44.35 | 1,409 | 418 |
| 2.046 | 0.2851 | 44.35 | 44.35 | 1,409 | 402 |
| 2.047 | 0.2741 | 44.35 | 44.35 | 1,409 | 386 |
| 2.048 | 0.2636 | 44.35 | 44.35 | 1,409 | 371 |
| 2.049 | 0.2534 | 44.35 | 44.35 | 1,409 | 357 |
| 2.050 | 0.2437 | 44.35 | 44.35 | 1,409 | 343 |
| 2.051 | 0.2343 | 44.35 | 44.35 | 1,409 | 330 |
| 2.052 | 0.2253 | 44.35 | 44.35 | 1,409 | 317 |
| 2.053 | 0.2166 | 44.35 | 44.35 | 1,409 | 305 |
| 2.054 | 0.2083 | 44.35 | 44.35 | 1,409 | 293 |
| 2.055 | 0.2003 | 44.35 | 44.35 | 1,409 | 282 |
| 2.056 | 0.1926 | 44.35 | 44.35 | 1,409 | 271 |
| 2.057 | 0.1852 | 44.35 | 44.35 | 1,409 | 261 |
| 2.058 | 0.1780 | 44.35 | 44.35 | 1,409 | 251 |
| 2.059 | 0.1712 | 44.35 | 44.35 | 1,409 | 241 |
| 2.060 | 0.1646 | 44.35 | 44.35 | 1,409 | 232 |
| 2.061 | 0.1583 | 44.35 | 44.35 | 1,409 | 223 |
| 2.062 | 0.1522 | 44.35 | 44.35 | 1,409 | 214 |
| 2.063 | 0.1463 | 44.35 | 44.35 | 1,409 | 206 |
| 合計 | | | | | 86,442 |

$$B = \left[\sum_{t=1}^{T-1} \frac{t}{T \times (1+i)^t} + \sum_{t=T}^Y \frac{1}{(1+i)^t} \right] \times (D2-D1) \times A \times P \times u \times 10$$

$$u = \frac{U_x \times Q_x + U_y \times Q_y}{Q_x + Q_y}$$

- Qx: 全貯留量のうち生活用水使用相当量 13.60 億
出典:「日本の水資源(平成25年度版)」(国土交通省)
- Qy: 全貯留量-Qx 391.92 億
- A: 事業対象区域面積 (ha) 44.35 ~ 44.35
- P: 年間平均降雨量 (mm/年) 1,931
出典: 気象統計情報 (気象庁)
- T: 事業実施後、貯留率が安定するのに必要な年数 15
- D1: 事業実施前の貯留率 0.51
出典: 「森林の間伐と水収支」(近嵐ら, 1987)
- D2: 事業実施後、T年経過後の貯留率 0.56
出典: 「森林の間伐と水収支」(近嵐ら, 1987)
- Ux: 単位当たりの上水道供給単価 (円/m3) 183.28
出典: 「地方公営企業年鑑(平成24年度版)」(総務省)等
- Uy: 単位当たりの雨水浄化費 (円/m3) 68.60
出典: 「地球環境・人間生活にかかる農業及び森林の多面的な機能の評価に関する調査研究報告書」(三菱総合研究所,H13.11)「雨水利用ハンドブック」
- u: 単位当たりの水質浄化費 (Ux と Uy を用いて Qx と Qy で比例按分して算出) 72.45
- Y: 評価期間 80
- 10: 単位合わせのための調整値

事業効果面積: 経過年ごとに発生する事業対象区域面積に対して、それぞれ流出係数等の安定する期間 (t/T) を考慮して面積に換算して年度毎に累計した面積

| 年度 | 社会的割引率 | 事業対象区域面積 | 事業効果面積 | 効果額 | 現在価値化 |
|------|--------|----------|--------|-------|-------|
| 1983 | 3.3731 | | | | |
| 1984 | 3.2434 | 44.35 | 2.96 | 207 | 671 |
| 1985 | 3.1187 | 44.35 | 5.91 | 414 | 1,291 |
| 1986 | 2.9987 | 44.35 | 8.87 | 620 | 1,859 |
| 1987 | 2.8834 | 44.35 | 11.83 | 827 | 2,385 |
| 1988 | 2.7725 | 44.35 | 14.78 | 1,034 | 2,867 |
| 1989 | 2.6658 | 44.35 | 17.74 | 1,241 | 3,308 |
| 1990 | 2.5633 | 44.35 | 20.70 | 1,448 | 3,712 |
| 1991 | 2.4647 | 44.35 | 23.65 | 1,654 | 4,077 |
| 1992 | 2.3699 | 44.35 | 26.61 | 1,861 | 4,410 |
| 1993 | 2.2788 | 44.35 | 29.57 | 2,068 | 4,713 |
| 1994 | 2.1911 | 44.35 | 32.52 | 2,275 | 4,985 |
| 1995 | 2.1068 | 44.35 | 35.48 | 2,482 | 5,229 |
| 1996 | 2.0258 | 44.35 | 38.44 | 2,688 | 5,445 |
| 1997 | 1.9479 | 44.35 | 41.39 | 2,895 | 5,639 |
| 1998 | 1.8730 | 44.35 | 44.35 | 3,102 | 5,810 |
| 1999 | 1.8009 | 44.35 | 44.35 | 3,102 | 5,586 |
| 2000 | 1.7317 | 44.35 | 44.35 | 3,102 | 5,372 |
| 2001 | 1.6651 | 44.35 | 44.35 | 3,102 | 5,165 |
| 2002 | 1.6010 | 44.35 | 44.35 | 3,102 | 4,966 |
| 2003 | 1.5395 | 44.35 | 44.35 | 3,102 | 4,776 |
| 2004 | 1.4802 | 44.35 | 44.35 | 3,102 | 4,592 |
| 2005 | 1.4233 | 44.35 | 44.35 | 3,102 | 4,415 |
| 2006 | 1.3686 | 44.35 | 44.35 | 3,102 | 4,245 |
| 2007 | 1.3159 | 44.35 | 44.35 | 3,102 | 4,082 |
| 2008 | 1.2653 | 44.35 | 44.35 | 3,102 | 3,925 |
| 2009 | 1.2167 | 44.35 | 44.35 | 3,102 | 3,774 |
| 2010 | 1.1699 | 44.35 | 44.35 | 3,102 | 3,629 |
| 2011 | 1.1249 | 44.35 | 44.35 | 3,102 | 3,489 |
| 2012 | 1.0816 | 44.35 | 44.35 | 3,102 | 3,355 |
| 2013 | 1.0400 | 44.35 | 44.35 | 3,102 | 3,226 |
| 2014 | 1.0000 | 44.35 | 44.35 | 3,102 | 3,102 |
| 2015 | 0.9615 | 44.35 | 44.35 | 3,102 | 2,983 |
| 2016 | 0.9246 | 44.35 | 44.35 | 3,102 | 2,868 |
| 2017 | 0.8890 | 44.35 | 44.35 | 3,102 | 2,758 |
| 2018 | 0.8548 | 44.35 | 44.35 | 3,102 | 2,652 |
| 2019 | 0.8219 | 44.35 | 44.35 | 3,102 | 2,550 |
| 2020 | 0.7903 | 44.35 | 44.35 | 3,102 | 2,452 |
| 2021 | 0.7599 | 44.35 | 44.35 | 3,102 | 2,357 |
| 2022 | 0.7307 | 44.35 | 44.35 | 3,102 | 2,267 |
| 2023 | 0.7026 | 44.35 | 44.35 | 3,102 | 2,179 |
| 2024 | 0.6756 | 44.35 | 44.35 | 3,102 | 2,096 |
| 2025 | 0.6496 | 44.35 | 44.35 | 3,102 | 2,015 |
| 2026 | 0.6246 | 44.35 | 44.35 | 3,102 | 1,938 |
| 2027 | 0.6006 | 44.35 | 44.35 | 3,102 | 1,863 |
| 2028 | 0.5775 | 44.35 | 44.35 | 3,102 | 1,791 |
| 2029 | 0.5553 | 44.35 | 44.35 | 3,102 | 1,723 |
| 2030 | 0.5339 | 44.35 | 44.35 | 3,102 | 1,656 |
| 2031 | 0.5134 | 44.35 | 44.35 | 3,102 | 1,593 |

