

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： 木曾川広域流域 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 7 | | × 3.3731 | | H 5 5 | 0 | × 0.3083 | 0 |
| S 5 8 | 409,835 | × 3.2434 | 1,329,259 | H 5 6 | 0 | × 0.2965 | 0 |
| S 5 9 | 102,175 | × 3.1187 | 318,653 | H 5 7 | 0 | × 0.2851 | 0 |
| S 6 0 | 79,548 | × 2.9987 | 238,541 | H 5 8 | 0 | × 0.2741 | 0 |
| S 6 1 | 59,451 | × 2.8834 | 171,421 | H 5 9 | 0 | × 0.2636 | 0 |
| S 6 2 | 42,963 | × 2.7725 | 119,115 | H 6 0 | 0 | × 0.2534 | 0 |
| S 6 3 | 41,005 | × 2.6658 | 109,311 | H 6 1 | 0 | × 0.2437 | 0 |
| H 1 | 0 | × 2.5633 | 0 | H 6 2 | 0 | × 0.2343 | 0 |
| H 2 | 17,705 | × 2.4647 | 43,638 | H 6 3 | 0 | × 0.2253 | 0 |
| H 3 | 0 | × 2.3699 | 0 | H 6 4 | 0 | × 0.2166 | 0 |
| H 4 | 16,243 | × 2.2788 | 37,015 | H 6 5 | 0 | × 0.2083 | 0 |
| H 5 | 1,967 | × 2.1911 | 4,310 | H 6 6 | 0 | × 0.2003 | 0 |
| H 6 | 47,457 | × 2.1068 | 99,982 | H 6 7 | 0 | × 0.1926 | 0 |
| H 7 | 0 | × 2.0258 | 0 | H 6 8 | 0 | × 0.1852 | 0 |
| H 8 | 70,719 | × 1.9479 | 137,754 | H 6 9 | 0 | × 0.1780 | 0 |
| H 9 | 0 | × 1.8730 | 0 | H 7 0 | 0 | × 0.1712 | 0 |
| H 1 0 | 10,059 | × 1.8009 | 18,115 | H 7 1 | 0 | × 0.1646 | 0 |
| H 1 1 | 0 | × 1.7317 | 0 | H 7 2 | 0 | × 0.1583 | 0 |
| H 1 2 | 18,275 | × 1.6651 | 30,430 | H 7 3 | 0 | × 0.1522 | 0 |
| H 1 3 | 0 | × 1.6010 | 0 | H 7 4 | 0 | × 0.1463 | 0 |
| H 1 4 | 36,085 | × 1.5395 | 55,553 | | | | |
| H 1 5 | 26,809 | × 1.4802 | 39,683 | | | | |
| H 1 6 | 0 | × 1.4233 | 0 | | | | |
| H 1 7 | 0 | × 1.3686 | 0 | | | | |
| H 1 8 | 0 | × 1.3159 | 0 | | | | |
| H 1 9 | 0 | × 1.2653 | 0 | | | | |
| H 2 0 | 51,030 | × 1.2167 | 62,088 | | | | |
| H 2 1 | 0 | × 1.1699 | 0 | | | | |
| H 2 2 | 0 | × 1.1249 | 0 | | | | |
| H 2 3 | 0 | × 1.0816 | 0 | | | | |
| H 2 4 | 0 | × 1.0400 | 0 | | | | |
| H 2 5 | 0 | × 1.0000 | 0 | | | | |
| H 2 6 | 0 | × 0.9615 | 0 | | | | |
| H 2 7 | 0 | × 0.9246 | 0 | | | | |
| H 2 8 | 0 | × 0.8890 | 0 | | | | |
| H 2 9 | 0 | × 0.8548 | 0 | | | | |
| H 3 0 | 0 | × 0.8219 | 0 | | | | |
| H 3 1 | 0 | × 0.7903 | 0 | | | | |
| H 3 2 | 0 | × 0.7599 | 0 | | | | |
| H 3 3 | 0 | × 0.7307 | 0 | | | | |
| H 3 4 | 1,399 | × 0.7026 | 983 | | | | |
| H 3 5 | 21,764 | × 0.6756 | 14,704 | | | | |
| H 3 6 | 0 | × 0.6496 | 0 | | | | |
| H 3 7 | 0 | × 0.6246 | 0 | | | | |
| H 3 8 | 0 | × 0.6006 | 0 | | | | |
| H 3 9 | 0 | × 0.5775 | 0 | | | | |
| H 4 0 | 0 | × 0.5553 | 0 | | | | |
| H 4 1 | 0 | × 0.5339 | 0 | | | | |
| H 4 2 | 0 | × 0.5134 | 0 | | | | |
| H 4 3 | 0 | × 0.4936 | 0 | | | | |
| H 4 4 | 0 | × 0.4746 | 0 | | | | |
| H 4 5 | 0 | × 0.4564 | 0 | | | | |
| H 4 6 | 0 | × 0.4388 | 0 | | | | |
| H 4 7 | 0 | × 0.4220 | 0 | | | | |
| H 4 8 | 0 | × 0.4057 | 0 | | | | |
| H 4 9 | 0 | × 0.3901 | 0 | | | | |
| H 5 0 | 7,255 | × 0.3751 | 2,721 | | | | |
| H 5 1 | 0 | × 0.3607 | 0 | | | | |
| H 5 2 | 0 | × 0.3468 | 0 | | | | |
| H 5 3 | 0 | × 0.3335 | 0 | | | | |
| H 5 4 | 0 | × 0.3207 | 0 | | | | |
| | | | | 合 計 | | | 2,833,276 |
| | | | | C = | | | 2,833,276 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/㎡/sec) 3,520,000
出典:「ダム年鑑2012」
- 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) 70.08
出典:気象統計情報(気象庁)
- A: 事業対象区域面積(ha) 226.55 ~ 226.55
- 360: 単位合わせのための調整値
- Y: 評価期間 80

| 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 |
|------|--------|----------|--------|--------|--------|
| 1982 | 3.3731 | | | | |
| 1983 | 3.2434 | 226.55 | 15.10 | 1,035 | 3,357 |
| 1984 | 3.1187 | 226.55 | 30.21 | 2,070 | 6,456 |
| 1985 | 2.9987 | 226.55 | 45.31 | 3,105 | 9,311 |
| 1986 | 2.8834 | 226.55 | 60.41 | 4,140 | 11,937 |
| 1987 | 2.7725 | 226.55 | 75.52 | 5,175 | 14,348 |
| 1988 | 2.6658 | 226.55 | 90.62 | 6,210 | 16,555 |
| 1989 | 2.5633 | 226.55 | 105.72 | 7,244 | 18,569 |
| 1990 | 2.4647 | 226.55 | 120.83 | 8,279 | 20,405 |
| 1991 | 2.3699 | 226.55 | 135.93 | 9,314 | 22,073 |
| 1992 | 2.2788 | 226.55 | 151.03 | 10,349 | 23,583 |
| 1993 | 2.1911 | 226.55 | 166.14 | 11,384 | 24,943 |
| 1994 | 2.1068 | 226.55 | 181.24 | 12,419 | 26,164 |
| 1995 | 2.0258 | 226.55 | 196.34 | 13,454 | 27,255 |
| 1996 | 1.9479 | 226.55 | 211.45 | 14,489 | 28,223 |
| 1997 | 1.8730 | 226.55 | 226.55 | 15,524 | 29,076 |
| 1998 | 1.8009 | 226.55 | 226.55 | 15,524 | 27,957 |
| 1999 | 1.7317 | 226.55 | 226.55 | 15,524 | 26,883 |
| 2000 | 1.6651 | 226.55 | 226.55 | 15,524 | 25,849 |
| 2001 | 1.6010 | 226.55 | 226.55 | 15,524 | 24,854 |
| 2002 | 1.5395 | 226.55 | 226.55 | 15,524 | 23,899 |
| 2003 | 1.4802 | 226.55 | 226.55 | 15,524 | 22,979 |
| 2004 | 1.4233 | 226.55 | 226.55 | 15,524 | 22,095 |
| 2005 | 1.3686 | 226.55 | 226.55 | 15,524 | 21,246 |
| 2006 | 1.3159 | 226.55 | 226.55 | 15,524 | 20,428 |
| 2007 | 1.2653 | 226.55 | 226.55 | 15,524 | 19,643 |
| 2008 | 1.2167 | 226.55 | 226.55 | 15,524 | 18,888 |
| 2009 | 1.1699 | 226.55 | 226.55 | 15,524 | 18,162 |
| 2010 | 1.1249 | 226.55 | 226.55 | 15,524 | 17,463 |
| 2011 | 1.0816 | 226.55 | 226.55 | 15,524 | 16,791 |
| 2012 | 1.0400 | 226.55 | 226.55 | 15,524 | 16,145 |
| 2013 | 1.0000 | 226.55 | 226.55 | 15,524 | 15,524 |
| 2014 | 0.9615 | 226.55 | 226.55 | 15,524 | 14,926 |
| 2015 | 0.9246 | 226.55 | 226.55 | 15,524 | 14,353 |
| 2016 | 0.8890 | 226.55 | 226.55 | 15,524 | 13,801 |
| 2017 | 0.8548 | 226.55 | 226.55 | 15,524 | 13,270 |
| 2018 | 0.8219 | 226.55 | 226.55 | 15,524 | 12,759 |
| 2019 | 0.7903 | 226.55 | 226.55 | 15,524 | 12,269 |
| 2020 | 0.7599 | 226.55 | 226.55 | 15,524 | 11,797 |
| 2021 | 0.7307 | 226.55 | 226.55 | 15,524 | 11,343 |
| 2022 | 0.7026 | 226.55 | 226.55 | 15,524 | 10,907 |
| 2023 | 0.6756 | 226.55 | 226.55 | 15,524 | 10,488 |
| 2024 | 0.6496 | 226.55 | 226.55 | 15,524 | 10,084 |
| 2025 | 0.6246 | 226.55 | 226.55 | 15,524 | 9,696 |
| 2026 | 0.6006 | 226.55 | 226.55 | 15,524 | 9,324 |
| 2027 | 0.5775 | 226.55 | 226.55 | 15,524 | 8,965 |
| 2028 | 0.5553 | 226.55 | 226.55 | 15,524 | 8,620 |
| 2029 | 0.5339 | 226.55 | 226.55 | 15,524 | 8,288 |
| 2030 | 0.5134 | 226.55 | 226.55 | 15,524 | 7,970 |
| 2031 | 0.4936 | 226.55 | 226.55 | 15,524 | 7,663 |
| 2032 | 0.4746 | 226.55 | 226.55 | 15,524 | 7,368 |
| 2033 | 0.4564 | 226.55 | 226.55 | 15,524 | 7,085 |
| 2034 | 0.4388 | 226.55 | 226.55 | 15,524 | 6,812 |
| 2035 | 0.4220 | 226.55 | 226.55 | 15,524 | 6,551 |
| 2036 | 0.4057 | 226.55 | 226.55 | 15,524 | 6,298 |
| 2037 | 0.3901 | 226.55 | 226.55 | 15,524 | 6,056 |
| 2038 | 0.3751 | 226.55 | 226.55 | 15,524 | 5,823 |
| 2039 | 0.3607 | 226.55 | 226.55 | 15,524 | 5,600 |
| 2040 | 0.3468 | 226.55 | 226.55 | 15,524 | 5,384 |
| 2041 | 0.3335 | 226.55 | 226.55 | 15,524 | 5,177 |
| 2042 | 0.3207 | 226.55 | 226.55 | 15,524 | 4,979 |
| 2043 | 0.3083 | 226.55 | 226.55 | 15,524 | 4,786 |
| 2044 | 0.2965 | 226.55 | 226.55 | 15,524 | 4,603 |

