

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： 熊野川広域流域 50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 3 6 | | × 7.3910 | | H 3 4 | 0 | × 0.6756 | 0 |
| S 3 7 | 1,678,771 | × 7.1067 | 11,930,522 | H 3 5 | 0 | × 0.6496 | 0 |
| S 3 8 | 434,776 | × 6.8333 | 2,970,955 | H 3 6 | 0 | × 0.6246 | 0 |
| S 3 9 | 353,529 | × 6.5705 | 2,322,862 | H 3 7 | 0 | × 0.6006 | 0 |
| S 4 0 | 258,986 | × 6.3178 | 1,636,222 | H 3 8 | 0 | × 0.5775 | 0 |
| S 4 1 | 182,562 | × 6.0748 | 1,109,028 | H 3 9 | 0 | × 0.5553 | 0 |
| S 4 2 | 166,663 | × 5.8412 | 973,512 | H 4 0 | 0 | × 0.5339 | 0 |
| S 4 3 | 0 | × 5.6165 | 0 | H 4 1 | 0 | × 0.5134 | 0 |
| S 4 4 | 76,574 | × 5.4005 | 413,538 | H 4 2 | 0 | × 0.4936 | 0 |
| S 4 5 | 0 | × 5.1928 | 0 | H 4 3 | 0 | × 0.4746 | 0 |
| S 4 6 | 66,056 | × 4.9931 | 329,824 | H 4 4 | 0 | × 0.4564 | 0 |
| S 4 7 | 8,337 | × 4.8010 | 40,026 | H 4 5 | 0 | × 0.4388 | 0 |
| S 4 8 | 216,784 | × 4.6164 | 1,000,762 | H 4 6 | 0 | × 0.4220 | 0 |
| S 4 9 | 0 | × 4.4388 | 0 | H 4 7 | 0 | × 0.4057 | 0 |
| S 5 0 | 276,576 | × 4.2681 | 1,180,454 | H 4 8 | 0 | × 0.3901 | 0 |
| S 5 1 | 0 | × 4.1039 | 0 | H 4 9 | 0 | × 0.3751 | 0 |
| S 5 2 | 39,593 | × 3.9461 | 156,238 | H 5 0 | 0 | × 0.3607 | 0 |
| S 5 3 | 0 | × 3.7943 | 0 | H 5 1 | 0 | × 0.3468 | 0 |
| S 5 4 | 68,799 | × 3.6484 | 251,006 | H 5 2 | 0 | × 0.3335 | 0 |
| S 5 5 | 0 | × 3.5081 | 0 | H 5 3 | 0 | × 0.3207 | 0 |
| S 5 6 | 142,002 | × 3.3731 | 478,987 | | | | |
| S 5 7 | 104,349 | × 3.2434 | 338,446 | | | | |
| S 5 8 | 0 | × 3.1187 | 0 | | | | |
| S 5 9 | 0 | × 2.9987 | 0 | | | | |
| S 6 0 | 0 | × 2.8834 | 0 | | | | |
| S 6 1 | 0 | × 2.7725 | 0 | | | | |
| S 6 2 | 207,317 | × 2.6658 | 552,666 | | | | |
| S 6 3 | 0 | × 2.5633 | 0 | | | | |
| H 1 | 0 | × 2.4647 | 0 | | | | |
| H 2 | 0 | × 2.3699 | 0 | | | | |
| H 3 | 0 | × 2.2788 | 0 | | | | |
| H 4 | 0 | × 2.1911 | 0 | | | | |
| H 5 | 0 | × 2.1068 | 0 | | | | |
| H 6 | 0 | × 2.0258 | 0 | | | | |
| H 7 | 0 | × 1.9479 | 0 | | | | |
| H 8 | 0 | × 1.8730 | 0 | | | | |
| H 9 | 0 | × 1.8009 | 0 | | | | |
| H 1 0 | 0 | × 1.7317 | 0 | | | | |
| H 1 1 | 0 | × 1.6651 | 0 | | | | |
| H 1 2 | 0 | × 1.6010 | 0 | | | | |
| H 1 3 | 0 | × 1.5395 | 0 | | | | |
| H 1 4 | 0 | × 1.4802 | 0 | | | | |
| H 1 5 | 0 | × 1.4233 | 0 | | | | |
| H 1 6 | 0 | × 1.3686 | 0 | | | | |
| H 1 7 | 0 | × 1.3159 | 0 | | | | |
| H 1 8 | 0 | × 1.2653 | 0 | | | | |
| H 1 9 | 0 | × 1.2167 | 0 | | | | |
| H 2 0 | 0 | × 1.1699 | 0 | | | | |
| H 2 1 | 0 | × 1.1249 | 0 | | | | |
| H 2 2 | 0 | × 1.0816 | 0 | | | | |
| H 2 3 | 0 | × 1.0400 | 0 | | | | |
| H 2 4 | 0 | × 1.0000 | 0 | | | | |
| H 2 5 | 0 | × 0.9615 | 0 | | | | |
| H 2 6 | 0 | × 0.9246 | 0 | | | | |
| H 2 7 | 0 | × 0.8890 | 0 | | | | |
| H 2 8 | 0 | × 0.8548 | 0 | | | | |
| H 2 9 | 22,506 | × 0.8219 | 18,498 | | | | |
| H 3 0 | 0 | × 0.7903 | 0 | | | | |
| H 3 1 | 0 | × 0.7599 | 0 | | | | |
| H 3 2 | 0 | × 0.7307 | 0 | | | | |
| H 3 3 | 0 | × 0.7026 | 0 | | | | |
| | | | | 合 計 | | | 25,703,546 |
| | | | | C = | | | 25,703,546 千円 |

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

- 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) 3,740,000
- 出典:「ダム年鑑2011」
- 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) 87.04
- 出典:気象統計情報(気象庁)
- A: 事業対象区域面積(ha) 900.92 ~ 900.92
- 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 |
|------|--------|----------|--------|--------|---------|
| 1961 | 7.3910 | | | | |
| 1962 | 7.1067 | 900.92 | 60.06 | 5.431 | 38.596 |
| 1963 | 6.8333 | 900.92 | 120.12 | 10.862 | 74.223 |
| 1964 | 6.5705 | 900.92 | 180.18 | 16.293 | 107.053 |
| 1965 | 6.3178 | 900.92 | 240.25 | 21.724 | 137.248 |
| 1966 | 6.0748 | 900.92 | 300.31 | 27.155 | 164.961 |
| 1967 | 5.8412 | 900.92 | 360.37 | 32.586 | 190.341 |
| 1968 | 5.6165 | 900.92 | 420.43 | 38.017 | 213.522 |
| 1969 | 5.4005 | 900.92 | 480.49 | 43.448 | 234.641 |
| 1970 | 5.1928 | 900.92 | 540.55 | 48.879 | 253.819 |
| 1971 | 4.9931 | 900.92 | 600.61 | 54.310 | 271.175 |
| 1972 | 4.8010 | 900.92 | 660.67 | 59.742 | 286.821 |
| 1973 | 4.6164 | 900.92 | 720.74 | 65.173 | 300.865 |
| 1974 | 4.4388 | 900.92 | 780.80 | 70.604 | 313.397 |
| 1975 | 4.2681 | 900.92 | 840.86 | 76.035 | 324.525 |
| 1976 | 4.1039 | 900.92 | 900.92 | 81.466 | 334.328 |
| 1977 | 3.9461 | 900.92 | 900.92 | 81.466 | 321.473 |
| 1978 | 3.7943 | 900.92 | 900.92 | 81.466 | 309.106 |
| 1979 | 3.6484 | 900.92 | 900.92 | 81.466 | 297.221 |
| 1980 | 3.5081 | 900.92 | 900.92 | 81.466 | 285.791 |
| 1981 | 3.3731 | 900.92 | 900.92 | 81.466 | 274.793 |
| 1982 | 3.2434 | 900.92 | 900.92 | 81.466 | 264.227 |
| 1983 | 3.1187 | 900.92 | 900.92 | 81.466 | 254.068 |
| 1984 | 2.9987 | 900.92 | 900.92 | 81.466 | 244.292 |
| 1985 | 2.8834 | 900.92 | 900.92 | 81.466 | 234.899 |
| 1986 | 2.7725 | 900.92 | 900.92 | 81.466 | 225.864 |
| 1987 | 2.6658 | 900.92 | 900.92 | 81.466 | 217.172 |
| 1988 | 2.5633 | 900.92 | 900.92 | 81.466 | 208.822 |
| 1989 | 2.4647 | 900.92 | 900.92 | 81.466 | 200.789 |
| 1990 | 2.3699 | 900.92 | 900.92 | 81.466 | 193.066 |
| 1991 | 2.2788 | 900.92 | 900.92 | 81.466 | 185.645 |
| 1992 | 2.1911 | 900.92 | 900.92 | 81.466 | 178.500 |
| 1993 | 2.1068 | 900.92 | 900.92 | 81.466 | 171.633 |
| 1994 | 2.0258 | 900.92 | 900.92 | 81.466 | 165.034 |
| 1995 | 1.9479 | 900.92 | 900.92 | 81.466 | 158.688 |
| 1996 | 1.8730 | 900.92 | 900.92 | 81.466 | 152.586 |
| 1997 | 1.8009 | 900.92 | 900.92 | 81.466 | 146.712 |
| 1998 | 1.7317 | 900.92 | 900.92 | 81.466 | 141.075 |
| 1999 | 1.6651 | 900.92 | 900.92 | 81.466 | 135.649 |
| 2000 | 1.6010 | 900.92 | 900.92 | 81.466 | 130.427 |
| 2001 | 1.5395 | 900.92 | 900.92 | 81.466 | 125.417 |
| 2002 | 1.4802 | 900.92 | 900.92 | 81.466 | 120.586 |
| 2003 | 1.4233 | 900.92 | 900.92 | 81.466 | 115.951 |
| 2004 | 1.3686 | 900.92 | 900.92 | 81.466 | 111.494 |
| 2005 | 1.3159 | 900.92 | 900.92 | 81.466 | 107.201 |
| 2006 | 1.2653 | 900.92 | 900.92 | 81.466 | 103.079 |
| 2007 | 1.2167 | 900.92 | 900.92 | 81.466 | 99.120 |
| 2008 | 1.1699 | 900.92 | 900.92 | 81.466 | 95.307 |
| 2009 | 1.1249 | 900.92 | 900.92 | 81.466 | 91.641 |
| 2010 | 1.0816 | 900.92 | 900.92 | 81.466 | 88.114 |
| 2011 | 1.0400 | 900.92 | 900.92 | 81.466 | 84.725 |
| 2012 | 1.0000 | 900.92 | 900.92 | 81.466 | 81.466 |
| 2013 | 0.9615 | 900.92 | 900.92 | 81.466 | 78.330 |
| 2014 | 0.9246 | 900.92 | 900.92 | 81.466 | 75.323 |
| 2015 | 0.8890 | 900.92 | 900.92 | 81.466 | 72.423 |
| 2016 | 0.8548 | 900.92 | 900.92 | 81.466 | 69.637 |
| 2017 | 0.8219 | 900.92 | 900.92 | 81.466 | 66.957 |
| 2018 | 0.7903 | 900.92 | 900.92 | 81.466 | 64.383 |
| 2019 | 0.7599 | 900.92 | 900.92 | 81.466 | 61.906 |
| 2020 | 0.7307 | 900.92 | 900.92 | 81.466 | 59.527 |
| 2021 | 0.7026 | 900.92 | 900.92 | 81.466 | 57.238 |
| 2022 | 0.6756 | 900.92 | 900.92 | 81.466 | 55.038 |
| 2023 | 0.6496 | 900.92 | 900.92 | 81.466 | 52.920 |