| | | | | | |
|------|--------|-------|-------|-------|---------|
| 2032 | 0.4936 | 44.35 | 44.35 | 3,102 | 1,531 |
| 2033 | 0.4746 | 44.35 | 44.35 | 3,102 | 1,472 |
| 2034 | 0.4564 | 44.35 | 44.35 | 3,102 | 1,416 |
| 2035 | 0.4388 | 44.35 | 44.35 | 3,102 | 1,361 |
| 2036 | 0.4220 | 44.35 | 44.35 | 3,102 | 1,309 |
| 2037 | 0.4057 | 44.35 | 44.35 | 3,102 | 1,258 |
| 2038 | 0.3901 | 44.35 | 44.35 | 3,102 | 1,210 |
| 2039 | 0.3751 | 44.35 | 44.35 | 3,102 | 1,164 |
| 2040 | 0.3607 | 44.35 | 44.35 | 3,102 | 1,119 |
| 2041 | 0.3468 | 44.35 | 44.35 | 3,102 | 1,076 |
| 2042 | 0.3335 | 44.35 | 44.35 | 3,102 | 1,035 |
| 2043 | 0.3207 | 44.35 | 44.35 | 3,102 | 995 |
| 2044 | 0.3083 | 44.35 | 44.35 | 3,102 | 956 |
| 2045 | 0.2965 | 44.35 | 44.35 | 3,102 | 920 |
| 2046 | 0.2851 | 44.35 | 44.35 | 3,102 | 884 |
| 2047 | 0.2741 | 44.35 | 44.35 | 3,102 | 850 |
| 2048 | 0.2636 | 44.35 | 44.35 | 3,102 | 818 |
| 2049 | 0.2534 | 44.35 | 44.35 | 3,102 | 786 |
| 2050 | 0.2437 | 44.35 | 44.35 | 3,102 | 756 |
| 2051 | 0.2343 | 44.35 | 44.35 | 3,102 | 727 |
| 2052 | 0.2253 | 44.35 | 44.35 | 3,102 | 699 |
| 2053 | 0.2166 | 44.35 | 44.35 | 3,102 | 672 |
| 2054 | 0.2083 | 44.35 | 44.35 | 3,102 | 646 |
| 2055 | 0.2003 | 44.35 | 44.35 | 3,102 | 621 |
| 2056 | 0.1926 | 44.35 | 44.35 | 3,102 | 597 |
| 2057 | 0.1852 | 44.35 | 44.35 | 3,102 | 574 |
| 2058 | 0.1780 | 44.35 | 44.35 | 3,102 | 552 |
| 2059 | 0.1712 | 44.35 | 44.35 | 3,102 | 531 |
| 2060 | 0.1646 | 44.35 | 44.35 | 3,102 | 511 |
| 2061 | 0.1583 | 44.35 | 44.35 | 3,102 | 491 |
| 2062 | 0.1522 | 44.35 | 44.35 | 3,102 | 472 |
| 2063 | 0.1463 | 44.35 | 44.35 | 3,102 | 454 |
| 合計 | | | | | 190,304 |

$$B = \sum_{t=1}^{T-1} \frac{t}{T \times (1+i)^t} + \sum_{t=T}^Y \frac{1}{(1+i)^t} \times \frac{(V1-V2) \times A \times U}{1.0}$$

- U: 1m3の土砂を保全するために要する単位当たりの砂防ダム建設コスト(円/m3) 5,600
 出典:「砂防便覧」平成20年版
- V1: 事業実施前における1ha当りの年間浸食土砂量(m3) 20.00
 出典:「治山全体調査の考え方進め方」

| | |
|---------------------|--------|
| 「森林の公益的機能に関する文献要約集」 | 「森林水文」 |
|---------------------|--------|

 「荒廃地等」
- V2: 事業実施後における1ha当りの年間浸食土砂量(m3) 1.30
 出典:「治山全体調査の考え方進め方」

| | |
|---------------------|--------|
| 「森林の公益的機能に関する文献要約集」 | 「森林水文」 |
|---------------------|--------|

 「整備済森林」
- A: 事業対象区域面積(ha) 44.35 ~ 44.35
- T: 事業実施後、流出係数が安定するのに必要な年数 15
- Y: 評価期間 80