| | | | | | |
|------|--------|--------|--------|--------|---------|
| 2045 | 0.2851 | 226.55 | 226.55 | 15,524 | 4,426 |
| 2046 | 0.2741 | 226.55 | 226.55 | 15,524 | 4,255 |
| 2047 | 0.2636 | 226.55 | 226.55 | 15,524 | 4,092 |
| 2048 | 0.2534 | 226.55 | 226.55 | 15,524 | 3,934 |
| 2049 | 0.2437 | 226.55 | 226.55 | 15,524 | 3,783 |
| 2050 | 0.2343 | 226.55 | 226.55 | 15,524 | 3,637 |
| 2051 | 0.2253 | 226.55 | 226.55 | 15,524 | 3,498 |
| 2052 | 0.2166 | 226.55 | 226.55 | 15,524 | 3,362 |
| 2053 | 0.2083 | 226.55 | 226.55 | 15,524 | 3,234 |
| 2054 | 0.2003 | 226.55 | 226.55 | 15,524 | 3,109 |
| 2055 | 0.1926 | 226.55 | 226.55 | 15,524 | 2,990 |
| 2056 | 0.1852 | 226.55 | 226.55 | 15,524 | 2,875 |
| 2057 | 0.1780 | 226.55 | 226.55 | 15,524 | 2,763 |
| 2058 | 0.1712 | 226.55 | 226.55 | 15,524 | 2,658 |
| 2059 | 0.1646 | 226.55 | 226.55 | 15,524 | 2,555 |
| 2060 | 0.1583 | 226.55 | 226.55 | 15,524 | 2,457 |
| 2061 | 0.1522 | 226.55 | 226.55 | 15,524 | 2,363 |
| 2062 | 0.1463 | 226.55 | 226.55 | 15,524 | 2,271 |
| 合計 | | | | | 952,368 |

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

- A: 事業対象区域面積 (ha) 226.55 ~ 226.55
- P: 年間平均降雨量 (mm/年) 1,798
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2012」
- 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

| 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 |
|-------|--------|----------|--------|-------|--------|
| 1,982 | 3.3731 | | | | |
| 1,983 | 3.2434 | 226.55 | 15.10 | 447 | 1,450 |
| 1,984 | 3.1187 | 226.55 | 30.21 | 894 | 2,788 |
| 1,985 | 2.9987 | 226.55 | 45.31 | 1,341 | 4,021 |
| 1,986 | 2.8834 | 226.55 | 60.41 | 1,788 | 5,156 |
| 1,987 | 2.7725 | 226.55 | 75.52 | 2,235 | 6,197 |
| 1,988 | 2.6658 | 226.55 | 90.62 | 2,682 | 7,150 |
| 1,989 | 2.5633 | 226.55 | 105.72 | 3,129 | 8,021 |
| 1,990 | 2.4647 | 226.55 | 120.83 | 3,576 | 8,814 |
| 1,991 | 2.3699 | 226.55 | 135.93 | 4,023 | 9,534 |
| 1,992 | 2.2788 | 226.55 | 151.03 | 4,470 | 10,186 |
| 1,993 | 2.1911 | 226.55 | 166.14 | 4,917 | 10,774 |
| 1,994 | 2.1068 | 226.55 | 181.24 | 5,364 | 11,301 |
| 1,995 | 2.0258 | 226.55 | 196.34 | 5,811 | 11,772 |
| 1,996 | 1.9479 | 226.55 | 211.45 | 6,258 | 12,190 |
| 1,997 | 1.8730 | 226.55 | 226.55 | 6,705 | 12,558 |
| 1,998 | 1.8009 | 226.55 | 226.55 | 6,705 | 12,075 |
| 1,999 | 1.7317 | 226.55 | 226.55 | 6,705 | 11,611 |
| 2,000 | 1.6651 | 226.55 | 226.55 | 6,705 | 11,164 |
| 2,001 | 1.6010 | 226.55 | 226.55 | 6,705 | 10,735 |
| 2,002 | 1.5395 | 226.55 | 226.55 | 6,705 | 10,322 |
| 2,003 | 1.4802 | 226.55 | 226.55 | 6,705 | 9,925 |
| 2,004 | 1.4233 | 226.55 | 226.55 | 6,705 | 9,543 |
| 2,005 | 1.3686 | 226.55 | 226.55 | 6,705 | 9,176 |
| 2,006 | 1.3159 | 226.55 | 226.55 | 6,705 | 8,823 |
| 2,007 | 1.2653 | 226.55 | 226.55 | 6,705 | 8,484 |
| 2,008 | 1.2167 | 226.55 | 226.55 | 6,705 | 8,158 |
| 2,009 | 1.1699 | 226.55 | 226.55 | 6,705 | 7,844 |
| 2,010 | 1.1249 | 226.55 | 226.55 | 6,705 | 7,542 |
| 2,011 | 1.0816 | 226.55 | 226.55 | 6,705 | 7,252 |
| 2,012 | 1.0400 | 226.55 | 226.55 | 6,705 | 6,973 |
| 2,013 | 1.0000 | 226.55 | 226.55 | 6,705 | 6,705 |
| 2,014 | 0.9615 | 226.55 | 226.55 | 6,705 | 6,447 |
| 2,015 | 0.9246 | 226.55 | 226.55 | 6,705 | 6,199 |
| 2,016 | 0.8890 | 226.55 | 226.55 | 6,705 | 5,961 |
| 2,017 | 0.8548 | 226.55 | 226.55 | 6,705 | 5,731 |
| 2,018 | 0.8219 | 226.55 | 226.55 | 6,705 | 5,511 |
| 2,019 | 0.7903 | 226.55 | 226.55 | 6,705 | 5,299 |
| 2,020 | 0.7599 | 226.55 | 226.55 | 6,705 | 5,095 |
| 2,021 | 0.7307 | 226.55 | 226.55 | 6,705 | 4,899 |
| 2,022 | 0.7026 | 226.55 | 226.55 | 6,705 | 4,711 |
| 2,023 | 0.6756 | 226.55 | 226.55 | 6,705 | 4,530 |
| 2,024 | 0.6496 | 226.55 | 226.55 | 6,705 | 4,356 |
| 2,025 | 0.6246 | 226.55 | 226.55 | 6,705 | 4,188 |
| 2,026 | 0.6006 | 226.55 | 226.55 | 6,705 | 4,027 |
| 2,027 | 0.5775 | 226.55 | 226.55 | 6,705 | 3,872 |
| 2,028 | 0.5553 | 226.55 | 226.55 | 6,705 | 3,723 |
| 2,029 | 0.5339 | 226.55 | 226.55 | 6,705 | 3,580 |
| 2,030 | 0.5134 | 226.55 | 226.55 | 6,705 | 3,442 |
| 2,031 | 0.4936 | 226.55 | 226.55 | 6,705 | 3,310 |
| 2,032 | 0.4746 | 226.55 | 226.55 | 6,705 | 3,182 |
| 2,033 | 0.4564 | 226.55 | 226.55 | 6,705 | 3,060 |
| 2,034 | 0.4388 | 226.55 | 226.55 | 6,705 | 2,942 |
| 2,035 | 0.4220 | 226.55 | 226.55 | 6,705 | 2,830 |
| 2,036 | 0.4057 | 226.55 | 226.55 | 6,705 | 2,720 |
| 2,037 | 0.3901 | 226.55 | 226.55 | 6,705 | 2,616 |
| 2,038 | 0.3751 | 226.55 | 226.55 | 6,705 | 2,515 |
| 2,039 | 0.3607 | 226.55 | 226.55 | 6,705 | 2,418 |
| 2,040 | 0.3468 | 226.55 | 226.55 | 6,705 | 2,325 |