| | | | | | |
|------|--------|--------|--------|--------|------------|
| 2024 | 0.6246 | 900.92 | 900.92 | 81,466 | 50,884 |
| 2025 | 0.6006 | 900.92 | 900.92 | 81,466 | 48,928 |
| 2026 | 0.5775 | 900.92 | 900.92 | 81,466 | 47,047 |
| 2027 | 0.5553 | 900.92 | 900.92 | 81,466 | 45,238 |
| 2028 | 0.5339 | 900.92 | 900.92 | 81,466 | 43,495 |
| 2029 | 0.5134 | 900.92 | 900.92 | 81,466 | 41,825 |
| 2030 | 0.4936 | 900.92 | 900.92 | 81,466 | 40,212 |
| 2031 | 0.4746 | 900.92 | 900.92 | 81,466 | 38,664 |
| 2032 | 0.4564 | 900.92 | 900.92 | 81,466 | 37,181 |
| 2033 | 0.4388 | 900.92 | 900.92 | 81,466 | 35,747 |
| 2034 | 0.4220 | 900.92 | 900.92 | 81,466 | 34,379 |
| 2035 | 0.4057 | 900.92 | 900.92 | 81,466 | 33,051 |
| 2036 | 0.3901 | 900.92 | 900.92 | 81,466 | 31,780 |
| 2037 | 0.3751 | 900.92 | 900.92 | 81,466 | 30,558 |
| 2038 | 0.3607 | 900.92 | 900.92 | 81,466 | 29,385 |
| 2039 | 0.3468 | 900.92 | 900.92 | 81,466 | 28,252 |
| 2040 | 0.3335 | 900.92 | 900.92 | 81,466 | 27,169 |
| 2041 | 0.3207 | 900.92 | 900.92 | 81,466 | 26,126 |
| 合計 | | | | | 10,950,751 |

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

- A: 事業対象区域面積 (ha) 900.92 ~ 900.92
- P: 年間平均降雨量 (mm/年) 2,142
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) 1,022,000,000
出典: 「ダム年鑑2011」
- Y: 評価期間 80
- 10: 単位合わせのための調整値
- 365: 1年間の日数
- 86400: 1日の秒数

| 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 |
|-------|--------|----------|--------|--------|---------|
| 1,961 | 7.3910 | | | | |
| 1,962 | 7.1067 | 900.92 | 60.06 | 2,085 | 14,817 |
| 1,963 | 6.8333 | 900.92 | 120.12 | 4,170 | 28,495 |
| 1,964 | 6.5705 | 900.92 | 180.18 | 6,255 | 41,098 |
| 1,965 | 6.3178 | 900.92 | 240.25 | 8,339 | 52,684 |
| 1,966 | 6.0748 | 900.92 | 300.31 | 10,424 | 63,324 |
| 1,967 | 5.8412 | 900.92 | 360.37 | 12,509 | 73,068 |
| 1,968 | 5.6165 | 900.92 | 420.43 | 14,594 | 81,967 |
| 1,969 | 5.4005 | 900.92 | 480.49 | 16,679 | 90,075 |
| 1,970 | 5.1928 | 900.92 | 540.55 | 18,764 | 97,438 |
| 1,971 | 4.9931 | 900.92 | 600.61 | 20,848 | 104,096 |
| 1,972 | 4.8010 | 900.92 | 660.67 | 22,933 | 110,101 |
| 1,973 | 4.6164 | 900.92 | 720.74 | 25,018 | 115,493 |
| 1,974 | 4.4388 | 900.92 | 780.80 | 27,103 | 120,305 |
| 1,975 | 4.2681 | 900.92 | 840.86 | 29,188 | 124,577 |
| 1,976 | 4.1039 | 900.92 | 900.92 | 31,273 | 128,341 |
| 1,977 | 3.9461 | 900.92 | 900.92 | 31,273 | 123,406 |
| 1,978 | 3.7943 | 900.92 | 900.92 | 31,273 | 118,659 |
| 1,979 | 3.6484 | 900.92 | 900.92 | 31,273 | 114,096 |
| 1,980 | 3.5081 | 900.92 | 900.92 | 31,273 | 109,709 |
| 1,981 | 3.3731 | 900.92 | 900.92 | 31,273 | 105,487 |
| 1,982 | 3.2434 | 900.92 | 900.92 | 31,273 | 101,431 |
| 1,983 | 3.1187 | 900.92 | 900.92 | 31,273 | 97,531 |
| 1,984 | 2.9987 | 900.92 | 900.92 | 31,273 | 93,778 |
| 1,985 | 2.8834 | 900.92 | 900.92 | 31,273 | 90,173 |
| 1,986 | 2.7725 | 900.92 | 900.92 | 31,273 | 86,704 |
| 1,987 | 2.6658 | 900.92 | 900.92 | 31,273 | 83,368 |
| 1,988 | 2.5633 | 900.92 | 900.92 | 31,273 | 80,162 |
| 1,989 | 2.4647 | 900.92 | 900.92 | 31,273 | 77,079 |
| 1,990 | 2.3699 | 900.92 | 900.92 | 31,273 | 74,114 |
| 1,991 | 2.2788 | 900.92 | 900.92 | 31,273 | 71,265 |
| 1,992 | 2.1911 | 900.92 | 900.92 | 31,273 | 68,522 |
| 1,993 | 2.1068 | 900.92 | 900.92 | 31,273 | 65,886 |
| 1,994 | 2.0258 | 900.92 | 900.92 | 31,273 | 63,353 |
| 1,995 | 1.9479 | 900.92 | 900.92 | 31,273 | 60,917 |
| 1,996 | 1.8730 | 900.92 | 900.92 | 31,273 | 58,574 |
| 1,997 | 1.8009 | 900.92 | 900.92 | 31,273 | 56,320 |
| 1,998 | 1.7317 | 900.92 | 900.92 | 31,273 | 54,155 |
| 1,999 | 1.6651 | 900.92 | 900.92 | 31,273 | 52,073 |
| 2,000 | 1.6010 | 900.92 | 900.92 | 31,273 | 50,068 |
| 2,001 | 1.5395 | 900.92 | 900.92 | 31,273 | 48,145 |
| 2,002 | 1.4802 | 900.92 | 900.92 | 31,273 | 46,290 |
| 2,003 | 1.4233 | 900.92 | 900.92 | 31,273 | 44,511 |
| 2,004 | 1.3686 | 900.92 | 900.92 | 31,273 | 42,800 |
| 2,005 | 1.3159 | 900.92 | 900.92 | 31,273 | 41,152 |
| 2,006 | 1.2653 | 900.92 | 900.92 | 31,273 | 39,570 |
| 2,007 | 1.2167 | 900.92 | 900.92 | 31,273 | 38,050 |
| 2,008 | 1.1699 | 900.92 | 900.92 | 31,273 | 36,586 |
| 2,009 | 1.1249 | 900.92 | 900.92 | 31,273 | 35,179 |
| 2,010 | 1.0816 | 900.92 | 900.92 | 31,273 | 33,825 |
| 2,011 | 1.0400 | 900.92 | 900.92 | 31,273 | 32,524 |
| 2,012 | 1.0000 | 900.92 | 900.92 | 31,273 | 31,273 |
| 2,013 | 0.9615 | 900.92 | 900.92 | 31,273 | 30,069 |
| 2,014 | 0.9246 | 900.92 | 900.92 | 31,273 | 28,915 |
| 2,015 | 0.8890 | 900.92 | 900.92 | 31,273 | 27,802 |
| 2,016 | 0.8548 | 900.92 | 900.92 | 31,273 | 26,732 |
| 2,017 | 0.8219 | 900.92 | 900.92 | 31,273 | 25,703 |
| 2,018 | 0.7903 | 900.92 | 900.92 | 31,273 | 24,715 |
| 2,019 | 0.7599 | 900.92 | 900.92 | 31,273 | 23,764 |