事業効果面積: 経過年ごとに発生する事業対象区域面積に対して、それぞれ流出係数等の安定する期間(t/T)を考慮して面積に換算して年度毎に累計した面積

| 年度 | 社会的割引率 | 事業対象区域面積 | 事業効果面積 | 効果額 | 現在価値化 |
|------|--------|----------|--------|-------|-------|
| 1983 | 3.3731 | | | | |
| 1984 | 3.2434 | 44.35 | 2.96 | 310 | 1,005 |
| 1985 | 3.1187 | 44.35 | 5.91 | 619 | 1,930 |
| 1986 | 2.9987 | 44.35 | 8.87 | 929 | 2,786 |
| 1987 | 2.8834 | 44.35 | 11.83 | 1,238 | 3,570 |
| 1988 | 2.7725 | 44.35 | 14.78 | 1,548 | 4,292 |
| 1989 | 2.6658 | 44.35 | 17.74 | 1,858 | 4,953 |
| 1990 | 2.5633 | 44.35 | 20.70 | 2,167 | 5,555 |
| 1991 | 2.4647 | 44.35 | 23.65 | 2,477 | 6,105 |
| 1992 | 2.3699 | 44.35 | 26.61 | 2,787 | 6,605 |
| 1993 | 2.2788 | 44.35 | 29.57 | 3,096 | 7,055 |
| 1994 | 2.1911 | 44.35 | 32.52 | 3,406 | 7,463 |
| 1995 | 2.1068 | 44.35 | 35.48 | 3,715 | 7,827 |
| 1996 | 2.0258 | 44.35 | 38.44 | 4,025 | 8,154 |
| 1997 | 1.9479 | 44.35 | 41.39 | 4,335 | 8,444 |
| 1998 | 1.8730 | 44.35 | 44.35 | 4,644 | 8,698 |
| 1999 | 1.8009 | 44.35 | 44.35 | 4,644 | 8,363 |
| 2000 | 1.7317 | 44.35 | 44.35 | 4,644 | 8,042 |
| 2001 | 1.6651 | 44.35 | 44.35 | 4,644 | 7,733 |
| 2002 | 1.6010 | 44.35 | 44.35 | 4,644 | 7,435 |
| 2003 | 1.5395 | 44.35 | 44.35 | 4,644 | 7,149 |
| 2004 | 1.4802 | 44.35 | 44.35 | 4,644 | 6,874 |
| 2005 | 1.4233 | 44.35 | 44.35 | 4,644 | 6,610 |
| 2006 | 1.3686 | 44.35 | 44.35 | 4,644 | 6,356 |
| 2007 | 1.3159 | 44.35 | 44.35 | 4,644 | 6,111 |
| 2008 | 1.2653 | 44.35 | 44.35 | 4,644 | 5,876 |
| 2009 | 1.2167 | 44.35 | 44.35 | 4,644 | 5,650 |
| 2010 | 1.1699 | 44.35 | 44.35 | 4,644 | 5,433 |
| 2011 | 1.1249 | 44.35 | 44.35 | 4,644 | 5,224 |
| 2012 | 1.0816 | 44.35 | 44.35 | 4,644 | 5,023 |
| 2013 | 1.0400 | 44.35 | 44.35 | 4,644 | 4,830 |
| 2014 | 1.0000 | 44.35 | 44.35 | 4,644 | 4,644 |
| 2015 | 0.9615 | 44.35 | 44.35 | 4,644 | 4,465 |
| 2016 | 0.9246 | 44.35 | 44.35 | 4,644 | 4,294 |
| 2017 | 0.8890 | 44.35 | 44.35 | 4,644 | 4,129 |
| 2018 | 0.8548 | 44.35 | 44.35 | 4,644 | 3,970 |
| 2019 | 0.8219 | 44.35 | 44.35 | 4,644 | 3,817 |
| 2020 | 0.7903 | 44.35 | 44.35 | 4,644 | 3,670 |
| 2021 | 0.7599 | 44.35 | 44.35 | 4,644 | 3,529 |
| 2022 | 0.7307 | 44.35 | 44.35 | 4,644 | 3,393 |
| 2023 | 0.7026 | 44.35 | 44.35 | 4,644 | 3,263 |
| 2024 | 0.6756 | 44.35 | 44.35 | 4,644 | 3,137 |
| 2025 | 0.6496 | 44.35 | 44.35 | 4,644 | 3,017 |
| 2026 | 0.6246 | 44.35 | 44.35 | 4,644 | 2,901 |
| 2027 | 0.6006 | 44.35 | 44.35 | 4,644 | 2,789 |
| 2028 | 0.5775 | 44.35 | 44.35 | 4,644 | 2,682 |
| 2029 | 0.5553 | 44.35 | 44.35 | 4,644 | 2,579 |
| 2030 | 0.5339 | 44.35 | 44.35 | 4,644 | 2,479 |
| 2031 | 0.5134 | 44.35 | 44.35 | 4,644 | 2,384 |
| 2032 | 0.4936 | 44.35 | 44.35 | 4,644 | 2,292 |
| 2033 | 0.4746 | 44.35 | 44.35 | 4,644 | 2,204 |
| 2034 | 0.4564 | 44.35 | 44.35 | 4,644 | 2,120 |
| 2035 | 0.4388 | 44.35 | 44.35 | 4,644 | 2,038 |
| 2036 | 0.4220 | 44.35 | 44.35 | 4,644 | 1,960 |
| 2037 | 0.4057 | 44.35 | 44.35 | 4,644 | 1,884 |
| 2038 | 0.3901 | 44.35 | 44.35 | 4,644 | 1,812 |
| 2039 | 0.3751 | 44.35 | 44.35 | 4,644 | 1,742 |
| 2040 | 0.3607 | 44.35 | 44.35 | 4,644 | 1,675 |
| 2041 | 0.3468 | 44.35 | 44.35 | 4,644 | 1,611 |
| 2042 | 0.3335 | 44.35 | 44.35 | 4,644 | 1,549 |
| 2043 | 0.3207 | 44.35 | 44.35 | 4,644 | 1,489 |
| 2044 | 0.3083 | 44.35 | 44.35 | 4,644 | 1,432 |
| 2045 | 0.2965 | 44.35 | 44.35 | 4,644 | 1,377 |
| 2046 | 0.2851 | 44.35 | 44.35 | 4,644 | 1,324 |
| 2047 | 0.2741 | 44.35 | 44.35 | 4,644 | 1,273 |

| | | | | | |
|------|--------|-------|-------|-------|---------|
| 2048 | 0.2636 | 44.35 | 44.35 | 4,644 | 1,224 |
| 2049 | 0.2534 | 44.35 | 44.35 | 4,644 | 1,177 |
| 2050 | 0.2437 | 44.35 | 44.35 | 4,644 | 1,132 |
| 2051 | 0.2343 | 44.35 | 44.35 | 4,644 | 1,088 |
| 2052 | 0.2253 | 44.35 | 44.35 | 4,644 | 1,046 |
| 2053 | 0.2166 | 44.35 | 44.35 | 4,644 | 1,006 |
| 2054 | 0.2083 | 44.35 | 44.35 | 4,644 | 967 |
| 2055 | 0.2003 | 44.35 | 44.35 | 4,644 | 930 |
| 2056 | 0.1926 | 44.35 | 44.35 | 4,644 | 894 |
| 2057 | 0.1852 | 44.35 | 44.35 | 4,644 | 860 |
| 2058 | 0.1780 | 44.35 | 44.35 | 4,644 | 827 |
| 2059 | 0.1712 | 44.35 | 44.35 | 4,644 | 795 |
| 2060 | 0.1646 | 44.35 | 44.35 | 4,644 | 764 |
| 2061 | 0.1583 | 44.35 | 44.35 | 4,644 | 735 |
| 2062 | 0.1522 | 44.35 | 44.35 | 4,644 | 707 |
| 2063 | 0.1463 | 44.35 | 44.35 | 4,644 | 679 |
| 合計 | | | | | 284,906 |