| | | | | | |
|-------|--------|--------|--------|-------|---------|
| 2.041 | 0.3335 | 226.55 | 226.55 | 6,705 | 2,236 |
| 2.042 | 0.3207 | 226.55 | 226.55 | 6,705 | 2,150 |
| 2.043 | 0.3083 | 226.55 | 226.55 | 6,705 | 2,067 |
| 2.044 | 0.2965 | 226.55 | 226.55 | 6,705 | 1,988 |
| 2.045 | 0.2851 | 226.55 | 226.55 | 6,705 | 1,912 |
| 2.046 | 0.2741 | 226.55 | 226.55 | 6,705 | 1,838 |
| 2.047 | 0.2636 | 226.55 | 226.55 | 6,705 | 1,767 |
| 2.048 | 0.2534 | 226.55 | 226.55 | 6,705 | 1,699 |
| 2.049 | 0.2437 | 226.55 | 226.55 | 6,705 | 1,634 |
| 2.050 | 0.2343 | 226.55 | 226.55 | 6,705 | 1,571 |
| 2.051 | 0.2253 | 226.55 | 226.55 | 6,705 | 1,511 |
| 2.052 | 0.2166 | 226.55 | 226.55 | 6,705 | 1,452 |
| 2.053 | 0.2083 | 226.55 | 226.55 | 6,705 | 1,397 |
| 2.054 | 0.2003 | 226.55 | 226.55 | 6,705 | 1,343 |
| 2.055 | 0.1926 | 226.55 | 226.55 | 6,705 | 1,291 |
| 2.056 | 0.1852 | 226.55 | 226.55 | 6,705 | 1,242 |
| 2.057 | 0.1780 | 226.55 | 226.55 | 6,705 | 1,193 |
| 2.058 | 0.1712 | 226.55 | 226.55 | 6,705 | 1,148 |
| 2.059 | 0.1646 | 226.55 | 226.55 | 6,705 | 1,104 |
| 2.060 | 0.1583 | 226.55 | 226.55 | 6,705 | 1,061 |
| 2.061 | 0.1522 | 226.55 | 226.55 | 6,705 | 1,021 |
| 2.062 | 0.1463 | 226.55 | 226.55 | 6,705 | 981 |
| 合計 | | | | | 411,339 |

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

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

- Qx: 全貯留量のうち生活用水使用相当量 22.00 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 304.72 億
- A: 事業対象区域面積(ha) 226.55 ~ 226.55
- P: 年間平均降雨量(mm/年) 1,798
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給水原価(円/m3) 110.18
出典:「地方公営企業年鑑(平成23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) 71.40
- Y: 評価期間 80
- 10: 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 | 事業効果面積 | 効果額 | 現在価値化 |
|------|--------|----------|--------|--------|--------|
| 1982 | 3.3731 | | | | |
| 1983 | 3.2434 | 226.55 | 15.10 | 970 | 3,146 |
| 1984 | 3.1187 | 226.55 | 30.21 | 1,939 | 6,047 |
| 1985 | 2.9987 | 226.55 | 45.31 | 2,909 | 8,723 |
| 1986 | 2.8834 | 226.55 | 60.41 | 3,879 | 11,185 |
| 1987 | 2.7725 | 226.55 | 75.52 | 4,849 | 13,444 |
| 1988 | 2.6658 | 226.55 | 90.62 | 5,818 | 15,510 |
| 1989 | 2.5633 | 226.55 | 105.72 | 6,788 | 17,400 |
| 1990 | 2.4647 | 226.55 | 120.83 | 7,758 | 19,121 |
| 1991 | 2.3699 | 226.55 | 135.93 | 8,727 | 20,682 |
| 1992 | 2.2788 | 226.55 | 151.03 | 9,697 | 22,098 |
| 1993 | 2.1911 | 226.55 | 166.14 | 10,667 | 23,372 |
| 1994 | 2.1068 | 226.55 | 181.24 | 11,637 | 24,517 |
| 1995 | 2.0258 | 226.55 | 196.34 | 12,606 | 25,537 |
| 1996 | 1.9479 | 226.55 | 211.45 | 13,576 | 26,445 |
| 1997 | 1.8730 | 226.55 | 226.55 | 14,546 | 27,245 |
| 1998 | 1.8009 | 226.55 | 226.55 | 14,546 | 26,196 |
| 1999 | 1.7317 | 226.55 | 226.55 | 14,546 | 25,189 |
| 2000 | 1.6651 | 226.55 | 226.55 | 14,546 | 24,221 |
| 2001 | 1.6010 | 226.55 | 226.55 | 14,546 | 23,288 |
| 2002 | 1.5395 | 226.55 | 226.55 | 14,546 | 22,394 |
| 2003 | 1.4802 | 226.55 | 226.55 | 14,546 | 21,531 |
| 2004 | 1.4233 | 226.55 | 226.55 | 14,546 | 20,703 |
| 2005 | 1.3686 | 226.55 | 226.55 | 14,546 | 19,908 |
| 2006 | 1.3159 | 226.55 | 226.55 | 14,546 | 19,141 |
| 2007 | 1.2653 | 226.55 | 226.55 | 14,546 | 18,405 |
| 2008 | 1.2167 | 226.55 | 226.55 | 14,546 | 17,698 |
| 2009 | 1.1699 | 226.55 | 226.55 | 14,546 | 17,017 |
| 2010 | 1.1249 | 226.55 | 226.55 | 14,546 | 16,363 |
| 2011 | 1.0816 | 226.55 | 226.55 | 14,546 | 15,733 |
| 2012 | 1.0400 | 226.55 | 226.55 | 14,546 | 15,128 |
| 2013 | 1.0000 | 226.55 | 226.55 | 14,546 | 14,546 |
| 2014 | 0.9615 | 226.55 | 226.55 | 14,546 | 13,986 |
| 2015 | 0.9246 | 226.55 | 226.55 | 14,546 | 13,449 |
| 2016 | 0.8890 | 226.55 | 226.55 | 14,546 | 12,931 |
| 2017 | 0.8548 | 226.55 | 226.55 | 14,546 | 12,434 |
| 2018 | 0.8219 | 226.55 | 226.55 | 14,546 | 11,955 |
| 2019 | 0.7903 | 226.55 | 226.55 | 14,546 | 11,496 |
| 2020 | 0.7599 | 226.55 | 226.55 | 14,546 | 11,054 |
| 2021 | 0.7307 | 226.55 | 226.55 | 14,546 | 10,629 |
| 2022 | 0.7026 | 226.55 | 226.55 | 14,546 | 10,220 |
| 2023 | 0.6756 | 226.55 | 226.55 | 14,546 | 9,827 |
| 2024 | 0.6496 | 226.55 | 226.55 | 14,546 | 9,449 |
| 2025 | 0.6246 | 226.55 | 226.55 | 14,546 | 9,085 |
| 2026 | 0.6006 | 226.55 | 226.55 | 14,546 | 8,736 |
| 2027 | 0.5775 | 226.55 | 226.55 | 14,546 | 8,400 |
| 2028 | 0.5553 | 226.55 | 226.55 | 14,546 | 8,077 |
| 2029 | 0.5339 | 226.55 | 226.55 | 14,546 | 7,766 |
| 2030 | 0.5134 | 226.55 | 226.55 | 14,546 | 7,468 |
| 2031 | 0.4936 | 226.55 | 226.55 | 14,546 | 7,180 |
| 2032 | 0.4746 | 226.55 | 226.55 | 14,546 | 6,904 |