| | | | | | |
|-------|--------|--------|--------|--------|-----------|
| 2.020 | 0.7307 | 900.92 | 900.92 | 31,273 | 22,851 |
| 2.021 | 0.7026 | 900.92 | 900.92 | 31,273 | 21,972 |
| 2.022 | 0.6756 | 900.92 | 900.92 | 31,273 | 21,128 |
| 2.023 | 0.6496 | 900.92 | 900.92 | 31,273 | 20,315 |
| 2.024 | 0.6246 | 900.92 | 900.92 | 31,273 | 19,533 |
| 2.025 | 0.6006 | 900.92 | 900.92 | 31,273 | 18,783 |
| 2.026 | 0.5775 | 900.92 | 900.92 | 31,273 | 18,060 |
| 2.027 | 0.5553 | 900.92 | 900.92 | 31,273 | 17,366 |
| 2.028 | 0.5339 | 900.92 | 900.92 | 31,273 | 16,697 |
| 2.029 | 0.5134 | 900.92 | 900.92 | 31,273 | 16,056 |
| 2.030 | 0.4936 | 900.92 | 900.92 | 31,273 | 15,436 |
| 2.031 | 0.4746 | 900.92 | 900.92 | 31,273 | 14,842 |
| 2.032 | 0.4564 | 900.92 | 900.92 | 31,273 | 14,273 |
| 2.033 | 0.4388 | 900.92 | 900.92 | 31,273 | 13,723 |
| 2.034 | 0.4220 | 900.92 | 900.92 | 31,273 | 13,197 |
| 2.035 | 0.4057 | 900.92 | 900.92 | 31,273 | 12,687 |
| 2.036 | 0.3901 | 900.92 | 900.92 | 31,273 | 12,200 |
| 2.037 | 0.3751 | 900.92 | 900.92 | 31,273 | 11,731 |
| 2.038 | 0.3607 | 900.92 | 900.92 | 31,273 | 11,280 |
| 2.039 | 0.3468 | 900.92 | 900.92 | 31,273 | 10,845 |
| 2.040 | 0.3335 | 900.92 | 900.92 | 31,273 | 10,430 |
| 2.041 | 0.3207 | 900.92 | 900.92 | 31,273 | 10,029 |
| 合計 | | | | | 4,203,748 |

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

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

- Qx: 全貯留量のうち生活用水使用相当量 155.00 億
- Qy: 全貯留量 - Qx 1,707.30 億
- A: 事業対象区域面積 (ha) 900.92 ~ 900.92
- P: 年間平均降雨量 (mm/年)
出典: 気象統計情報 (気象庁) 2,142
- 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) 176.35
出典: 「日本の水資源」
- 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) 77.57
- 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 |
|------|--------|----------|--------|--------|---------|
| 1961 | 7.3910 | | | | |
| 1962 | 7.1067 | 900.92 | 60.06 | 4,990 | 35,462 |
| 1963 | 6.8333 | 900.92 | 120.12 | 9,981 | 68,203 |
| 1964 | 6.5705 | 900.92 | 180.18 | 14,971 | 98,367 |
| 1965 | 6.3178 | 900.92 | 240.25 | 19,961 | 126,110 |
| 1966 | 6.0748 | 900.92 | 300.31 | 24,951 | 151,572 |
| 1967 | 5.8412 | 900.92 | 360.37 | 29,942 | 174,897 |
| 1968 | 5.6165 | 900.92 | 420.43 | 34,932 | 196,196 |
| 1969 | 5.4005 | 900.92 | 480.49 | 39,922 | 215,599 |
| 1970 | 5.1928 | 900.92 | 540.55 | 44,912 | 233,219 |
| 1971 | 4.9931 | 900.92 | 600.61 | 49,903 | 249,171 |
| 1972 | 4.8010 | 900.92 | 660.67 | 54,893 | 263,541 |
| 1973 | 4.6164 | 900.92 | 720.74 | 59,883 | 276,444 |
| 1974 | 4.4388 | 900.92 | 780.80 | 64,873 | 287,958 |
| 1975 | 4.2681 | 900.92 | 840.86 | 69,864 | 298,187 |
| 1976 | 4.1039 | 900.92 | 900.92 | 74,854 | 307,193 |
| 1977 | 3.9461 | 900.92 | 900.92 | 74,854 | 295,381 |
| 1978 | 3.7943 | 900.92 | 900.92 | 74,854 | 284,019 |
| 1979 | 3.6484 | 900.92 | 900.92 | 74,854 | 273,097 |
| 1980 | 3.5081 | 900.92 | 900.92 | 74,854 | 262,595 |
| 1981 | 3.3731 | 900.92 | 900.92 | 74,854 | 252,490 |
| 1982 | 3.2434 | 900.92 | 900.92 | 74,854 | 242,781 |
| 1983 | 3.1187 | 900.92 | 900.92 | 74,854 | 233,447 |
| 1984 | 2.9987 | 900.92 | 900.92 | 74,854 | 224,465 |
| 1985 | 2.8834 | 900.92 | 900.92 | 74,854 | 215,834 |
| 1986 | 2.7725 | 900.92 | 900.92 | 74,854 | 207,533 |
| 1987 | 2.6658 | 900.92 | 900.92 | 74,854 | 199,546 |
| 1988 | 2.5633 | 900.92 | 900.92 | 74,854 | 191,873 |
| 1989 | 2.4647 | 900.92 | 900.92 | 74,854 | 184,493 |
| 1990 | 2.3699 | 900.92 | 900.92 | 74,854 | 177,396 |
| 1991 | 2.2788 | 900.92 | 900.92 | 74,854 | 170,577 |
| 1992 | 2.1911 | 900.92 | 900.92 | 74,854 | 164,013 |
| 1993 | 2.1068 | 900.92 | 900.92 | 74,854 | 157,702 |
| 1994 | 2.0258 | 900.92 | 900.92 | 74,854 | 151,639 |
| 1995 | 1.9479 | 900.92 | 900.92 | 74,854 | 145,808 |
| 1996 | 1.8730 | 900.92 | 900.92 | 74,854 | 140,202 |
| 1997 | 1.8009 | 900.92 | 900.92 | 74,854 | 134,805 |
| 1998 | 1.7317 | 900.92 | 900.92 | 74,854 | 129,625 |
| 1999 | 1.6651 | 900.92 | 900.92 | 74,854 | 124,639 |
| 2000 | 1.6010 | 900.92 | 900.92 | 74,854 | 119,841 |
| 2001 | 1.5395 | 900.92 | 900.92 | 74,854 | 115,238 |
| 2002 | 1.4802 | 900.92 | 900.92 | 74,854 | 110,799 |
| 2003 | 1.4233 | 900.92 | 900.92 | 74,854 | 106,540 |
| 2004 | 1.3686 | 900.92 | 900.92 | 74,854 | 102,445 |
| 2005 | 1.3159 | 900.92 | 900.92 | 74,854 | 98,500 |
| 2006 | 1.2653 | 900.92 | 900.92 | 74,854 | 94,713 |
| 2007 | 1.2167 | 900.92 | 900.92 | 74,854 | 91,075 |
| 2008 | 1.1699 | 900.92 | 900.92 | 74,854 | 87,572 |
| 2009 | 1.1249 | 900.92 | 900.92 | 74,854 | 84,203 |
| 2010 | 1.0816 | 900.92 | 900.92 | 74,854 | 80,962 |
| 2011 | 1.0400 | 900.92 | 900.92 | 74,854 | 77,848 |