$$B = \sum_{t=11}^Y \frac{V \times U}{(1+i)^t}$$

$$V = 0.01 \times A \times R \times N \times H \times 10,000$$

- U: 1m3の土砂を保全するために要する単位当たりの砂防ダム建設コスト(円/m3) 5,600
出典:「砂防便覧」平成20年版
- V: 崩壊見込み量(m3/年) 0.00 ~ 13.82
- A: 事業対象区域面積(ha) 44.35 ~ 44.35
- R: 流域内崩壊率 0.0025
出典:「治山全体調査」S42からS46
- N: 雨量比=50年確率日雨量/既往最大日雨量 0.9588
出典:気象統計情報(気象庁)
- H: 平均崩壊深(m) 1.3
出典:都道府県等への聞き取り
- Y: 評価期間 80
- 10,000: 単位合わせのための調整値

| 年度 | 社会的割引率 | 事業対象区域面積 | 崩壊見込み量 | 効果額 | 現在価値化 |
|------|--------|----------|--------|-----|-------|
| 1983 | 3.3731 | | | | |
| 1984 | 3.2434 | 44.35 | 0.00 | 0 | 0 |
| 1985 | 3.1187 | 44.35 | 0.00 | 0 | 0 |
| 1986 | 2.9987 | 44.35 | 0.00 | 0 | 0 |
| 1987 | 2.8834 | 44.35 | 0.00 | 0 | 0 |
| 1988 | 2.7725 | 44.35 | 0.00 | 0 | 0 |
| 1989 | 2.6658 | 44.35 | 0.00 | 0 | 0 |
| 1990 | 2.5633 | 44.35 | 0.00 | 0 | 0 |
| 1991 | 2.4647 | 44.35 | 0.00 | 0 | 0 |
| 1992 | 2.3699 | 44.35 | 0.00 | 0 | 0 |
| 1993 | 2.2788 | 44.35 | 0.00 | 0 | 0 |
| 1994 | 2.1911 | 44.35 | 13.82 | 77 | 169 |
| 1995 | 2.1068 | 44.35 | 13.82 | 77 | 162 |
| 1996 | 2.0258 | 44.35 | 13.82 | 77 | 156 |
| 1997 | 1.9479 | 44.35 | 13.82 | 77 | 150 |
| 1998 | 1.8730 | 44.35 | 13.82 | 77 | 144 |
| 1999 | 1.8009 | 44.35 | 13.82 | 77 | 139 |
| 2000 | 1.7317 | 44.35 | 13.82 | 77 | 133 |
| 2001 | 1.6651 | 44.35 | 13.82 | 77 | 128 |
| 2002 | 1.6010 | 44.35 | 13.82 | 77 | 123 |
| 2003 | 1.5395 | 44.35 | 13.82 | 77 | 119 |
| 2004 | 1.4802 | 44.35 | 13.82 | 77 | 114 |
| 2005 | 1.4233 | 44.35 | 13.82 | 77 | 110 |
| 2006 | 1.3686 | 44.35 | 13.82 | 77 | 105 |
| 2007 | 1.3159 | 44.35 | 13.82 | 77 | 101 |
| 2008 | 1.2653 | 44.35 | 13.82 | 77 | 97 |
| 2009 | 1.2167 | 44.35 | 13.82 | 77 | 94 |
| 2010 | 1.1699 | 44.35 | 13.82 | 77 | 90 |
| 2011 | 1.1249 | 44.35 | 13.82 | 77 | 87 |
| 2012 | 1.0816 | 44.35 | 13.82 | 77 | 83 |
| 2013 | 1.0400 | 44.35 | 13.82 | 77 | 80 |
| 2014 | 1.0000 | 44.35 | 13.82 | 77 | 77 |
| 2015 | 0.9615 | 44.35 | 13.82 | 77 | 74 |
| 2016 | 0.9246 | 44.35 | 13.82 | 77 | 71 |
| 2017 | 0.8890 | 44.35 | 13.82 | 77 | 68 |
| 2018 | 0.8548 | 44.35 | 13.82 | 77 | 66 |
| 2019 | 0.8219 | 44.35 | 13.82 | 77 | 63 |
| 2020 | 0.7903 | 44.35 | 13.82 | 77 | 61 |
| 2021 | 0.7599 | 44.35 | 13.82 | 77 | 59 |
| 2022 | 0.7307 | 44.35 | 13.82 | 77 | 56 |
| 2023 | 0.7026 | 44.35 | 13.82 | 77 | 54 |
| 2024 | 0.6756 | 44.35 | 13.82 | 77 | 52 |
| 2025 | 0.6496 | 44.35 | 13.82 | 77 | 50 |
| 2026 | 0.6246 | 44.35 | 13.82 | 77 | 48 |
| 2027 | 0.6006 | 44.35 | 13.82 | 77 | 46 |
| 2028 | 0.5775 | 44.35 | 13.82 | 77 | 44 |
| 2029 | 0.5553 | 44.35 | 13.82 | 77 | 43 |
| 2030 | 0.5339 | 44.35 | 13.82 | 77 | 41 |
| 2031 | 0.5134 | 44.35 | 13.82 | 77 | 40 |
| 2032 | 0.4936 | 44.35 | 13.82 | 77 | 38 |
| 2033 | 0.4746 | 44.35 | 13.82 | 77 | 37 |
| 2034 | 0.4564 | 44.35 | 13.82 | 77 | 35 |
| 2035 | 0.4388 | 44.35 | 13.82 | 77 | 34 |
| 2036 | 0.4220 | 44.35 | 13.82 | 77 | 32 |
| 2037 | 0.4057 | 44.35 | 13.82 | 77 | 31 |
| 2038 | 0.3901 | 44.35 | 13.82 | 77 | 30 |
| 2039 | 0.3751 | 44.35 | 13.82 | 77 | 29 |
| 2040 | 0.3607 | 44.35 | 13.82 | 77 | 28 |
| 2041 | 0.3468 | 44.35 | 13.82 | 77 | 27 |