| | | | | | |
|------|--------|--------|--------|--------|---------|
| 2033 | 0.4564 | 226.55 | 226.55 | 14,546 | 6,639 |
| 2034 | 0.4388 | 226.55 | 226.55 | 14,546 | 6,383 |
| 2035 | 0.4220 | 226.55 | 226.55 | 14,546 | 6,138 |
| 2036 | 0.4057 | 226.55 | 226.55 | 14,546 | 5,901 |
| 2037 | 0.3901 | 226.55 | 226.55 | 14,546 | 5,674 |
| 2038 | 0.3751 | 226.55 | 226.55 | 14,546 | 5,456 |
| 2039 | 0.3607 | 226.55 | 226.55 | 14,546 | 5,247 |
| 2040 | 0.3468 | 226.55 | 226.55 | 14,546 | 5,045 |
| 2041 | 0.3335 | 226.55 | 226.55 | 14,546 | 4,851 |
| 2042 | 0.3207 | 226.55 | 226.55 | 14,546 | 4,665 |
| 2043 | 0.3083 | 226.55 | 226.55 | 14,546 | 4,485 |
| 2044 | 0.2965 | 226.55 | 226.55 | 14,546 | 4,313 |
| 2045 | 0.2851 | 226.55 | 226.55 | 14,546 | 4,147 |
| 2046 | 0.2741 | 226.55 | 226.55 | 14,546 | 3,987 |
| 2047 | 0.2636 | 226.55 | 226.55 | 14,546 | 3,834 |
| 2048 | 0.2534 | 226.55 | 226.55 | 14,546 | 3,686 |
| 2049 | 0.2437 | 226.55 | 226.55 | 14,546 | 3,545 |
| 2050 | 0.2343 | 226.55 | 226.55 | 14,546 | 3,408 |
| 2051 | 0.2253 | 226.55 | 226.55 | 14,546 | 3,277 |
| 2052 | 0.2166 | 226.55 | 226.55 | 14,546 | 3,151 |
| 2053 | 0.2083 | 226.55 | 226.55 | 14,546 | 3,030 |
| 2054 | 0.2003 | 226.55 | 226.55 | 14,546 | 2,914 |
| 2055 | 0.1926 | 226.55 | 226.55 | 14,546 | 2,802 |
| 2056 | 0.1852 | 226.55 | 226.55 | 14,546 | 2,694 |
| 2057 | 0.1780 | 226.55 | 226.55 | 14,546 | 2,589 |
| 2058 | 0.1712 | 226.55 | 226.55 | 14,546 | 2,490 |
| 2059 | 0.1646 | 226.55 | 226.55 | 14,546 | 2,394 |
| 2060 | 0.1583 | 226.55 | 226.55 | 14,546 | 2,303 |
| 2061 | 0.1522 | 226.55 | 226.55 | 14,546 | 2,214 |
| 2062 | 0.1463 | 226.55 | 226.55 | 14,546 | 2,128 |
| 合計 | | | | | 892,369 |

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

- 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」
 荒廢地等
- 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) 226.55 ~ 226.55
- 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

| 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 |
|------|--------|----------|--------|--------|--------|
| 1982 | 3.3731 | | | | |
| 1983 | 3.2434 | 226.55 | 15.10 | 1,582 | 5,131 |
| 1984 | 3.1187 | 226.55 | 30.21 | 3,163 | 9,864 |
| 1985 | 2.9987 | 226.55 | 45.31 | 4,745 | 14,229 |
| 1986 | 2.8834 | 226.55 | 60.41 | 6,326 | 18,240 |
| 1987 | 2.7725 | 226.55 | 75.52 | 7,908 | 21,925 |
| 1988 | 2.6658 | 226.55 | 90.62 | 9,490 | 25,298 |
| 1989 | 2.5633 | 226.55 | 105.72 | 11,071 | 28,378 |
| 1990 | 2.4647 | 226.55 | 120.83 | 12,653 | 31,186 |
| 1991 | 2.3699 | 226.55 | 135.93 | 14,235 | 33,736 |
| 1992 | 2.2788 | 226.55 | 151.03 | 15,816 | 36,042 |
| 1993 | 2.1911 | 226.55 | 166.14 | 17,398 | 38,121 |
| 1994 | 2.1068 | 226.55 | 181.24 | 18,979 | 39,985 |
| 1995 | 2.0258 | 226.55 | 196.34 | 20,561 | 41,652 |
| 1996 | 1.9479 | 226.55 | 211.45 | 22,143 | 43,132 |
| 1997 | 1.8730 | 226.55 | 226.55 | 23,724 | 44,435 |
| 1998 | 1.8009 | 226.55 | 226.55 | 23,724 | 42,725 |
| 1999 | 1.7317 | 226.55 | 226.55 | 23,724 | 41,083 |
| 2000 | 1.6651 | 226.55 | 226.55 | 23,724 | 39,503 |
| 2001 | 1.6010 | 226.55 | 226.55 | 23,724 | 37,982 |
| 2002 | 1.5395 | 226.55 | 226.55 | 23,724 | 36,523 |
| 2003 | 1.4802 | 226.55 | 226.55 | 23,724 | 35,116 |
| 2004 | 1.4233 | 226.55 | 226.55 | 23,724 | 33,766 |
| 2005 | 1.3686 | 226.55 | 226.55 | 23,724 | 32,469 |
| 2006 | 1.3159 | 226.55 | 226.55 | 23,724 | 31,218 |
| 2007 | 1.2653 | 226.55 | 226.55 | 23,724 | 30,018 |
| 2008 | 1.2167 | 226.55 | 226.55 | 23,724 | 28,865 |
| 2009 | 1.1699 | 226.55 | 226.55 | 23,724 | 27,755 |
| 2010 | 1.1249 | 226.55 | 226.55 | 23,724 | 26,687 |
| 2011 | 1.0816 | 226.55 | 226.55 | 23,724 | 25,660 |
| 2012 | 1.0400 | 226.55 | 226.55 | 23,724 | 24,673 |
| 2013 | 1.0000 | 226.55 | 226.55 | 23,724 | 23,724 |
| 2014 | 0.9615 | 226.55 | 226.55 | 23,724 | 22,811 |
| 2015 | 0.9246 | 226.55 | 226.55 | 23,724 | 21,935 |
| 2016 | 0.8890 | 226.55 | 226.55 | 23,724 | 21,091 |
| 2017 | 0.8548 | 226.55 | 226.55 | 23,724 | 20,279 |
| 2018 | 0.8219 | 226.55 | 226.55 | 23,724 | 19,499 |
| 2019 | 0.7903 | 226.55 | 226.55 | 23,724 | 18,749 |
| 2020 | 0.7599 | 226.55 | 226.55 | 23,724 | 18,028 |
| 2021 | 0.7307 | 226.55 | 226.55 | 23,724 | 17,335 |
| 2022 | 0.7026 | 226.55 | 226.55 | 23,724 | 16,668 |
| 2023 | 0.6756 | 226.55 | 226.55 | 23,724 | 16,028 |
| 2024 | 0.6496 | 226.55 | 226.55 | 23,724 | 15,411 |
| 2025 | 0.6246 | 226.55 | 226.55 | 23,724 | 14,818 |
| 2026 | 0.6006 | 226.55 | 226.55 | 23,724 | 14,249 |
| 2027 | 0.5775 | 226.55 | 226.55 | 23,724 | 13,701 |
| 2028 | 0.5553 | 226.55 | 226.55 | 23,724 | 13,174 |
| 2029 | 0.5339 | 226.55 | 226.55 | 23,724 | 12,666 |
| 2030 | 0.5134 | 226.55 | 226.55 | 23,724 | 12,180 |
| 2031 | 0.4936 | 226.55 | 226.55 | 23,724 | 11,710 |
| 2032 | 0.4746 | 226.55 | 226.55 | 23,724 | 11,259 |
| 2033 | 0.4564 | 226.55 | 226.55 | 23,724 | 10,828 |
| 2034 | 0.4388 | 226.55 | 226.55 | 23,724 | 10,410 |
| 2035 | 0.4220 | 226.55 | 226.55 | 23,724 | 10,012 |
| 2036 | 0.4057 | 226.55 | 226.55 | 23,724 | 9,625 |
| 2037 | 0.3901 | 226.55 | 226.55 | 23,724 | 9,255 |
| 2038 | 0.3751 | 226.55 | 226.55 | 23,724 | 8,899 |
| 2039 | 0.3607 | 226.55 | 226.55 | 23,724 | 8,557 |
| 2040 | 0.3468 | 226.55 | 226.55 | 23,724 | 8,227 |
| 2041 | 0.3335 | 226.55 | 226.55 | 23,724 | 7,912 |
| 2042 | 0.3207 | 226.55 | 226.55 | 23,724 | 7,608 |
| 2043 | 0.3083 | 226.55 | 226.55 | 23,724 | 7,314 |
| 2044 | 0.2965 | 226.55 | 226.55 | 23,724 | 7,034 |
| 2045 | 0.2851 | 226.55 | 226.55 | 23,724 | 6,764 |
| 2046 | 0.2741 | 226.55 | 226.55 | 23,724 | 6,503 |
| 2047 | 0.2636 | 226.55 | 226.55 | 23,724 | 6,254 |
| 2048 | 0.2534 | 226.55 | 226.55 | 23,724 | 6,012 |