| | | | | | |
|------|--------|--------|--------|--------|------------|
| 2012 | 1.0000 | 900.92 | 900.92 | 74,854 | 74,854 |
| 2013 | 0.9615 | 900.92 | 900.92 | 74,854 | 71,972 |
| 2014 | 0.9246 | 900.92 | 900.92 | 74,854 | 69,210 |
| 2015 | 0.8890 | 900.92 | 900.92 | 74,854 | 66,545 |
| 2016 | 0.8548 | 900.92 | 900.92 | 74,854 | 63,985 |
| 2017 | 0.8219 | 900.92 | 900.92 | 74,854 | 61,523 |
| 2018 | 0.7903 | 900.92 | 900.92 | 74,854 | 59,157 |
| 2019 | 0.7599 | 900.92 | 900.92 | 74,854 | 56,882 |
| 2020 | 0.7307 | 900.92 | 900.92 | 74,854 | 54,696 |
| 2021 | 0.7026 | 900.92 | 900.92 | 74,854 | 52,592 |
| 2022 | 0.6756 | 900.92 | 900.92 | 74,854 | 50,571 |
| 2023 | 0.6496 | 900.92 | 900.92 | 74,854 | 48,625 |
| 2024 | 0.6246 | 900.92 | 900.92 | 74,854 | 46,754 |
| 2025 | 0.6006 | 900.92 | 900.92 | 74,854 | 44,957 |
| 2026 | 0.5775 | 900.92 | 900.92 | 74,854 | 43,228 |
| 2027 | 0.5553 | 900.92 | 900.92 | 74,854 | 41,566 |
| 2028 | 0.5339 | 900.92 | 900.92 | 74,854 | 39,965 |
| 2029 | 0.5134 | 900.92 | 900.92 | 74,854 | 38,430 |
| 2030 | 0.4936 | 900.92 | 900.92 | 74,854 | 36,948 |
| 2031 | 0.4746 | 900.92 | 900.92 | 74,854 | 35,526 |
| 2032 | 0.4564 | 900.92 | 900.92 | 74,854 | 34,163 |
| 2033 | 0.4388 | 900.92 | 900.92 | 74,854 | 32,846 |
| 2034 | 0.4220 | 900.92 | 900.92 | 74,854 | 31,588 |
| 2035 | 0.4057 | 900.92 | 900.92 | 74,854 | 30,368 |
| 2036 | 0.3901 | 900.92 | 900.92 | 74,854 | 29,201 |
| 2037 | 0.3751 | 900.92 | 900.92 | 74,854 | 28,078 |
| 2038 | 0.3607 | 900.92 | 900.92 | 74,854 | 27,000 |
| 2039 | 0.3468 | 900.92 | 900.92 | 74,854 | 25,959 |
| 2040 | 0.3335 | 900.92 | 900.92 | 74,854 | 24,964 |
| 2041 | 0.3207 | 900.92 | 900.92 | 74,854 | 24,006 |
| 合計 | | | | | 10,061,974 |

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

- 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」
- 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」
- A: 事業対象区域面積 (ha) 900.92 ~ 900.92
- 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 |
|------|--------|----------|--------|--------|---------|
| 1961 | 7.3910 | | | | |
| 1962 | 7.1067 | 900.92 | 60.06 | 6,290 | 44,701 |
| 1963 | 6.8333 | 900.92 | 120.12 | 12,579 | 85,956 |
| 1964 | 6.5705 | 900.92 | 180.18 | 18,869 | 123,979 |
| 1965 | 6.3178 | 900.92 | 240.25 | 25,158 | 158,943 |
| 1966 | 6.0748 | 900.92 | 300.31 | 31,448 | 191,040 |
| 1967 | 5.8412 | 900.92 | 360.37 | 37,738 | 220,435 |
| 1968 | 5.6165 | 900.92 | 420.43 | 44,027 | 247,278 |
| 1969 | 5.4005 | 900.92 | 480.49 | 50,317 | 271,737 |
| 1970 | 5.1928 | 900.92 | 540.55 | 56,607 | 293,949 |
| 1971 | 4.9931 | 900.92 | 600.61 | 62,896 | 314,046 |
| 1972 | 4.8010 | 900.92 | 660.67 | 69,186 | 332,162 |
| 1973 | 4.6164 | 900.92 | 720.74 | 75,475 | 348,423 |
| 1974 | 4.4388 | 900.92 | 780.80 | 81,765 | 362,938 |
| 1975 | 4.2681 | 900.92 | 840.86 | 88,055 | 375,828 |
| 1976 | 4.1039 | 900.92 | 900.92 | 94,344 | 387,178 |
| 1977 | 3.9461 | 900.92 | 900.92 | 94,344 | 372,291 |
| 1978 | 3.7943 | 900.92 | 900.92 | 94,344 | 357,969 |
| 1979 | 3.6484 | 900.92 | 900.92 | 94,344 | 344,205 |
| 1980 | 3.5081 | 900.92 | 900.92 | 94,344 | 330,968 |
| 1981 | 3.3731 | 900.92 | 900.92 | 94,344 | 318,232 |
| 1982 | 3.2434 | 900.92 | 900.92 | 94,344 | 305,995 |
| 1983 | 3.1187 | 900.92 | 900.92 | 94,344 | 294,231 |
| 1984 | 2.9987 | 900.92 | 900.92 | 94,344 | 282,909 |
| 1985 | 2.8834 | 900.92 | 900.92 | 94,344 | 272,031 |
| 1986 | 2.7725 | 900.92 | 900.92 | 94,344 | 261,569 |
| 1987 | 2.6658 | 900.92 | 900.92 | 94,344 | 251,502 |
| 1988 | 2.5633 | 900.92 | 900.92 | 94,344 | 241,832 |
| 1989 | 2.4647 | 900.92 | 900.92 | 94,344 | 232,530 |
| 1990 | 2.3699 | 900.92 | 900.92 | 94,344 | 223,586 |
| 1991 | 2.2788 | 900.92 | 900.92 | 94,344 | 214,991 |
| 1992 | 2.1911 | 900.92 | 900.92 | 94,344 | 206,717 |
| 1993 | 2.1068 | 900.92 | 900.92 | 94,344 | 198,764 |
| 1994 | 2.0258 | 900.92 | 900.92 | 94,344 | 191,122 |
| 1995 | 1.9479 | 900.92 | 900.92 | 94,344 | 183,773 |
| 1996 | 1.8730 | 900.92 | 900.92 | 94,344 | 176,706 |
| 1997 | 1.8009 | 900.92 | 900.92 | 94,344 | 169,904 |
| 1998 | 1.7317 | 900.92 | 900.92 | 94,344 | 163,376 |
| 1999 | 1.6651 | 900.92 | 900.92 | 94,344 | 157,092 |
| 2000 | 1.6010 | 900.92 | 900.92 | 94,344 | 151,045 |
| 2001 | 1.5395 | 900.92 | 900.92 | 94,344 | 145,243 |
| 2002 | 1.4802 | 900.92 | 900.92 | 94,344 | 139,648 |
| 2003 | 1.4233 | 900.92 | 900.92 | 94,344 | 134,280 |
| 2004 | 1.3686 | 900.92 | 900.92 | 94,344 | 129,119 |
| 2005 | 1.3159 | 900.92 | 900.92 | 94,344 | 124,147 |
| 2006 | 1.2653 | 900.92 | 900.92 | 94,344 | 119,373 |
| 2007 | 1.2167 | 900.92 | 900.92 | 94,344 | 114,788 |
| 2008 | 1.1699 | 900.92 | 900.92 | 94,344 | 110,373 |
| 2009 | 1.1249 | 900.92 | 900.92 | 94,344 | 106,128 |
| 2010 | 1.0816 | 900.92 | 900.92 | 94,344 | 102,042 |
| 2011 | 1.0400 | 900.92 | 900.92 | 94,344 | 98,118 |
| 2012 | 1.0000 | 900.92 | 900.92 | 94,344 | 94,344 |
| 2013 | 0.9615 | 900.92 | 900.92 | 94,344 | 90,712 |
| 2014 | 0.9246 | 900.92 | 900.92 | 94,344 | 87,230 |
| 2015 | 0.8890 | 900.92 | 900.92 | 94,344 | 83,872 |
| 2016 | 0.8548 | 900.92 | 900.92 | 94,344 | 80,645 |
| 2017 | 0.8219 | 900.92 | 900.92 | 94,344 | 77,541 |
| 2018 | 0.7903 | 900.92 | 900.92 | 94,344 | 74,560 |
| 2019 | 0.7599 | 900.92 | 900.92 | 94,344 | 71,692 |
| 2020 | 0.7307 | 900.92 | 900.92 | 94,344 | 68,937 |
| 2021 | 0.7026 | 900.92 | 900.92 | 94,344 | 66,286 |
| 2022 | 0.6756 | 900.92 | 900.92 | 94,344 | 63,739 |
| 2023 | 0.6496 | 900.92 | 900.92 | 94,344 | 61,286 |
| 2024 | 0.6246 | 900.92 | 900.92 | 94,344 | 58,927 |
| 2025 | 0.6006 | 900.92 | 900.92 | 94,344 | 56,663 |
| 2026 | 0.5775 | 900.92 | 900.92 | 94,344 | 54,484 |
| 2027 | 0.5553 | 900.92 | 900.92 | 94,344 | 52,389 |