| | | | | | |
|------|--------|-------|-------|----|-------|
| 2042 | 0.3335 | 44.35 | 13.82 | 77 | 26 |
| 2043 | 0.3207 | 44.35 | 13.82 | 77 | 25 |
| 2044 | 0.3083 | 44.35 | 13.82 | 77 | 24 |
| 2045 | 0.2965 | 44.35 | 13.82 | 77 | 23 |
| 2046 | 0.2851 | 44.35 | 13.82 | 77 | 22 |
| 2047 | 0.2741 | 44.35 | 13.82 | 77 | 21 |
| 2048 | 0.2636 | 44.35 | 13.82 | 77 | 20 |
| 2049 | 0.2534 | 44.35 | 13.82 | 77 | 20 |
| 2050 | 0.2437 | 44.35 | 13.82 | 77 | 19 |
| 2051 | 0.2343 | 44.35 | 13.82 | 77 | 18 |
| 2052 | 0.2253 | 44.35 | 13.82 | 77 | 17 |
| 2053 | 0.2166 | 44.35 | 13.82 | 77 | 17 |
| 2054 | 0.2083 | 44.35 | 13.82 | 77 | 16 |
| 2055 | 0.2003 | 44.35 | 13.82 | 77 | 15 |
| 2056 | 0.1926 | 44.35 | 13.82 | 77 | 15 |
| 2057 | 0.1852 | 44.35 | 13.82 | 77 | 14 |
| 2058 | 0.1780 | 44.35 | 13.82 | 77 | 14 |
| 2059 | 0.1712 | 44.35 | 13.82 | 77 | 13 |
| 2060 | 0.1646 | 44.35 | 13.82 | 77 | 13 |
| 2061 | 0.1583 | 44.35 | 13.82 | 77 | 12 |
| 2062 | 0.1522 | 44.35 | 13.82 | 77 | 12 |
| 2063 | 0.1463 | 44.35 | 13.82 | 77 | 11 |
| 合計 | | | | | 4,105 |

| | | | | | | | | | | | | | | |
|------|--------|--------|-----|--|--|--|--|--|--|--|--|--|--|--|
| 2017 | 0.8890 | 126.12 | 675 | | | | | | | | | | | |
| 2018 | 0.8548 | 126.12 | 675 | | | | | | | | | | | |
| 2019 | 0.8219 | 126.12 | 675 | | | | | | | | | | | |
| 2020 | 0.7903 | 126.12 | 675 | | | | | | | | | | | |
| 2021 | 0.7599 | 126.12 | 675 | | | | | | | | | | | |
| 2022 | 0.7307 | 126.12 | 675 | | | | | | | | | | | |
| 2023 | 0.7026 | 126.12 | 675 | | | | | | | | | | | |
| 2024 | 0.6756 | 126.12 | 675 | | | | | | | | | | | |
| 2025 | 0.6496 | 126.12 | 675 | | | | | | | | | | | |
| 2026 | 0.6246 | 126.12 | 675 | | | | | | | | | | | |
| 2027 | 0.6006 | 126.12 | 675 | | | | | | | | | | | |
| 2028 | 0.5775 | 126.12 | 675 | | | | | | | | | | | |
| 2029 | 0.5553 | 126.12 | 675 | | | | | | | | | | | |
| 2030 | 0.5339 | 126.12 | 675 | | | | | | | | | | | |
| 2031 | 0.5134 | 126.12 | 675 | | | | | | | | | | | |
| 2032 | 0.4936 | 126.12 | 675 | | | | | | | | | | | |
| 2033 | 0.4746 | 126.12 | 675 | | | | | | | | | | | |
| 2034 | 0.4564 | 126.12 | 675 | | | | | | | | | | | |
| 2035 | 0.4388 | 126.12 | 675 | | | | | | | | | | | |
| 2036 | 0.4220 | 126.12 | 675 | | | | | | | | | | | |
| 2037 | 0.4057 | 126.12 | 675 | | | | | | | | | | | |
| 2038 | 0.3901 | 126.12 | 675 | | | | | | | | | | | |
| 2039 | 0.3751 | 126.12 | 675 | | | | | | | | | | | |
| 2040 | 0.3607 | 126.12 | 675 | | | | | | | | | | | |
| 2041 | 0.3468 | 126.12 | 675 | | | | | | | | | | | |
| 2042 | 0.3335 | 126.12 | 675 | | | | | | | | | | | |
| 2043 | 0.3207 | 126.12 | 675 | | | | | | | | | | | |
| 2044 | 0.3083 | 126.12 | 675 | | | | | | | | | | | |
| 2045 | 0.2965 | 126.12 | 675 | | | | | | | | | | | |
| 2046 | 0.2851 | 126.12 | 675 | | | | | | | | | | | |
| 2047 | 0.2741 | 126.12 | 675 | | | | | | | | | | | |
| 2048 | 0.2636 | 126.12 | 675 | | | | | | | | | | | |
| 2049 | 0.2534 | 126.12 | 675 | | | | | | | | | | | |
| 2050 | 0.2437 | 126.12 | 675 | | | | | | | | | | | |
| 2051 | 0.2343 | 126.12 | 675 | | | | | | | | | | | |
| 2052 | 0.2253 | 126.12 | 675 | | | | | | | | | | | |
| 2053 | 0.2166 | 126.12 | 675 | | | | | | | | | | | |
| 2054 | 0.2083 | 126.12 | 675 | | | | | | | | | | | |
| 2055 | 0.2003 | 126.12 | 675 | | | | | | | | | | | |
| 2056 | 0.1926 | 126.12 | 675 | | | | | | | | | | | |
| 2057 | 0.1852 | 126.12 | 675 | | | | | | | | | | | |
| 2058 | 0.1780 | 126.12 | 675 | | | | | | | | | | | |
| 2059 | 0.1712 | 126.12 | 675 | | | | | | | | | | | |
| 2060 | 0.1646 | 126.12 | 675 | | | | | | | | | | | |
| 2061 | 0.1583 | 126.12 | 675 | | | | | | | | | | | |
| 2062 | 0.1522 | 126.12 | 675 | | | | | | | | | | | |
| 2063 | 0.1463 | 126.12 | 675 | | | | | | | | | | | |
| 合計 | | | | | | | | | | | | | | |

| 年度 | 社会的割引率 | 合計 | |
|------|--------|-----|-------|
| | | 効果額 | 現在価値化 |
| 1983 | 3.3731 | | |
| 1984 | 3.2434 | 675 | 2,189 |
| 1985 | 3.1187 | 675 | 2,105 |
| 1986 | 2.9987 | 675 | 2,024 |
| 1987 | 2.8834 | 675 | 1,946 |
| 1988 | 2.7725 | 675 | 1,871 |
| 1989 | 2.6658 | 675 | 1,799 |
| 1990 | 2.5633 | 675 | 1,730 |
| 1991 | 2.4647 | 675 | 1,664 |
| 1992 | 2.3699 | 675 | 1,600 |
| 1993 | 2.2788 | 675 | 1,538 |
| 1994 | 2.1911 | 675 | 1,479 |
| 1995 | 2.1068 | 675 | 1,422 |
| 1996 | 2.0258 | 675 | 1,367 |
| 1997 | 1.9479 | 675 | 1,315 |
| 1998 | 1.8730 | 675 | 1,264 |
| 1999 | 1.8009 | 675 | 1,216 |
| 2000 | 1.7317 | 675 | 1,169 |
| 2001 | 1.6651 | 675 | 1,124 |
| 2002 | 1.6010 | 675 | 1,081 |
| 2003 | 1.5395 | 675 | 1,039 |
| 2004 | 1.4802 | 675 | 999 |
| 2005 | 1.4233 | 675 | 961 |
| 2006 | 1.3686 | 675 | 924 |
| 2007 | 1.3159 | 675 | 888 |
| 2008 | 1.2653 | 675 | 854 |
| 2009 | 1.2167 | 675 | 821 |
| 2010 | 1.1699 | 675 | 790 |
| 2011 | 1.1249 | 675 | 759 |
| 2012 | 1.0816 | 675 | 730 |
| 2013 | 1.0400 | 675 | 702 |
| 2014 | 1.0000 | 675 | 675 |
| 2015 | 0.9615 | 675 | 649 |
| 2016 | 0.9246 | 675 | 624 |
| 2017 | 0.8890 | 675 | 600 |
| 2018 | 0.8548 | 675 | 577 |
| 2019 | 0.8219 | 675 | 555 |
| 2020 | 0.7903 | 675 | 533 |
| 2021 | 0.7599 | 675 | 513 |