| | | | | | |
|------|--------|--------|--------|--------|-----------|
| 2049 | 0.2437 | 226.55 | 226.55 | 23,724 | 5,782 |
| 2050 | 0.2343 | 226.55 | 226.55 | 23,724 | 5,559 |
| 2051 | 0.2253 | 226.55 | 226.55 | 23,724 | 5,345 |
| 2052 | 0.2166 | 226.55 | 226.55 | 23,724 | 5,139 |
| 2053 | 0.2083 | 226.55 | 226.55 | 23,724 | 4,942 |
| 2054 | 0.2003 | 226.55 | 226.55 | 23,724 | 4,752 |
| 2055 | 0.1926 | 226.55 | 226.55 | 23,724 | 4,569 |
| 2056 | 0.1852 | 226.55 | 226.55 | 23,724 | 4,394 |
| 2057 | 0.1780 | 226.55 | 226.55 | 23,724 | 4,223 |
| 2058 | 0.1712 | 226.55 | 226.55 | 23,724 | 4,062 |
| 2059 | 0.1646 | 226.55 | 226.55 | 23,724 | 3,905 |
| 2060 | 0.1583 | 226.55 | 226.55 | 23,724 | 3,756 |
| 2061 | 0.1522 | 226.55 | 226.55 | 23,724 | 3,611 |
| 2062 | 0.1463 | 226.55 | 226.55 | 23,724 | 3,471 |
| 合計 | | | | | 1,455,436 |

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

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

- 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 ~ 329.16
- A: 事業対象区域面積(ha) 226.55 ~ 226.55
- R: 流域内崩壊率 0.0179
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 0.8117
出典:気象統計情報(気象庁)
- H: 平均崩壊深(m) 1.0
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 |
|------|--------|----------|--------|-------|-------|
| 1982 | 3.3731 | | | | |
| 1983 | 3.2434 | 226.55 | 0.00 | 0 | 0 |
| 1984 | 3.1187 | 226.55 | 0.00 | 0 | 0 |
| 1985 | 2.9987 | 226.55 | 0.00 | 0 | 0 |
| 1986 | 2.8834 | 226.55 | 0.00 | 0 | 0 |
| 1987 | 2.7725 | 226.55 | 0.00 | 0 | 0 |
| 1988 | 2.6658 | 226.55 | 0.00 | 0 | 0 |
| 1989 | 2.5633 | 226.55 | 0.00 | 0 | 0 |
| 1990 | 2.4647 | 226.55 | 0.00 | 0 | 0 |
| 1991 | 2.3699 | 226.55 | 0.00 | 0 | 0 |
| 1992 | 2.2788 | 226.55 | 0.00 | 0 | 0 |
| 1993 | 2.1911 | 226.55 | 329.16 | 1,843 | 4,038 |
| 1994 | 2.1068 | 226.55 | 329.16 | 1,843 | 3,883 |
| 1995 | 2.0258 | 226.55 | 329.16 | 1,843 | 3,734 |
| 1996 | 1.9479 | 226.55 | 329.16 | 1,843 | 3,590 |
| 1997 | 1.8730 | 226.55 | 329.16 | 1,843 | 3,452 |
| 1998 | 1.8009 | 226.55 | 329.16 | 1,843 | 3,319 |
| 1999 | 1.7317 | 226.55 | 329.16 | 1,843 | 3,192 |
| 2000 | 1.6651 | 226.55 | 329.16 | 1,843 | 3,069 |
| 2001 | 1.6010 | 226.55 | 329.16 | 1,843 | 2,951 |
| 2002 | 1.5395 | 226.55 | 329.16 | 1,843 | 2,837 |
| 2003 | 1.4802 | 226.55 | 329.16 | 1,843 | 2,728 |
| 2004 | 1.4233 | 226.55 | 329.16 | 1,843 | 2,623 |
| 2005 | 1.3686 | 226.55 | 329.16 | 1,843 | 2,522 |
| 2006 | 1.3159 | 226.55 | 329.16 | 1,843 | 2,425 |
| 2007 | 1.2653 | 226.55 | 329.16 | 1,843 | 2,332 |
| 2008 | 1.2167 | 226.55 | 329.16 | 1,843 | 2,242 |
| 2009 | 1.1699 | 226.55 | 329.16 | 1,843 | 2,156 |
| 2010 | 1.1249 | 226.55 | 329.16 | 1,843 | 2,073 |
| 2011 | 1.0816 | 226.55 | 329.16 | 1,843 | 1,993 |
| 2012 | 1.0400 | 226.55 | 329.16 | 1,843 | 1,917 |
| 2013 | 1.0000 | 226.55 | 329.16 | 1,843 | 1,843 |
| 2014 | 0.9615 | 226.55 | 329.16 | 1,843 | 1,772 |
| 2015 | 0.9246 | 226.55 | 329.16 | 1,843 | 1,704 |
| 2016 | 0.8890 | 226.55 | 329.16 | 1,843 | 1,638 |
| 2017 | 0.8548 | 226.55 | 329.16 | 1,843 | 1,575 |
| 2018 | 0.8219 | 226.55 | 329.16 | 1,843 | 1,515 |
| 2019 | 0.7903 | 226.55 | 329.16 | 1,843 | 1,457 |
| 2020 | 0.7599 | 226.55 | 329.16 | 1,843 | 1,400 |
| 2021 | 0.7307 | 226.55 | 329.16 | 1,843 | 1,347 |
| 2022 | 0.7026 | 226.55 | 329.16 | 1,843 | 1,295 |
| 2023 | 0.6756 | 226.55 | 329.16 | 1,843 | 1,245 |
| 2024 | 0.6496 | 226.55 | 329.16 | 1,843 | 1,197 |
| 2025 | 0.6246 | 226.55 | 329.16 | 1,843 | 1,151 |
| 2026 | 0.6006 | 226.55 | 329.16 | 1,843 | 1,107 |
| 2027 | 0.5775 | 226.55 | 329.16 | 1,843 | 1,064 |
| 2028 | 0.5553 | 226.55 | 329.16 | 1,843 | 1,023 |
| 2029 | 0.5339 | 226.55 | 329.16 | 1,843 | 984 |
| 2030 | 0.5134 | 226.55 | 329.16 | 1,843 | 946 |
| 2031 | 0.4936 | 226.55 | 329.16 | 1,843 | 910 |
| 2032 | 0.4746 | 226.55 | 329.16 | 1,843 | 875 |
| 2033 | 0.4564 | 226.55 | 329.16 | 1,843 | 841 |
| 2034 | 0.4388 | 226.55 | 329.16 | 1,843 | 809 |
| 2035 | 0.4220 | 226.55 | 329.16 | 1,843 | 778 |
| 2036 | 0.4057 | 226.55 | 329.16 | 1,843 | 748 |
| 2037 | 0.3901 | 226.55 | 329.16 | 1,843 | 719 |
| 2038 | 0.3751 | 226.55 | 329.16 | 1,843 | 691 |
| 2039 | 0.3607 | 226.55 | 329.16 | 1,843 | 665 |
| 2040 | 0.3468 | 226.55 | 329.16 | 1,843 | 639 |

| | | | | | |
|------|--------|--------|--------|-------|--------|
| 2041 | 0.3335 | 226.55 | 329.16 | 1,843 | 615 |
| 2042 | 0.3207 | 226.55 | 329.16 | 1,843 | 591 |
| 2043 | 0.3083 | 226.55 | 329.16 | 1,843 | 568 |
| 2044 | 0.2965 | 226.55 | 329.16 | 1,843 | 546 |
| 2045 | 0.2851 | 226.55 | 329.16 | 1,843 | 525 |
| 2046 | 0.2741 | 226.55 | 329.16 | 1,843 | 505 |
| 2047 | 0.2636 | 226.55 | 329.16 | 1,843 | 486 |
| 2048 | 0.2534 | 226.55 | 329.16 | 1,843 | 467 |
| 2049 | 0.2437 | 226.55 | 329.16 | 1,843 | 449 |
| 2050 | 0.2343 | 226.55 | 329.16 | 1,843 | 432 |
| 2051 | 0.2253 | 226.55 | 329.16 | 1,843 | 415 |
| 2052 | 0.2166 | 226.55 | 329.16 | 1,843 | 399 |
| 2053 | 0.2083 | 226.55 | 329.16 | 1,843 | 384 |
| 2054 | 0.2003 | 226.55 | 329.16 | 1,843 | 369 |
| 2055 | 0.1926 | 226.55 | 329.16 | 1,843 | 355 |
| 2056 | 0.1852 | 226.55 | 329.16 | 1,843 | 341 |
| 2057 | 0.1780 | 226.55 | 329.16 | 1,843 | 328 |
| 2058 | 0.1712 | 226.55 | 329.16 | 1,843 | 316 |
| 2059 | 0.1646 | 226.55 | 329.16 | 1,843 | 303 |
| 2060 | 0.1583 | 226.55 | 329.16 | 1,843 | 292 |
| 2061 | 0.1522 | 226.55 | 329.16 | 1,843 | 281 |
| 2062 | 0.1463 | 226.55 | 329.16 | 1,843 | 270 |
| 合計 | | | | | 98,251 |

$$B = \sum_{t=1}^Y \frac{V2 - V1}{Y \times (1+i)^t} \times D \times BEF \times (1 + R) \times 0.5 \times \frac{44}{12} \times U$$