| | | | | | |
|------|--------|--------|--------|--------|------------|
| 2028 | 0.5339 | 900.92 | 900.92 | 94,344 | 50,370 |
| 2029 | 0.5134 | 900.92 | 900.92 | 94,344 | 48,436 |
| 2030 | 0.4936 | 900.92 | 900.92 | 94,344 | 46,568 |
| 2031 | 0.4746 | 900.92 | 900.92 | 94,344 | 44,776 |
| 2032 | 0.4564 | 900.92 | 900.92 | 94,344 | 43,059 |
| 2033 | 0.4388 | 900.92 | 900.92 | 94,344 | 41,398 |
| 2034 | 0.4220 | 900.92 | 900.92 | 94,344 | 39,813 |
| 2035 | 0.4057 | 900.92 | 900.92 | 94,344 | 38,275 |
| 2036 | 0.3901 | 900.92 | 900.92 | 94,344 | 36,804 |
| 2037 | 0.3751 | 900.92 | 900.92 | 94,344 | 35,388 |
| 2038 | 0.3607 | 900.92 | 900.92 | 94,344 | 34,030 |
| 2039 | 0.3468 | 900.92 | 900.92 | 94,344 | 32,718 |
| 2040 | 0.3335 | 900.92 | 900.92 | 94,344 | 31,464 |
| 2041 | 0.3207 | 900.92 | 900.92 | 94,344 | 30,256 |
| 合計 | | | | | 12,681,854 |

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

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

| | | |
|---------|---|-----------------|
| 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) 出典:「砂防便覧」平成20年版 | 5,600 |
| V: | 崩壊見込み量(m3/年) | 0.00 ~ 396.97 |
| A: | 事業対象区域面積(ha) | 900.92 ~ 900.92 |
| R: | 流域内崩壊率 出典:「治山全体調査」S42からS46 | 0.0031 |
| N: | 雨量比=50年確率日雨量/既往最大日雨量 出典:気象統計情報(気象庁) | 0.6673 |
| H: | 平均崩壊深(m) 出典:都道府県等への聞き取り | 2.1 |
| 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 |
|------|--------|----------|--------|-------|--------|
| 1961 | 7.3910 | | | | |
| 1962 | 7.1067 | 900.92 | 0.00 | 0 | 0 |
| 1963 | 6.8333 | 900.92 | 0.00 | 0 | 0 |
| 1964 | 6.5705 | 900.92 | 0.00 | 0 | 0 |
| 1965 | 6.3178 | 900.92 | 0.00 | 0 | 0 |
| 1966 | 6.0748 | 900.92 | 0.00 | 0 | 0 |
| 1967 | 5.8412 | 900.92 | 0.00 | 0 | 0 |
| 1968 | 5.6165 | 900.92 | 0.00 | 0 | 0 |
| 1969 | 5.4005 | 900.92 | 0.00 | 0 | 0 |
| 1970 | 5.1928 | 900.92 | 0.00 | 0 | 0 |
| 1971 | 4.9931 | 900.92 | 0.00 | 0 | 0 |
| 1972 | 4.8010 | 900.92 | 396.97 | 2,223 | 10,673 |
| 1973 | 4.6164 | 900.92 | 396.97 | 2,223 | 10,262 |
| 1974 | 4.4388 | 900.92 | 396.97 | 2,223 | 9,867 |
| 1975 | 4.2681 | 900.92 | 396.97 | 2,223 | 9,488 |
| 1976 | 4.1039 | 900.92 | 396.97 | 2,223 | 9,123 |
| 1977 | 3.9461 | 900.92 | 396.97 | 2,223 | 8,772 |
| 1978 | 3.7943 | 900.92 | 396.97 | 2,223 | 8,435 |
| 1979 | 3.6484 | 900.92 | 396.97 | 2,223 | 8,110 |
| 1980 | 3.5081 | 900.92 | 396.97 | 2,223 | 7,799 |
| 1981 | 3.3731 | 900.92 | 396.97 | 2,223 | 7,498 |
| 1982 | 3.2434 | 900.92 | 396.97 | 2,223 | 7,210 |
| 1983 | 3.1187 | 900.92 | 396.97 | 2,223 | 6,933 |
| 1984 | 2.9987 | 900.92 | 396.97 | 2,223 | 6,666 |
| 1985 | 2.8834 | 900.92 | 396.97 | 2,223 | 6,410 |
| 1986 | 2.7725 | 900.92 | 396.97 | 2,223 | 6,163 |
| 1987 | 2.6658 | 900.92 | 396.97 | 2,223 | 5,926 |
| 1988 | 2.5633 | 900.92 | 396.97 | 2,223 | 5,698 |
| 1989 | 2.4647 | 900.92 | 396.97 | 2,223 | 5,479 |
| 1990 | 2.3699 | 900.92 | 396.97 | 2,223 | 5,268 |
| 1991 | 2.2788 | 900.92 | 396.97 | 2,223 | 5,066 |
| 1992 | 2.1911 | 900.92 | 396.97 | 2,223 | 4,871 |
| 1993 | 2.1068 | 900.92 | 396.97 | 2,223 | 4,683 |
| 1994 | 2.0258 | 900.92 | 396.97 | 2,223 | 4,503 |
| 1995 | 1.9479 | 900.92 | 396.97 | 2,223 | 4,330 |
| 1996 | 1.8730 | 900.92 | 396.97 | 2,223 | 4,164 |
| 1997 | 1.8009 | 900.92 | 396.97 | 2,223 | 4,003 |
| 1998 | 1.7317 | 900.92 | 396.97 | 2,223 | 3,850 |
| 1999 | 1.6651 | 900.92 | 396.97 | 2,223 | 3,702 |
| 2000 | 1.6010 | 900.92 | 396.97 | 2,223 | 3,559 |
| 2001 | 1.5395 | 900.92 | 396.97 | 2,223 | 3,422 |
| 2002 | 1.4802 | 900.92 | 396.97 | 2,223 | 3,290 |
| 2003 | 1.4233 | 900.92 | 396.97 | 2,223 | 3,164 |
| 2004 | 1.3686 | 900.92 | 396.97 | 2,223 | 3,042 |
| 2005 | 1.3159 | 900.92 | 396.97 | 2,223 | 2,925 |
| 2006 | 1.2653 | 900.92 | 396.97 | 2,223 | 2,813 |
| 2007 | 1.2167 | 900.92 | 396.97 | 2,223 | 2,705 |
| 2008 | 1.1699 | 900.92 | 396.97 | 2,223 | 2,601 |
| 2009 | 1.1249 | 900.92 | 396.97 | 2,223 | 2,501 |
| 2010 | 1.0816 | 900.92 | 396.97 | 2,223 | 2,404 |
| 2011 | 1.0400 | 900.92 | 396.97 | 2,223 | 2,312 |
| 2012 | 1.0000 | 900.92 | 396.97 | 2,223 | 2,223 |
| 2013 | 0.9615 | 900.92 | 396.97 | 2,223 | 2,137 |
| 2014 | 0.9246 | 900.92 | 396.97 | 2,223 | 2,055 |
| 2015 | 0.8890 | 900.92 | 396.97 | 2,223 | 1,976 |
| 2016 | 0.8548 | 900.92 | 396.97 | 2,223 | 1,900 |
| 2017 | 0.8219 | 900.92 | 396.97 | 2,223 | 1,827 |
| 2018 | 0.7903 | 900.92 | 396.97 | 2,223 | 1,757 |
| 2019 | 0.7599 | 900.92 | 396.97 | 2,223 | 1,689 |