| | | | |
|------|--------|-----|--------|
| 2022 | 0.7307 | 675 | 493 |
| 2023 | 0.7026 | 675 | 474 |
| 2024 | 0.6756 | 675 | 456 |
| 2025 | 0.6496 | 675 | 438 |
| 2026 | 0.6246 | 675 | 422 |
| 2027 | 0.6006 | 675 | 405 |
| 2028 | 0.5775 | 675 | 390 |
| 2029 | 0.5553 | 675 | 375 |
| 2030 | 0.5339 | 675 | 360 |
| 2031 | 0.5134 | 675 | 347 |
| 2032 | 0.4936 | 675 | 333 |
| 2033 | 0.4746 | 675 | 320 |
| 2034 | 0.4564 | 675 | 308 |
| 2035 | 0.4388 | 675 | 296 |
| 2036 | 0.4220 | 675 | 285 |
| 2037 | 0.4057 | 675 | 274 |
| 2038 | 0.3901 | 675 | 263 |
| 2039 | 0.3751 | 675 | 253 |
| 2040 | 0.3607 | 675 | 243 |
| 2041 | 0.3468 | 675 | 234 |
| 2042 | 0.3335 | 675 | 225 |
| 2043 | 0.3207 | 675 | 216 |
| 2044 | 0.3083 | 675 | 208 |
| 2045 | 0.2965 | 675 | 200 |
| 2046 | 0.2851 | 675 | 192 |
| 2047 | 0.2741 | 675 | 185 |
| 2048 | 0.2636 | 675 | 178 |
| 2049 | 0.2534 | 675 | 171 |
| 2050 | 0.2437 | 675 | 164 |
| 2051 | 0.2343 | 675 | 158 |
| 2052 | 0.2253 | 675 | 152 |
| 2053 | 0.2166 | 675 | 146 |
| 2054 | 0.2083 | 675 | 141 |
| 2055 | 0.2003 | 675 | 135 |
| 2056 | 0.1926 | 675 | 130 |
| 2057 | 0.1852 | 675 | 125 |
| 2058 | 0.1780 | 675 | 120 |
| 2059 | 0.1712 | 675 | 116 |
| 2060 | 0.1646 | 675 | 111 |
| 2061 | 0.1583 | 675 | 107 |
| 2062 | 0.1522 | 675 | 103 |
| 2063 | 0.1463 | 675 | 99 |
| 合計 | | | 54,447 |

$$B = \sum_{t=1}^{T-1} \frac{t}{T \times (1+i)^t} + \sum_{t=T}^Y \frac{1}{(1+i)^t} \times (C1 - C2) \times A \times 0.3 \times \frac{44}{12} \times U$$

$$C1 = \frac{s \times e1}{30}$$

$$C2 = \frac{s \times e2}{30}$$

- U: 二酸化炭素に関する原単位(円/t-CO2) 6,046
出典:「二酸化炭素地中貯留技術研究開発成果報告書」(財)地球環境産業技術研究機構(平成18年3月)
- C1: 事業を実施しない場合の年間流出土砂量に含まれる炭素量(t-C/ha) ①事業対象区域 0.57
- C2: 事業を実施した場合の年間流出土砂量に含まれる炭素量(t-C/ha) ①事業対象区域 0.04
- T: 事業実施後、流出係数が安定するのに必要な年数 15
- Y: ①侵食深が30cmに達するまでの年数(To) 又は ①事業対象区域 80
②評価期間内に侵食深が30cmに達しない場合は評価期間
- A: ①事業対象区域面積(ha) 又は 44.35 ~ 44.35
②保全効果区域面積(ha)
- s: 単位面積当たりの土壌平均炭素蓄積量(t-C/ha) 85.30
出典:「日本国温室効果ガスインベントリ報告書」(2014年4月)(国立環境研究所温室効果ガスインベントリオフィス編)
- 44/12: 炭素から二酸化炭素への換算係数
- e1:: 事業を実施しない場合の侵食深(cm/年) ①事業対象区域 0.200
出典:「治山全体調査の考え方進め方」 「森林の公益的機能に関する文献要約集」 「森林水文」
- e2:: 事業を実施した場合の侵食深(cm/年) ①事業対象区域 0.013
出典:「治山全体調査の考え方進め方」 「森林の公益的機能に関する文献要約集」 「森林水文」
- 30: 土壌炭素の測定深度(cm)
- 0.3: 流出土砂排出炭素係数