- U: 二酸化炭素に関する原単位(円/CO2-ton) 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)
- V1: 事業を実施しない場合の評価最終年の当該森林の見込蓄積量(m3) スギ 6,520
ヒノキ 26,044
カラマツ 1,221
0
0
0
- V2: 事業を実施する場合の評価最終年の当該森林の見込蓄積量(m3) スギ 13,040
ヒノキ 52,087
カラマツ 2,441
0
0
0
- Y: 評価期間 80
- D: 容積密度(t/m3) スギ 0,314
ヒノキ 0,407
カラマツ 0,404
0
0
0
- BEF: バイオマス拡大係数(地上部バイオマス量/幹バイオマス量) 樹齢20年越 スギ 1,23
出典:「日本国温室効果ガスインベントリ報告書」(2012年4月)(国立環境 樹齢20年越 ヒノキ 1,24
研究所温室効果ガスインベントリオフィス編) 樹齢20年越 カラマツ 1,15
樹齢20年越 0
樹齢20年越 0
樹齢20年越 0
- R: 地上部に対する地下部の比率(地下部バイオマス量/地上部バイオマス量) スギ 0,25
出典:「日本国温室効果ガスインベントリ報告書」(2012年4月)(国立環境 ヒノキ 0,26
研究所温室効果ガスインベントリオフィス編) カラマツ 0,29
0
0
0
- 0.5: 植物中の炭素含有率
- 44/12: 炭素から二酸化炭素への換算係数

| 年度 | 社会的割引率 | スギ | | ヒノキ | | カラマツ | | | | | | | |
|------|--------|--------|-----|--------|-------|--------|-----|--------|-----|--------|-----|--------|-----|
| | | 事業効果蓄積 | 効果額 | 事業効果蓄積 | 効果額 | 事業効果蓄積 | 効果額 | 事業効果蓄積 | 効果額 | 事業効果蓄積 | 効果額 | 事業効果蓄積 | 効果額 |
| 1982 | 3.3731 | | | | | | | | | | | | |
| 1983 | 3.2434 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1984 | 3.1187 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1985 | 2.9987 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1986 | 2.8834 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1987 | 2.7725 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1988 | 2.6658 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1989 | 2.5633 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1990 | 2.4647 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1991 | 2.3699 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1992 | 2.2788 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1993 | 2.1911 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1994 | 2.1068 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1995 | 2.0258 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1996 | 1.9479 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1997 | 1.8730 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1998 | 1.8009 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 1999 | 1.7317 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2000 | 1.6651 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2001 | 1.6010 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2002 | 1.5395 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2003 | 1.4802 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2004 | 1.4233 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2005 | 1.3686 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2006 | 1.3159 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2007 | 1.2653 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2008 | 1.2167 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2009 | 1.1699 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2010 | 1.1249 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2011 | 1.0816 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2012 | 1.0400 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2013 | 1.0000 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2014 | 0.9615 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |
| 2015 | 0.9246 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | |

| | | | | | | | | | | | | | | |
|------|--------|-------|-----|--------|-------|-------|-----|--|--|--|--|--|--|--|
| 2016 | 0.8890 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2017 | 0.8548 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2018 | 0.8219 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2019 | 0.7903 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2020 | 0.7599 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2021 | 0.7307 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2022 | 0.7026 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2023 | 0.6756 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2024 | 0.6496 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2025 | 0.6246 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2026 | 0.6006 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2027 | 0.5775 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2028 | 0.5553 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2029 | 0.5339 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2030 | 0.5134 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2031 | 0.4936 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2032 | 0.4746 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2033 | 0.4564 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2034 | 0.4388 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2035 | 0.4220 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2036 | 0.4057 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2037 | 0.3901 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2038 | 0.3751 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2039 | 0.3607 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2040 | 0.3468 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2041 | 0.3335 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2042 | 0.3207 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2043 | 0.3083 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2044 | 0.2965 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2045 | 0.2851 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2046 | 0.2741 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2047 | 0.2636 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2048 | 0.2534 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2049 | 0.2437 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2050 | 0.2343 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2051 | 0.2253 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2052 | 0.2166 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2053 | 0.2083 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2054 | 0.2003 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2055 | 0.1926 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2056 | 0.1852 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2057 | 0.1780 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2058 | 0.1712 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2059 | 0.1646 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2060 | 0.1583 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2061 | 0.1522 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 2062 | 0.1463 | 81.50 | 436 | 325.54 | 2,295 | 15.26 | 101 | | | | | | | |
| 合計 | | | | | | | | | | | | | | |

| 年度 | 社会的割引率 | 合計 | |
|------|--------|-------|-------|
| | | 効果額 | 現在価値化 |
| 1982 | 3.3731 | | |
| 1983 | 3.2434 | 2,832 | 9,185 |
| 1984 | 3.1187 | 2,832 | 8,832 |
| 1985 | 2.9987 | 2,832 | 8,492 |
| 1986 | 2.8834 | 2,832 | 8,166 |
| 1987 | 2.7725 | 2,832 | 7,852 |
| 1988 | 2.6658 | 2,832 | 7,550 |
| 1989 | 2.5633 | 2,832 | 7,259 |
| 1990 | 2.4647 | 2,832 | 6,980 |
| 1991 | 2.3699 | 2,832 | 6,712 |
| 1992 | 2.2788 | 2,832 | 6,454 |
| 1993 | 2.1911 | 2,832 | 6,205 |
| 1994 | 2.1068 | 2,832 | 5,966 |
| 1995 | 2.0258 | 2,832 | 5,737 |
| 1996 | 1.9479 | 2,832 | 5,516 |
| 1997 | 1.8730 | 2,832 | 5,304 |
| 1998 | 1.8009 | 2,832 | 5,100 |
| 1999 | 1.7317 | 2,832 | 4,904 |
| 2000 | 1.6651 | 2,832 | 4,716 |
| 2001 | 1.6010 | 2,832 | 4,534 |
| 2002 | 1.5395 | 2,832 | 4,360 |
| 2003 | 1.4802 | 2,832 | 4,192 |
| 2004 | 1.4233 | 2,832 | 4,031 |
| 2005 | 1.3686 | 2,832 | 3,876 |
| 2006 | 1.3159 | 2,832 | 3,727 |
| 2007 | 1.2653 | 2,832 | 3,583 |
| 2008 | 1.2167 | 2,832 | 3,446 |
| 2009 | 1.1699 | 2,832 | 3,313 |
| 2010 | 1.1249 | 2,832 | 3,186 |
| 2011 | 1.0816 | 2,832 | 3,063 |
| 2012 | 1.0400 | 2,832 | 2,945 |
| 2013 | 1.0000 | 2,832 | 2,832 |
| 2014 | 0.9615 | 2,832 | 2,723 |
| 2015 | 0.9246 | 2,832 | 2,618 |
| 2016 | 0.8890 | 2,832 | 2,518 |
| 2017 | 0.8548 | 2,832 | 2,421 |
| 2018 | 0.8219 | 2,832 | 2,328 |
| 2019 | 0.7903 | 2,832 | 2,238 |
| 2020 | 0.7599 | 2,832 | 2,152 |