| | | | | | |
|------|--------|--------|--------|-------|---------|
| 2020 | 0.7307 | 900.92 | 396.97 | 2,223 | 1,624 |
| 2021 | 0.7026 | 900.92 | 396.97 | 2,223 | 1,562 |
| 2022 | 0.6756 | 900.92 | 396.97 | 2,223 | 1,502 |
| 2023 | 0.6496 | 900.92 | 396.97 | 2,223 | 1,444 |
| 2024 | 0.6246 | 900.92 | 396.97 | 2,223 | 1,388 |
| 2025 | 0.6006 | 900.92 | 396.97 | 2,223 | 1,335 |
| 2026 | 0.5775 | 900.92 | 396.97 | 2,223 | 1,284 |
| 2027 | 0.5553 | 900.92 | 396.97 | 2,223 | 1,234 |
| 2028 | 0.5339 | 900.92 | 396.97 | 2,223 | 1,187 |
| 2029 | 0.5134 | 900.92 | 396.97 | 2,223 | 1,141 |
| 2030 | 0.4936 | 900.92 | 396.97 | 2,223 | 1,097 |
| 2031 | 0.4746 | 900.92 | 396.97 | 2,223 | 1,055 |
| 2032 | 0.4564 | 900.92 | 396.97 | 2,223 | 1,015 |
| 2033 | 0.4388 | 900.92 | 396.97 | 2,223 | 975 |
| 2034 | 0.4220 | 900.92 | 396.97 | 2,223 | 938 |
| 2035 | 0.4057 | 900.92 | 396.97 | 2,223 | 902 |
| 2036 | 0.3901 | 900.92 | 396.97 | 2,223 | 867 |
| 2037 | 0.3751 | 900.92 | 396.97 | 2,223 | 834 |
| 2038 | 0.3607 | 900.92 | 396.97 | 2,223 | 802 |
| 2039 | 0.3468 | 900.92 | 396.97 | 2,223 | 771 |
| 2040 | 0.3335 | 900.92 | 396.97 | 2,223 | 741 |
| 2041 | 0.3207 | 900.92 | 396.97 | 2,223 | 713 |
| 合計 | | | | | 259,665 |

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

| | | | | |
|--------|--|--|---|--|
| U: | 二酸化炭素に関する原単位(円/CO2-ton) 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) | | 6,046 | |
| 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) (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の1/2を想定) | スギ ヒノキ マツ 広葉樹 0 0 | 88,130 57,436 2,704 15,596 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) 出典:人工林分密度管理図((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 ヒノキ マツ 広葉樹 0 0 | 176,261 114,872 5,409 31,192 0 0 | |
| Y: | 評価期間 | | 80 | |
| D: | 容積密度(t/m3) 出典:「日本国温室効果ガスインベントリ報告書」(2011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) | スギ ヒノキ マツ 広葉樹 0 0 | 0.314 0.407 0.458 0.639 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) 出典:「日本国温室効果ガスインベントリ報告書」(2011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) | 樹齢20年越 樹齢20年越 樹齢20年越 樹齢20年越 樹齢20年越 樹齢20年越 | スギ ヒノキ マツ 広葉樹 0 0 | 1.23 1.24 1.23 1.31 0 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) 出典:「日本国温室効果ガスインベントリ報告書」(2011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) | スギ ヒノキ マツ 広葉樹 0 0 | 0.25 0.26 0.26 0.26 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 | | マツ | | 広葉樹 | | 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 | | | | |
| 1961 | 7.3910 | | | | | | | | | | | | |
| 1962 | 7.1067 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1963 | 6.8333 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1964 | 6.5705 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1965 | 6.3178 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1966 | 6.0748 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1967 | 5.8412 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1968 | 5.6165 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1969 | 5.4005 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1970 | 5.1928 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1971 | 4.9931 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1972 | 4.8010 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1973 | 4.6164 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1974 | 4.4388 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1975 | 4.2681 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1976 | 4.1039 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1977 | 3.9461 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1978 | 3.7943 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1979 | 3.6484 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1980 | 3.5081 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1981 | 3.3731 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1982 | 3.2434 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1983 | 3.1187 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1984 | 2.9987 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1985 | 2.8834 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1986 | 2.7725 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1987 | 2.6658 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1988 | 2.5633 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1989 | 2.4647 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1990 | 2.3699 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1991 | 2.2788 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1992 | 2.1911 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1993 | 2.1068 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1994 | 2.0258 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |

| | | | | | | | | | | | | | |
|------|--------|----------|-------|--------|-------|-------|-----|--------|-------|--|--|--|--|
| 1995 | 1.9479 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1996 | 1.8730 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1997 | 1.8009 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1998 | 1.7317 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 1999 | 1.6651 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2000 | 1.6010 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2001 | 1.5395 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2002 | 1.4802 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2003 | 1.4233 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2004 | 1.3686 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2005 | 1.3159 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2006 | 1.2653 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2007 | 1.2167 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2008 | 1.1699 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2009 | 1.1249 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2010 | 1.0816 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2011 | 1.0400 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2012 | 1.0000 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2013 | 0.9615 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2014 | 0.9246 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2015 | 0.8890 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2016 | 0.8548 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2017 | 0.8219 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2018 | 0.7903 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2019 | 0.7599 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2020 | 0.7307 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2021 | 0.7026 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2022 | 0.6756 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2023 | 0.6496 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2024 | 0.6246 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2025 | 0.6006 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2026 | 0.5775 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2027 | 0.5553 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2028 | 0.5339 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2029 | 0.5134 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2030 | 0.4936 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2031 | 0.4746 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2032 | 0.4564 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2033 | 0.4388 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2034 | 0.4220 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2035 | 0.4057 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2036 | 0.3901 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2037 | 0.3751 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2038 | 0.3607 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2039 | 0.3468 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2040 | 0.3335 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 2041 | 0.3207 | 1,101.63 | 5,894 | 717.95 | 5,062 | 33.80 | 266 | 194.95 | 2,273 | | | | |
| 合計 | | | | | | | | | | | | | |

| | | 合計 | |
|------|--------|--------|--------|
| 年度 | 社会的割引率 | 効果額 | 現在価値化 |
| 1961 | 7.3910 | | |
| 1962 | 7.1067 | 13,495 | 95,905 |
| 1963 | 6.8333 | 13,495 | 92,215 |
| 1964 | 6.5705 | 13,495 | 88,669 |
| 1965 | 6.3178 | 13,495 | 85,259 |
| 1966 | 6.0748 | 13,495 | 81,979 |
| 1967 | 5.8412 | 13,495 | 78,827 |
| 1968 | 5.6165 | 13,495 | 75,795 |
| 1969 | 5.4005 | 13,495 | 72,880 |
| 1970 | 5.1928 | 13,495 | 70,077 |
| 1971 | 4.9931 | 13,495 | 67,382 |
| 1972 | 4.8010 | 13,495 | 64,789 |
| 1973 | 4.6164 | 13,495 | 62,298 |
| 1974 | 4.4388 | 13,495 | 59,902 |
| 1975 | 4.2681 | 13,495 | 57,598 |
| 1976 | 4.1039 | 13,495 | 55,382 |
| 1977 | 3.9461 | 13,495 | 53,253 |
| 1978 | 3.7943 | 13,495 | 51,204 |
| 1979 | 3.6484 | 13,495 | 49,235 |
| 1980 | 3.5081 | 13,495 | 47,342 |
| 1981 | 3.3731 | 13,495 | 45,520 |
| 1982 | 3.2434 | 13,495 | 43,770 |
| 1983 | 3.1187 | 13,495 | 42,087 |
| 1984 | 2.9987 | 13,495 | 40,467 |
| 1985 | 2.8834 | 13,495 | 38,911 |
| 1986 | 2.7725 | 13,495 | 37,415 |
| 1987 | 2.6658 | 13,495 | 35,975 |
| 1988 | 2.5633 | 13,495 | 34,592 |
| 1989 | 2.4647 | 13,495 | 33,261 |
| 1990 | 2.3699 | 13,495 | 31,982 |
| 1991 | 2.2788 | 13,495 | 30,752 |
| 1992 | 2.1911 | 13,495 | 29,569 |
| 1993 | 2.1068 | 13,495 | 28,431 |
| 1994 | 2.0258 | 13,495 | 27,338 |
| 1995 | 1.9479 | 13,495 | 26,287 |
| 1996 | 1.8730 | 13,495 | 25,276 |
| 1997 | 1.8009 | 13,495 | 24,303 |
| 1998 | 1.7317 | 13,495 | 23,369 |
| 1999 | 1.6651 | 13,495 | 22,471 |