| 年度 | 社会的割引率 | 事業対象区域 | | | | 現在価値化 | 効果対象面積 | 効果額 | 現在価値化 |
|------|--------|----------|--------|-----|-------|-------|--------|-----|-------|
| | | 事業対象区域面積 | 効果対象面積 | 効果額 | 現在価値化 | | | | |
| 1983 | 3.3731 | | | | | | | | |
| 1984 | 3.2434 | 44.35 | 2.96 | 10 | 32 | | | | |
| 1985 | 3.1187 | 44.35 | 5.91 | 21 | 65 | | | | |
| 1986 | 2.9987 | 44.35 | 8.87 | 31 | 93 | | | | |
| 1987 | 2.8834 | 44.35 | 11.83 | 42 | 121 | | | | |
| 1988 | 2.7725 | 44.35 | 14.78 | 52 | 144 | | | | |
| 1989 | 2.6658 | 44.35 | 17.74 | 63 | 168 | | | | |
| 1990 | 2.5633 | 44.35 | 20.70 | 73 | 187 | | | | |
| 1991 | 2.4647 | 44.35 | 23.65 | 83 | 205 | | | | |
| 1992 | 2.3699 | 44.35 | 26.61 | 94 | 223 | | | | |
| 1993 | 2.2788 | 44.35 | 29.57 | 104 | 237 | | | | |
| 1994 | 2.1911 | 44.35 | 32.52 | 115 | 252 | | | | |
| 1995 | 2.1068 | 44.35 | 35.48 | 125 | 263 | | | | |
| 1996 | 2.0258 | 44.35 | 38.44 | 135 | 273 | | | | |
| 1997 | 1.9479 | 44.35 | 41.39 | 146 | 284 | | | | |
| 1998 | 1.8730 | 44.35 | 44.35 | 156 | 292 | | | | |
| 1999 | 1.8009 | 44.35 | 44.35 | 156 | 281 | | | | |
| 2000 | 1.7317 | 44.35 | 44.35 | 156 | 270 | | | | |
| 2001 | 1.6651 | 44.35 | 44.35 | 156 | 260 | | | | |
| 2002 | 1.6010 | 44.35 | 44.35 | 156 | 250 | | | | |
| 2003 | 1.5395 | 44.35 | 44.35 | 156 | 240 | | | | |
| 2004 | 1.4802 | 44.35 | 44.35 | 156 | 231 | | | | |
| 2005 | 1.4233 | 44.35 | 44.35 | 156 | 222 | | | | |
| 2006 | 1.3686 | 44.35 | 44.35 | 156 | 214 | | | | |
| 2007 | 1.3159 | 44.35 | 44.35 | 156 | 205 | | | | |
| 2008 | 1.2653 | 44.35 | 44.35 | 156 | 197 | | | | |
| 2009 | 1.2167 | 44.35 | 44.35 | 156 | 190 | | | | |
| 2010 | 1.1699 | 44.35 | 44.35 | 156 | 183 | | | | |
| 2011 | 1.1249 | 44.35 | 44.35 | 156 | 175 | | | | |
| 2012 | 1.0816 | 44.35 | 44.35 | 156 | 169 | | | | |
| 2013 | 1.0400 | 44.35 | 44.35 | 156 | 162 | | | | |
| 2014 | 1.0000 | 44.35 | 44.35 | 156 | 156 | | | | |
| 2015 | 0.9615 | 44.35 | 44.35 | 156 | 150 | | | | |
| 2016 | 0.9246 | 44.35 | 44.35 | 156 | 144 | | | | |
| 2017 | 0.8890 | 44.35 | 44.35 | 156 | 139 | | | | |
| 2018 | 0.8548 | 44.35 | 44.35 | 156 | 133 | | | | |
| 2019 | 0.8219 | 44.35 | 44.35 | 156 | 128 | | | | |
| 2020 | 0.7903 | 44.35 | 44.35 | 156 | 123 | | | | |
| 2021 | 0.7599 | 44.35 | 44.35 | 156 | 119 | | | | |
| 2022 | 0.7307 | 44.35 | 44.35 | 156 | 114 | | | | |

| | | | | | | | | |
|------|--------|-------|-------|-----|-------|--|--|---|
| 2023 | 0.7026 | 44.35 | 44.35 | 156 | 110 | | | |
| 2024 | 0.6756 | 44.35 | 44.35 | 156 | 105 | | | |
| 2025 | 0.6496 | 44.35 | 44.35 | 156 | 101 | | | |
| 2026 | 0.6246 | 44.35 | 44.35 | 156 | 97 | | | |
| 2027 | 0.6006 | 44.35 | 44.35 | 156 | 94 | | | |
| 2028 | 0.5775 | 44.35 | 44.35 | 156 | 90 | | | |
| 2029 | 0.5553 | 44.35 | 44.35 | 156 | 87 | | | |
| 2030 | 0.5339 | 44.35 | 44.35 | 156 | 83 | | | |
| 2031 | 0.5134 | 44.35 | 44.35 | 156 | 80 | | | |
| 2032 | 0.4936 | 44.35 | 44.35 | 156 | 77 | | | |
| 2033 | 0.4746 | 44.35 | 44.35 | 156 | 74 | | | |
| 2034 | 0.4564 | 44.35 | 44.35 | 156 | 71 | | | |
| 2035 | 0.4388 | 44.35 | 44.35 | 156 | 68 | | | |
| 2036 | 0.4220 | 44.35 | 44.35 | 156 | 66 | | | |
| 2037 | 0.4057 | 44.35 | 44.35 | 156 | 63 | | | |
| 2038 | 0.3901 | 44.35 | 44.35 | 156 | 61 | | | |
| 2039 | 0.3751 | 44.35 | 44.35 | 156 | 59 | | | |
| 2040 | 0.3607 | 44.35 | 44.35 | 156 | 56 | | | |
| 2041 | 0.3468 | 44.35 | 44.35 | 156 | 54 | | | |
| 2042 | 0.3335 | 44.35 | 44.35 | 156 | 52 | | | |
| 2043 | 0.3207 | 44.35 | 44.35 | 156 | 50 | | | |
| 2044 | 0.3083 | 44.35 | 44.35 | 156 | 48 | | | |
| 2045 | 0.2965 | 44.35 | 44.35 | 156 | 46 | | | |
| 2046 | 0.2851 | 44.35 | 44.35 | 156 | 44 | | | |
| 2047 | 0.2741 | 44.35 | 44.35 | 156 | 43 | | | |
| 2048 | 0.2636 | 44.35 | 44.35 | 156 | 41 | | | |
| 2049 | 0.2534 | 44.35 | 44.35 | 156 | 40 | | | |
| 2050 | 0.2437 | 44.35 | 44.35 | 156 | 38 | | | |
| 2051 | 0.2343 | 44.35 | 44.35 | 156 | 37 | | | |
| 2052 | 0.2253 | 44.35 | 44.35 | 156 | 35 | | | |
| 2053 | 0.2166 | 44.35 | 44.35 | 156 | 34 | | | |
| 2054 | 0.2083 | 44.35 | 44.35 | 156 | 32 | | | |
| 2055 | 0.2003 | 44.35 | 44.35 | 156 | 31 | | | |
| 2056 | 0.1926 | 44.35 | 44.35 | 156 | 30 | | | |
| 2057 | 0.1852 | 44.35 | 44.35 | 156 | 29 | | | |
| 2058 | 0.1780 | 44.35 | 44.35 | 156 | 28 | | | |
| 2059 | 0.1712 | 44.35 | 44.35 | 156 | 27 | | | |
| 2060 | 0.1646 | 44.35 | 44.35 | 156 | 26 | | | |
| 2061 | 0.1583 | 44.35 | 44.35 | 156 | 25 | | | |
| 2062 | 0.1522 | 44.35 | 44.35 | 156 | 24 | | | |
| 2063 | 0.1463 | 44.35 | 44.35 | 156 | 23 | | | |
| 合計 | | | | | 9,573 | | | 0 |