| | | | |
|------|--------|-------|---------|
| 2021 | 0.7307 | 2.832 | 2.069 |
| 2022 | 0.7026 | 2.832 | 1.990 |
| 2023 | 0.6756 | 2.832 | 1.913 |
| 2024 | 0.6496 | 2.832 | 1.840 |
| 2025 | 0.6246 | 2.832 | 1.769 |
| 2026 | 0.6006 | 2.832 | 1.701 |
| 2027 | 0.5775 | 2.832 | 1.635 |
| 2028 | 0.5553 | 2.832 | 1.573 |
| 2029 | 0.5339 | 2.832 | 1.512 |
| 2030 | 0.5134 | 2.832 | 1.454 |
| 2031 | 0.4936 | 2.832 | 1.398 |
| 2032 | 0.4746 | 2.832 | 1.344 |
| 2033 | 0.4564 | 2.832 | 1.293 |
| 2034 | 0.4388 | 2.832 | 1.243 |
| 2035 | 0.4220 | 2.832 | 1.195 |
| 2036 | 0.4057 | 2.832 | 1.149 |
| 2037 | 0.3901 | 2.832 | 1.105 |
| 2038 | 0.3751 | 2.832 | 1.062 |
| 2039 | 0.3607 | 2.832 | 1.022 |
| 2040 | 0.3468 | 2.832 | 982 |
| 2041 | 0.3335 | 2.832 | 944 |
| 2042 | 0.3207 | 2.832 | 908 |
| 2043 | 0.3083 | 2.832 | 873 |
| 2044 | 0.2965 | 2.832 | 840 |
| 2045 | 0.2851 | 2.832 | 807 |
| 2046 | 0.2741 | 2.832 | 776 |
| 2047 | 0.2636 | 2.832 | 747 |
| 2048 | 0.2534 | 2.832 | 718 |
| 2049 | 0.2437 | 2.832 | 690 |
| 2050 | 0.2343 | 2.832 | 664 |
| 2051 | 0.2253 | 2.832 | 638 |
| 2052 | 0.2166 | 2.832 | 613 |
| 2053 | 0.2083 | 2.832 | 590 |
| 2054 | 0.2003 | 2.832 | 567 |
| 2055 | 0.1926 | 2.832 | 545 |
| 2056 | 0.1852 | 2.832 | 524 |
| 2057 | 0.1780 | 2.832 | 504 |
| 2058 | 0.1712 | 2.832 | 485 |
| 2059 | 0.1646 | 2.832 | 466 |
| 2060 | 0.1583 | 2.832 | 448 |
| 2061 | 0.1522 | 2.832 | 431 |
| 2062 | 0.1463 | 2.832 | 414 |
| 合計 | | | 228.457 |

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

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

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

- 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 226.55 ~ 226.55
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) 85.31
出典:「日本国温室効果ガスインベントリ報告書」(2012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」

| | | |
|---------|-----|--|
| ①事業対象区域 | 荒地等 | |
|---------|-----|--|
- 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」

| | | |
|---------|-------|--|
| ①事業対象区域 | 整備済森林 | |
|---------|-------|--|
- 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 | | | | 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 | | | |
| 1982 | 3.3731 | | | | | | | |
| 1983 | 3.2434 | 226.55 | 15.10 | 53 | 172 | | | |
| 1984 | 3.1187 | 226.55 | 30.21 | 106 | 331 | | | |
| 1985 | 2.9987 | 226.55 | 45.31 | 160 | 480 | | | |
| 1986 | 2.8834 | 226.55 | 60.41 | 213 | 614 | | | |
| 1987 | 2.7725 | 226.55 | 75.52 | 266 | 737 | | | |
| 1988 | 2.6658 | 226.55 | 90.62 | 319 | 850 | | | |
| 1989 | 2.5633 | 226.55 | 105.72 | 373 | 956 | | | |
| 1990 | 2.4647 | 226.55 | 120.83 | 426 | 1,050 | | | |
| 1991 | 2.3699 | 226.55 | 135.93 | 479 | 1,135 | | | |
| 1992 | 2.2788 | 226.55 | 151.03 | 532 | 1,212 | | | |
| 1993 | 2.1911 | 226.55 | 166.14 | 586 | 1,284 | | | |
| 1994 | 2.1068 | 226.55 | 181.24 | 639 | 1,346 | | | |
| 1995 | 2.0258 | 226.55 | 196.34 | 692 | 1,402 | | | |
| 1996 | 1.9479 | 226.55 | 211.45 | 745 | 1,451 | | | |
| 1997 | 1.8730 | 226.55 | 226.55 | 799 | 1,497 | | | |
| 1998 | 1.8009 | 226.55 | 226.55 | 799 | 1,439 | | | |
| 1999 | 1.7317 | 226.55 | 226.55 | 799 | 1,384 | | | |
| 2000 | 1.6651 | 226.55 | 226.55 | 799 | 1,330 | | | |
| 2001 | 1.6010 | 226.55 | 226.55 | 799 | 1,279 | | | |
| 2002 | 1.5395 | 226.55 | 226.55 | 799 | 1,230 | | | |
| 2003 | 1.4802 | 226.55 | 226.55 | 799 | 1,183 | | | |
| 2004 | 1.4233 | 226.55 | 226.55 | 799 | 1,137 | | | |
| 2005 | 1.3686 | 226.55 | 226.55 | 799 | 1,094 | | | |
| 2006 | 1.3159 | 226.55 | 226.55 | 799 | 1,051 | | | |
| 2007 | 1.2653 | 226.55 | 226.55 | 799 | 1,011 | | | |
| 2008 | 1.2167 | 226.55 | 226.55 | 799 | 972 | | | |
| 2009 | 1.1699 | 226.55 | 226.55 | 799 | 935 | | | |
| 2010 | 1.1249 | 226.55 | 226.55 | 799 | 899 | | | |
| 2011 | 1.0816 | 226.55 | 226.55 | 799 | 864 | | | |
| 2012 | 1.0400 | 226.55 | 226.55 | 799 | 831 | | | |
| 2013 | 1.0000 | 226.55 | 226.55 | 799 | 799 | | | |
| 2014 | 0.9615 | 226.55 | 226.55 | 799 | 768 | | | |
| 2015 | 0.9246 | 226.55 | 226.55 | 799 | 739 | | | |
| 2016 | 0.8890 | 226.55 | 226.55 | 799 | 710 | | | |
| 2017 | 0.8548 | 226.55 | 226.55 | 799 | 683 | | | |
| 2018 | 0.8219 | 226.55 | 226.55 | 799 | 657 | | | |
| 2019 | 0.7903 | 226.55 | 226.55 | 799 | 631 | | | |
| 2020 | 0.7599 | 226.55 | 226.55 | 799 | 607 | | | |
| 2021 | 0.7307 | 226.55 | 226.55 | 799 | 584 | | | |

| | | | | | | | | |
|------|--------|--------|--------|-----|--------|--|--|---|
| 2022 | 0.7026 | 226.55 | 226.55 | 799 | 561 | | | |
| 2023 | 0.6756 | 226.55 | 226.55 | 799 | 540 | | | |
| 2024 | 0.6496 | 226.55 | 226.55 | 799 | 519 | | | |
| 2025 | 0.6246 | 226.55 | 226.55 | 799 | 499 | | | |
| 2026 | 0.6006 | 226.55 | 226.55 | 799 | 480 | | | |
| 2027 | 0.5775 | 226.55 | 226.55 | 799 | 461 | | | |
| 2028 | 0.5553 | 226.55 | 226.55 | 799 | 444 | | | |
| 2029 | 0.5339 | 226.55 | 226.55 | 799 | 427 | | | |
| 2030 | 0.5134 | 226.55 | 226.55 | 799 | 410 | | | |
| 2031 | 0.4936 | 226.55 | 226.55 | 799 | 394 | | | |
| 2032 | 0.4746 | 226.55 | 226.55 | 799 | 379 | | | |
| 2033 | 0.4564 | 226.55 | 226.55 | 799 | 365 | | | |
| 2034 | 0.4388 | 226.55 | 226.55 | 799 | 351 | | | |
| 2035 | 0.4220 | 226.55 | 226.55 | 799 | 337 | | | |
| 2036 | 0.4057 | 226.55 | 226.55 | 799 | 324 | | | |
| 2037 | 0.3901 | 226.55 | 226.55 | 799 | 312 | | | |
| 2038 | 0.3751 | 226.55 | 226.55 | 799 | 300 | | | |
| 2039 | 0.3607 | 226.55 | 226.55 | 799 | 288 | | | |
| 2040 | 0.3468 | 226.55 | 226.55 | 799 | 277 | | | |
| 2041 | 0.3335 | 226.55 | 226.55 | 799 | 266 | | | |
| 2042 | 0.3207 | 226.55 | 226.55 | 799 | 256 | | | |
| 2043 | 0.3083 | 226.55 | 226.55 | 799 | 246 | | | |
| 2044 | 0.2965 | 226.55 | 226.55 | 799 | 237 | | | |
| 2045 | 0.2851 | 226.55 | 226.55 | 799 | 228 | | | |
| 2046 | 0.2741 | 226.55 | 226.55 | 799 | 219 | | | |
| 2047 | 0.2636 | 226.55 | 226.55 | 799 | 211 | | | |
| 2048 | 0.2534 | 226.55 | 226.55 | 799 | 202 | | | |
| 2049 | 0.2437 | 226.55 | 226.55 | 799 | 195 | | | |
| 2050 | 0.2343 | 226.55 | 226.55 | 799 | 187 | | | |
| 2051 | 0.2253 | 226.55 | 226.55 | 799 | 180 | | | |
| 2052 | 0.2166 | 226.55 | 226.55 | 799 | 173 | | | |
| 2053 | 0.2083 | 226.55 | 226.55 | 799 | 166 | | | |
| 2054 | 0.2003 | 226.55 | 226.55 | 799 | 160 | | | |
| 2055 | 0.1926 | 226.55 | 226.55 | 799 | 154 | | | |
| 2056 | 0.1852 | 226.55 | 226.55 | 799 | 148 | | | |
| 2057 | 0.1780 | 226.55 | 226.55 | 799 | 142 | | | |
| 2058 | 0.1712 | 226.55 | 226.55 | 799 | 137 | | | |
| 2059 | 0.1646 | 226.55 | 226.55 | 799 | 132 | | | |
| 2060 | 0.1583 | 226.55 | 226.55 | 799 | 126 | | | |
| 2061 | 0.1522 | 226.55 | 226.55 | 799 | 122 | | | |
| 2062 | 0.1463 | 226.55 | 226.55 | 799 | 117 | | | |
| 合計 | | | | | 49,006 | | | 0 |

$$B = \sum_{t=1}^Y \frac{V_t \times @}{(1+i)^t}$$

Y: 評価期間

80

Vt主: 人工林 主伐量 t年後における伐採材積(m3)
出典:人工林林分密度管理図((一社)日本森林技術協会)、
森林農地整備センター収穫予測表((独)森林総合研究所)等