| | | | |
|------|--------|--------|-----------|
| 2000 | 1.6010 | 13,495 | 21,605 |
| 2001 | 1.5395 | 13,495 | 20,776 |
| 2002 | 1.4802 | 13,495 | 19,975 |
| 2003 | 1.4233 | 13,495 | 19,207 |
| 2004 | 1.3686 | 13,495 | 18,469 |
| 2005 | 1.3159 | 13,495 | 17,758 |
| 2006 | 1.2653 | 13,495 | 17,075 |
| 2007 | 1.2167 | 13,495 | 16,419 |
| 2008 | 1.1699 | 13,495 | 15,788 |
| 2009 | 1.1249 | 13,495 | 15,181 |
| 2010 | 1.0816 | 13,495 | 14,596 |
| 2011 | 1.0400 | 13,495 | 14,035 |
| 2012 | 1.0000 | 13,495 | 13,495 |
| 2013 | 0.9615 | 13,495 | 12,975 |
| 2014 | 0.9246 | 13,495 | 12,477 |
| 2015 | 0.8890 | 13,495 | 11,997 |
| 2016 | 0.8548 | 13,495 | 11,536 |
| 2017 | 0.8219 | 13,495 | 11,092 |
| 2018 | 0.7903 | 13,495 | 10,665 |
| 2019 | 0.7599 | 13,495 | 10,255 |
| 2020 | 0.7307 | 13,495 | 9,861 |
| 2021 | 0.7026 | 13,495 | 9,482 |
| 2022 | 0.6756 | 13,495 | 9,117 |
| 2023 | 0.6496 | 13,495 | 8,766 |
| 2024 | 0.6246 | 13,495 | 8,429 |
| 2025 | 0.6006 | 13,495 | 8,105 |
| 2026 | 0.5775 | 13,495 | 7,793 |
| 2027 | 0.5553 | 13,495 | 7,494 |
| 2028 | 0.5339 | 13,495 | 7,205 |
| 2029 | 0.5134 | 13,495 | 6,928 |
| 2030 | 0.4936 | 13,495 | 6,661 |
| 2031 | 0.4746 | 13,495 | 6,405 |
| 2032 | 0.4564 | 13,495 | 6,159 |
| 2033 | 0.4388 | 13,495 | 5,922 |
| 2034 | 0.4220 | 13,495 | 5,695 |
| 2035 | 0.4057 | 13,495 | 5,475 |
| 2036 | 0.3901 | 13,495 | 5,264 |
| 2037 | 0.3751 | 13,495 | 5,062 |
| 2038 | 0.3607 | 13,495 | 4,868 |
| 2039 | 0.3468 | 13,495 | 4,680 |
| 2040 | 0.3335 | 13,495 | 4,501 |
| 2041 | 0.3207 | 13,495 | 4,328 |
| 合計 | | | 2,385,343 |

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

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

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

| | | |
|--------|---|-----------------|
| U: | 二酸化炭素に関する原単位(円/t-CO2) 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) | 6,046 |
| 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 ②評価期間内に侵食深が30cmに達しない場合は評価期間 ①事業対象区域 | 80 |
| A: | ①事業対象区域面積(ha) 又は ②保全効果区域面積(ha) | 900.92 ~ 900.92 |
| s: | 単位面積当たりの土壌平均炭素蓄積量(t-C/ha) 出典:「日本国温室効果ガスインベントリ報告書」(2011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) | 85.31 |
| 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) 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 0.200 |
| e2:: | 事業を実施した場合の侵食深(cm/年) 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 0.013 |
| 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 | | | |
| 1961 | 7.3910 | | | | | | | |
| 1962 | 7.1067 | 900.92 | 60.06 | 212 | 1,507 | | | |
| 1963 | 6.8333 | 900.92 | 120.12 | 423 | 2,890 | | | |
| 1964 | 6.5705 | 900.92 | 180.18 | 635 | 4,172 | | | |
| 1965 | 6.3178 | 900.92 | 240.25 | 847 | 5,351 | | | |
| 1966 | 6.0748 | 900.92 | 300.31 | 1,059 | 6,433 | | | |
| 1967 | 5.8412 | 900.92 | 360.37 | 1,270 | 7,418 | | | |
| 1968 | 5.6165 | 900.92 | 420.43 | 1,482 | 8,324 | | | |
| 1969 | 5.4005 | 900.92 | 480.49 | 1,694 | 9,148 | | | |
| 1970 | 5.1928 | 900.92 | 540.55 | 1,905 | 9,892 | | | |
| 1971 | 4.9931 | 900.92 | 600.61 | 2,117 | 10,570 | | | |
| 1972 | 4.8010 | 900.92 | 660.67 | 2,329 | 11,182 | | | |
| 1973 | 4.6164 | 900.92 | 720.74 | 2,541 | 11,730 | | | |
| 1974 | 4.4388 | 900.92 | 780.80 | 2,752 | 12,216 | | | |
| 1975 | 4.2681 | 900.92 | 840.86 | 2,964 | 12,651 | | | |
| 1976 | 4.1039 | 900.92 | 900.92 | 3,176 | 13,034 | | | |
| 1977 | 3.9461 | 900.92 | 900.92 | 3,176 | 12,533 | | | |
| 1978 | 3.7943 | 900.92 | 900.92 | 3,176 | 12,051 | | | |
| 1979 | 3.6484 | 900.92 | 900.92 | 3,176 | 11,587 | | | |
| 1980 | 3.5081 | 900.92 | 900.92 | 3,176 | 11,142 | | | |
| 1981 | 3.3731 | 900.92 | 900.92 | 3,176 | 10,713 | | | |
| 1982 | 3.2434 | 900.92 | 900.92 | 3,176 | 10,301 | | | |
| 1983 | 3.1187 | 900.92 | 900.92 | 3,176 | 9,905 | | | |
| 1984 | 2.9987 | 900.92 | 900.92 | 3,176 | 9,524 | | | |
| 1985 | 2.8834 | 900.92 | 900.92 | 3,176 | 9,158 | | | |
| 1986 | 2.7725 | 900.92 | 900.92 | 3,176 | 8,805 | | | |
| 1987 | 2.6658 | 900.92 | 900.92 | 3,176 | 8,467 | | | |
| 1988 | 2.5633 | 900.92 | 900.92 | 3,176 | 8,141 | | | |
| 1989 | 2.4647 | 900.92 | 900.92 | 3,176 | 7,828 | | | |
| 1990 | 2.3699 | 900.92 | 900.92 | 3,176 | 7,527 | | | |
| 1991 | 2.2788 | 900.92 | 900.92 | 3,176 | 7,237 | | | |
| 1992 | 2.1911 | 900.92 | 900.92 | 3,176 | 6,959 | | | |
| 1993 | 2.1068 | 900.92 | 900.92 | 3,176 | 6,691 | | | |
| 1994 | 2.0258 | 900.92 | 900.92 | 3,176 | 6,434 | | | |
| 1995 | 1.9479 | 900.92 | 900.92 | 3,176 | 6,187 | | | |
| 1996 | 1.8730 | 900.92 | 900.92 | 3,176 | 5,949 | | | |
| 1997 | 1.8009 | 900.92 | 900.92 | 3,176 | 5,720 | | | |
| 1998 | 1.7317 | 900.92 | 900.92 | 3,176 | 5,500 | | | |
| 1999 | 1.6651 | 900.92 | 900.92 | 3,176 | 5,288 | | | |
| 2000 | 1.6010 | 900.92 | 900.92 | 3,176 | 5,085 | | | |