| | | | | | | | | | | |
|------|--------|-----------|--------|--|--|--|--|--|--|--|
| 2043 | 0.3207 | 0.00 | 0 | | | | | | | |
| 2044 | 0.3083 | 0.00 | 0 | | | | | | | |
| 2045 | 0.2965 | 0.00 | 0 | | | | | | | |
| 2046 | 0.2851 | 0.00 | 0 | | | | | | | |
| 2047 | 0.2741 | 0.00 | 0 | | | | | | | |
| 2048 | 0.2636 | 0.00 | 0 | | | | | | | |
| 2049 | 0.2534 | 0.00 | 0 | | | | | | | |
| 2050 | 0.2437 | 0.00 | 0 | | | | | | | |
| 2051 | 0.2343 | 0.00 | 0 | | | | | | | |
| 2052 | 0.2253 | 0.00 | 0 | | | | | | | |
| 2053 | 0.2166 | 0.00 | 0 | | | | | | | |
| 2054 | 0.2083 | 0.00 | 0 | | | | | | | |
| 2055 | 0.2003 | 0.00 | 0 | | | | | | | |
| 2056 | 0.1926 | 0.00 | 0 | | | | | | | |
| 2057 | 0.1852 | 0.00 | 0 | | | | | | | |
| 2058 | 0.1780 | 0.00 | 0 | | | | | | | |
| 2059 | 0.1712 | 0.00 | 0 | | | | | | | |
| 2060 | 0.1646 | 0.00 | 0 | | | | | | | |
| 2061 | 0.1583 | 0.00 | 0 | | | | | | | |
| 2062 | 0.1522 | 0.00 | 0 | | | | | | | |
| 2063 | 0.1463 | 16,143.40 | 50,464 | | | | | | | |
| 合計 | | | | | | | | | | |

| 年度 | 社会的割引率 | 事業効果材積 | 効果額 | 合計 | |
|------|--------|--------|-----|-----|-------|
| | | | | 効果額 | 現在価値化 |
| 1983 | 3.3731 | | | | |
| 1984 | 3.2434 | | | 0 | 0 |
| 1985 | 3.1187 | | | 0 | 0 |
| 1986 | 2.9987 | | | 0 | 0 |
| 1987 | 2.8834 | | | 0 | 0 |
| 1988 | 2.7725 | | | 0 | 0 |
| 1989 | 2.6658 | | | 0 | 0 |
| 1990 | 2.5633 | | | 0 | 0 |
| 1991 | 2.4647 | | | 0 | 0 |
| 1992 | 2.3699 | | | 0 | 0 |
| 1993 | 2.2788 | | | 0 | 0 |
| 1994 | 2.1911 | | | 0 | 0 |
| 1995 | 2.1068 | | | 0 | 0 |
| 1996 | 2.0258 | | | 0 | 0 |
| 1997 | 1.9479 | | | 0 | 0 |
| 1998 | 1.8730 | | | 0 | 0 |
| 1999 | 1.8009 | | | 0 | 0 |
| 2000 | 1.7317 | | | 0 | 0 |
| 2001 | 1.6651 | | | 0 | 0 |
| 2002 | 1.6010 | | | 0 | 0 |
| 2003 | 1.5395 | | | 0 | 0 |
| 2004 | 1.4802 | | | 0 | 0 |
| 2005 | 1.4233 | | | 0 | 0 |
| 2006 | 1.3686 | | | 0 | 0 |
| 2007 | 1.3159 | | | 0 | 0 |
| 2008 | 1.2653 | | | 0 | 0 |
| 2009 | 1.2167 | | | 0 | 0 |
| 2010 | 1.1699 | | | 0 | 0 |
| 2011 | 1.1249 | | | 0 | 0 |
| 2012 | 1.0816 | | | 0 | 0 |
| 2013 | 1.0400 | | | 0 | 0 |
| 2014 | 1.0000 | | | 0 | 0 |
| 2015 | 0.9615 | | | 0 | 0 |
| 2016 | 0.9246 | | | 0 | 0 |
| 2017 | 0.8890 | | | 0 | 0 |
| 2018 | 0.8548 | | | 0 | 0 |
| 2019 | 0.8219 | | | 0 | 0 |
| 2020 | 0.7903 | | | 0 | 0 |
| 2021 | 0.7599 | | | 0 | 0 |
| 2022 | 0.7307 | | | 0 | 0 |
| 2023 | 0.7026 | | | 0 | 0 |
| 2024 | 0.6756 | | | 0 | 0 |
| 2025 | 0.6496 | | | 0 | 0 |
| 2026 | 0.6246 | | | 0 | 0 |
| 2027 | 0.6006 | | | 0 | 0 |
| 2028 | 0.5775 | | | 0 | 0 |
| 2029 | 0.5553 | | | 0 | 0 |
| 2030 | 0.5339 | | | 0 | 0 |
| 2031 | 0.5134 | | | 0 | 0 |
| 2032 | 0.4936 | | | 0 | 0 |
| 2033 | 0.4746 | | | 0 | 0 |
| 2034 | 0.4564 | | | 0 | 0 |
| 2035 | 0.4388 | | | 0 | 0 |
| 2036 | 0.4220 | | | 0 | 0 |
| 2037 | 0.4057 | | | 0 | 0 |
| 2038 | 0.3901 | | | 0 | 0 |
| 2039 | 0.3751 | | | 0 | 0 |
| 2040 | 0.3607 | | | 0 | 0 |
| 2041 | 0.3468 | | | 0 | 0 |
| 2042 | 0.3335 | | | 0 | 0 |
| 2043 | 0.3207 | | | 0 | 0 |
| 2044 | 0.3083 | | | 0 | 0 |
| 2045 | 0.2965 | | | 0 | 0 |
| 2046 | 0.2851 | | | 0 | 0 |
| 2047 | 0.2741 | | | 0 | 0 |

| | | | | | |
|------|--------|--|--|--------|-------|
| 2048 | 0.2636 | | | 0 | 0 |
| 2049 | 0.2534 | | | 0 | 0 |
| 2050 | 0.2437 | | | 0 | 0 |
| 2051 | 0.2343 | | | 0 | 0 |
| 2052 | 0.2253 | | | 0 | 0 |
| 2053 | 0.2166 | | | 0 | 0 |
| 2054 | 0.2083 | | | 0 | 0 |
| 2055 | 0.2003 | | | 0 | 0 |
| 2056 | 0.1926 | | | 0 | 0 |
| 2057 | 0.1852 | | | 0 | 0 |
| 2058 | 0.1780 | | | 0 | 0 |
| 2059 | 0.1712 | | | 0 | 0 |
| 2060 | 0.1646 | | | 0 | 0 |
| 2061 | 0.1583 | | | 0 | 0 |
| 2062 | 0.1522 | | | 0 | 0 |
| 2063 | 0.1463 | | | 50.464 | 7.383 |
| 合計 | | | | | 7.383 |