スギ 0.00 ~ 10,431.89
ヒノキ 0.00 ~ 39,065.31
カラマツ 0.00 ~ 1,830.83
0
0
0

@: 人工林 主伐材 木材市場価格(円/m3)
出典:「山林素地及び山元立木価格調((一財)日本不動産研究所)」(平成24年3月末現

スギ 1,570
ヒノキ 6,518
カラマツ 3,351
0
0
0

| 年度 | 社会的割引率 | スギ | | ヒノキ | | カラマツ | | 事業効果材積 | 効果額 | 事業効果材積 | 効果額 |
|------|--------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
| | | 事業効果材積 | 効果額 | 事業効果材積 | 効果額 | 事業効果材積 | 効果額 | | | | |
| 1982 | 3.3731 | | | | | | | | | | |
| 1983 | 3.2434 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1984 | 3.1187 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1985 | 2.9987 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1986 | 2.8834 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1987 | 2.7725 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1988 | 2.6658 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1989 | 2.5633 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1990 | 2.4647 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1991 | 2.3699 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1992 | 2.2788 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1993 | 2.1911 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1994 | 2.1068 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1995 | 2.0258 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1996 | 1.9479 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1997 | 1.8730 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1998 | 1.8009 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 1999 | 1.7317 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2000 | 1.6651 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2001 | 1.6010 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2002 | 1.5395 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2003 | 1.4802 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2004 | 1.4233 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2005 | 1.3686 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2006 | 1.3159 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2007 | 1.2653 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2008 | 1.2167 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2009 | 1.1699 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2010 | 1.1249 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2011 | 1.0816 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2012 | 1.0400 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2013 | 1.0000 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2014 | 0.9615 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2015 | 0.9246 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2016 | 0.8890 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2017 | 0.8548 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2018 | 0.8219 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2019 | 0.7903 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2020 | 0.7599 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2021 | 0.7307 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2022 | 0.7026 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2023 | 0.6756 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2024 | 0.6496 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2025 | 0.6246 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2026 | 0.6006 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2027 | 0.5775 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2028 | 0.5553 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2029 | 0.5339 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2030 | 0.5134 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2031 | 0.4936 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2032 | 0.4746 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2033 | 0.4564 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2034 | 0.4388 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2035 | 0.4220 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2036 | 0.4057 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2037 | 0.3901 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2038 | 0.3751 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2039 | 0.3607 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2040 | 0.3468 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2041 | 0.3335 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |

| | | | | | | | | | | | |
|------|--------|-----------|--------|-----------|---------|----------|-------|--|--|--|--|
| 2042 | 0.3207 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2043 | 0.3083 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2044 | 0.2965 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2045 | 0.2851 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2046 | 0.2741 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2047 | 0.2636 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2048 | 0.2534 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2049 | 0.2437 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2050 | 0.2343 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2051 | 0.2253 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2052 | 0.2166 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2053 | 0.2083 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2054 | 0.2003 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2055 | 0.1926 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2056 | 0.1852 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2057 | 0.1780 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2058 | 0.1712 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2059 | 0.1646 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2060 | 0.1583 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2061 | 0.1522 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | | | |
| 2062 | 0.1463 | 10,431.89 | 16.378 | 39,065.31 | 254.628 | 1,830.83 | 6,135 | | | | |
| 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 |
| 1982 | 3.3731 | | | 0 | 0 |
| 1983 | 3.2434 | | | 0 | 0 |
| 1984 | 3.1187 | | | 0 | 0 |
| 1985 | 2.9987 | | | 0 | 0 |
| 1986 | 2.8834 | | | 0 | 0 |
| 1987 | 2.7725 | | | 0 | 0 |
| 1988 | 2.6658 | | | 0 | 0 |
| 1989 | 2.5633 | | | 0 | 0 |
| 1990 | 2.4647 | | | 0 | 0 |
| 1991 | 2.3699 | | | 0 | 0 |
| 1992 | 2.2788 | | | 0 | 0 |
| 1993 | 2.1911 | | | 0 | 0 |
| 1994 | 2.1068 | | | 0 | 0 |
| 1995 | 2.0258 | | | 0 | 0 |
| 1996 | 1.9479 | | | 0 | 0 |
| 1997 | 1.8730 | | | 0 | 0 |
| 1998 | 1.8009 | | | 0 | 0 |
| 1999 | 1.7317 | | | 0 | 0 |
| 2000 | 1.6651 | | | 0 | 0 |
| 2001 | 1.6010 | | | 0 | 0 |
| 2002 | 1.5395 | | | 0 | 0 |
| 2003 | 1.4802 | | | 0 | 0 |
| 2004 | 1.4233 | | | 0 | 0 |
| 2005 | 1.3686 | | | 0 | 0 |
| 2006 | 1.3159 | | | 0 | 0 |
| 2007 | 1.2653 | | | 0 | 0 |
| 2008 | 1.2167 | | | 0 | 0 |
| 2009 | 1.1699 | | | 0 | 0 |
| 2010 | 1.1249 | | | 0 | 0 |
| 2011 | 1.0816 | | | 0 | 0 |
| 2012 | 1.0400 | | | 0 | 0 |
| 2013 | 1.0000 | | | 0 | 0 |
| 2014 | 0.9615 | | | 0 | 0 |
| 2015 | 0.9246 | | | 0 | 0 |
| 2016 | 0.8890 | | | 0 | 0 |
| 2017 | 0.8548 | | | 0 | 0 |
| 2018 | 0.8219 | | | 0 | 0 |
| 2019 | 0.7903 | | | 0 | 0 |
| 2020 | 0.7599 | | | 0 | 0 |
| 2021 | 0.7307 | | | 0 | 0 |
| 2022 | 0.7026 | | | 0 | 0 |
| 2023 | 0.6756 | | | 0 | 0 |
| 2024 | 0.6496 | | | 0 | 0 |
| 2025 | 0.6246 | | | 0 | 0 |
| 2026 | 0.6006 | | | 0 | 0 |
| 2027 | 0.5775 | | | 0 | 0 |
| 2028 | 0.5553 | | | 0 | 0 |
| 2029 | 0.5339 | | | 0 | 0 |
| 2030 | 0.5134 | | | 0 | 0 |
| 2031 | 0.4936 | | | 0 | 0 |
| 2032 | 0.4746 | | | 0 | 0 |
| 2033 | 0.4564 | | | 0 | 0 |
| 2034 | 0.4388 | | | 0 | 0 |
| 2035 | 0.4220 | | | 0 | 0 |
| 2036 | 0.4057 | | | 0 | 0 |
| 2037 | 0.3901 | | | 0 | 0 |
| 2038 | 0.3751 | | | 0 | 0 |
| 2039 | 0.3607 | | | 0 | 0 |
| 2040 | 0.3468 | | | 0 | 0 |
| 2041 | 0.3335 | | | 0 | 0 |
| 2042 | 0.3207 | | | 0 | 0 |
| 2043 | 0.3083 | | | 0 | 0 |
| 2044 | 0.2965 | | | 0 | 0 |
| 2045 | 0.2851 | | | 0 | 0 |
| 2046 | 0.2741 | | | 0 | 0 |

| | | | | | |
|------|--------|--|--|---------|--------|
| 2047 | 0.2636 | | | 0 | 0 |
| 2048 | 0.2534 | | | 0 | 0 |
| 2049 | 0.2437 | | | 0 | 0 |
| 2050 | 0.2343 | | | 0 | 0 |
| 2051 | 0.2253 | | | 0 | 0 |
| 2052 | 0.2166 | | | 0 | 0 |
| 2053 | 0.2083 | | | 0 | 0 |
| 2054 | 0.2003 | | | 0 | 0 |
| 2055 | 0.1926 | | | 0 | 0 |
| 2056 | 0.1852 | | | 0 | 0 |
| 2057 | 0.1780 | | | 0 | 0 |
| 2058 | 0.1712 | | | 0 | 0 |
| 2059 | 0.1646 | | | 0 | 0 |
| 2060 | 0.1583 | | | 0 | 0 |
| 2061 | 0.1522 | | | 0 | 0 |
| 2062 | 0.1463 | | | 277,141 | 40,546 |
| 合計 | | | | | 40,546 |