| | | | | | | | | |
|------|--------|--------|--------|-------|---------|--|--|---|
| 2001 | 1.5395 | 900.92 | 900.92 | 3,176 | 4,889 | | | |
| 2002 | 1.4802 | 900.92 | 900.92 | 3,176 | 4,701 | | | |
| 2003 | 1.4233 | 900.92 | 900.92 | 3,176 | 4,520 | | | |
| 2004 | 1.3686 | 900.92 | 900.92 | 3,176 | 4,347 | | | |
| 2005 | 1.3159 | 900.92 | 900.92 | 3,176 | 4,179 | | | |
| 2006 | 1.2653 | 900.92 | 900.92 | 3,176 | 4,019 | | | |
| 2007 | 1.2167 | 900.92 | 900.92 | 3,176 | 3,864 | | | |
| 2008 | 1.1699 | 900.92 | 900.92 | 3,176 | 3,716 | | | |
| 2009 | 1.1249 | 900.92 | 900.92 | 3,176 | 3,573 | | | |
| 2010 | 1.0816 | 900.92 | 900.92 | 3,176 | 3,435 | | | |
| 2011 | 1.0400 | 900.92 | 900.92 | 3,176 | 3,303 | | | |
| 2012 | 1.0000 | 900.92 | 900.92 | 3,176 | 3,176 | | | |
| 2013 | 0.9615 | 900.92 | 900.92 | 3,176 | 3,054 | | | |
| 2014 | 0.9246 | 900.92 | 900.92 | 3,176 | 2,937 | | | |
| 2015 | 0.8890 | 900.92 | 900.92 | 3,176 | 2,823 | | | |
| 2016 | 0.8548 | 900.92 | 900.92 | 3,176 | 2,715 | | | |
| 2017 | 0.8219 | 900.92 | 900.92 | 3,176 | 2,610 | | | |
| 2018 | 0.7903 | 900.92 | 900.92 | 3,176 | 2,510 | | | |
| 2019 | 0.7599 | 900.92 | 900.92 | 3,176 | 2,413 | | | |
| 2020 | 0.7307 | 900.92 | 900.92 | 3,176 | 2,321 | | | |
| 2021 | 0.7026 | 900.92 | 900.92 | 3,176 | 2,231 | | | |
| 2022 | 0.6756 | 900.92 | 900.92 | 3,176 | 2,146 | | | |
| 2023 | 0.6496 | 900.92 | 900.92 | 3,176 | 2,063 | | | |
| 2024 | 0.6246 | 900.92 | 900.92 | 3,176 | 1,984 | | | |
| 2025 | 0.6006 | 900.92 | 900.92 | 3,176 | 1,908 | | | |
| 2026 | 0.5775 | 900.92 | 900.92 | 3,176 | 1,834 | | | |
| 2027 | 0.5553 | 900.92 | 900.92 | 3,176 | 1,764 | | | |
| 2028 | 0.5339 | 900.92 | 900.92 | 3,176 | 1,696 | | | |
| 2029 | 0.5134 | 900.92 | 900.92 | 3,176 | 1,631 | | | |
| 2030 | 0.4936 | 900.92 | 900.92 | 3,176 | 1,568 | | | |
| 2031 | 0.4746 | 900.92 | 900.92 | 3,176 | 1,507 | | | |
| 2032 | 0.4564 | 900.92 | 900.92 | 3,176 | 1,450 | | | |
| 2033 | 0.4388 | 900.92 | 900.92 | 3,176 | 1,394 | | | |
| 2034 | 0.4220 | 900.92 | 900.92 | 3,176 | 1,340 | | | |
| 2035 | 0.4057 | 900.92 | 900.92 | 3,176 | 1,289 | | | |
| 2036 | 0.3901 | 900.92 | 900.92 | 3,176 | 1,239 | | | |
| 2037 | 0.3751 | 900.92 | 900.92 | 3,176 | 1,191 | | | |
| 2038 | 0.3607 | 900.92 | 900.92 | 3,176 | 1,146 | | | |
| 2039 | 0.3468 | 900.92 | 900.92 | 3,176 | 1,101 | | | |
| 2040 | 0.3335 | 900.92 | 900.92 | 3,176 | 1,059 | | | |
| 2041 | 0.3207 | 900.92 | 900.92 | 3,176 | 1,019 | | | |
| 合計 | | | | | 426,915 | | | 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 ~ 141,008.51 |
| ヒノキ | 0.00 ~ 86,153.76 |
| マツ | 0.00 ~ 3,921.31 |
| 広葉樹 | 0.00 ~ 31,191.73 |
| 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 | 2,344 |
| ヒノキ | 7,223 |
| マツ | 1,657 |
| 広葉樹 | 0 |
| 0 | 0 |
| 0 | |

| 年度 | 社会的割引率 | スギ | | ヒノキ | | マツ | | 広葉樹 | | 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 | | |
| 1961 | 7.3910 | | | | | | | | | | |
| 1962 | 7.1067 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1963 | 6.8333 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1964 | 6.5705 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1965 | 6.3178 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1966 | 6.0748 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1967 | 5.8412 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1968 | 5.6165 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1969 | 5.4005 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1970 | 5.1928 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1971 | 4.9931 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1972 | 4.8010 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1973 | 4.6164 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1974 | 4.4388 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1975 | 4.2681 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1976 | 4.1039 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1977 | 3.9461 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1978 | 3.7943 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1979 | 3.6484 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1980 | 3.5081 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1981 | 3.3731 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1982 | 3.2434 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1983 | 3.1187 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1984 | 2.9987 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1985 | 2.8834 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1986 | 2.7725 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1987 | 2.6658 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1988 | 2.5633 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1989 | 2.4647 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1990 | 2.3699 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1991 | 2.2788 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1992 | 2.1911 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1993 | 2.1068 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1994 | 2.0258 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1995 | 1.9479 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1996 | 1.8730 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1997 | 1.8009 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1998 | 1.7317 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 1999 | 1.6651 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2000 | 1.6010 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2001 | 1.5395 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2002 | 1.4802 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2003 | 1.4233 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2004 | 1.3686 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2005 | 1.3159 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2006 | 1.2653 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2007 | 1.2167 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2008 | 1.1699 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2009 | 1.1249 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2010 | 1.0816 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2011 | 1.0400 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2012 | 1.0000 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2013 | 0.9615 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2014 | 0.9246 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2015 | 0.8890 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2016 | 0.8548 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2017 | 0.8219 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2018 | 0.7903 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2019 | 0.7599 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2020 | 0.7307 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |

| | | | | | | | | | | | |
|------|--------|------------|---------|-----------|---------|----------|-------|-----------|---|--|--|
| 2021 | 0.7026 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2022 | 0.6756 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2023 | 0.6496 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2024 | 0.6246 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2025 | 0.6006 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2026 | 0.5775 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2027 | 0.5553 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2028 | 0.5339 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2029 | 0.5134 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2030 | 0.4936 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2031 | 0.4746 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2032 | 0.4564 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2033 | 0.4388 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2034 | 0.4220 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2035 | 0.4057 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2036 | 0.3901 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2037 | 0.3751 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2038 | 0.3607 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2039 | 0.3468 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2040 | 0.3335 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | | |
| 2041 | 0.3207 | 141,008.51 | 330,524 | 86,153.76 | 622,289 | 3,921.31 | 6,498 | 31,191.73 | 0 | | |
| 合計 | | | | | | | | | | | |

| 年度 | 社会的割引率 | 事業効果材積 | 合計 | | |
|------|--------|--------|-----|-----|-------|
| | | | 効果額 | 効果額 | 現在価値化 |
| 1961 | 7.3910 | | | 0 | 0 |
| 1962 | 7.1067 | | | 0 | 0 |
| 1963 | 6.8333 | | | 0 | 0 |
| 1964 | 6.5705 | | | 0 | 0 |
| 1965 | 6.3178 | | | 0 | 0 |
| 1966 | 6.0748 | | | 0 | 0 |
| 1967 | 5.8412 | | | 0 | 0 |
| 1968 | 5.6165 | | | 0 | 0 |
| 1969 | 5.4005 | | | 0 | 0 |
| 1970 | 5.1928 | | | 0 | 0 |
| 1971 | 4.9931 | | | 0 | 0 |
| 1972 | 4.8010 | | | 0 | 0 |
| 1973 | 4.6164 | | | 0 | 0 |
| 1974 | 4.4388 | | | 0 | 0 |
| 1975 | 4.2681 | | | 0 | 0 |
| 1976 | 4.1039 | | | 0 | 0 |
| 1977 | 3.9461 | | | 0 | 0 |
| 1978 | 3.7943 | | | 0 | 0 |
| 1979 | 3.6484 | | | 0 | 0 |
| 1980 | 3.5081 | | | 0 | 0 |
| 1981 | 3.3731 | | | 0 | 0 |
| 1982 | 3.2434 | | | 0 | 0 |
| 1983 | 3.1187 | | | 0 | 0 |
| 1984 | 2.9987 | | | 0 | 0 |
| 1985 | 2.8834 | | | 0 | 0 |
| 1986 | 2.7725 | | | 0 | 0 |
| 1987 | 2.6658 | | | 0 | 0 |
| 1988 | 2.5633 | | | 0 | 0 |
| 1989 | 2.4647 | | | 0 | 0 |
| 1990 | 2.3699 | | | 0 | 0 |
| 1991 | 2.2788 | | | 0 | 0 |
| 1992 | 2.1911 | | | 0 | 0 |
| 1993 | 2.1068 | | | 0 | 0 |
| 1994 | 2.0258 | | | 0 | 0 |
| 1995 | 1.9479 | | | 0 | 0 |
| 1996 | 1.8730 | | | 0 | 0 |
| 1997 | 1.8009 | | | 0 | 0 |
| 1998 | 1.7317 | | | 0 | 0 |
| 1999 | 1.6651 | | | 0 | 0 |
| 2000 | 1.6010 | | | 0 | 0 |
| 2001 | 1.5395 | | | 0 | 0 |
| 2002 | 1.4802 | | | 0 | 0 |
| 2003 | 1.4233 | | | 0 | 0 |
| 2004 | 1.3686 | | | 0 | 0 |
| 2005 | 1.3159 | | | 0 | 0 |
| 2006 | 1.2653 | | | 0 | 0 |
| 2007 | 1.2167 | | | 0 | 0 |
| 2008 | 1.1699 | | | 0 | 0 |
| 2009 | 1.1249 | | | 0 | 0 |
| 2010 | 1.0816 | | | 0 | 0 |
| 2011 | 1.0400 | | | 0 | 0 |
| 2012 | 1.0000 | | | 0 | 0 |
| 2013 | 0.9615 | | | 0 | 0 |
| 2014 | 0.9246 | | | 0 | 0 |
| 2015 | 0.8890 | | | 0 | 0 |
| 2016 | 0.8548 | | | 0 | 0 |
| 2017 | 0.8219 | | | 0 | 0 |
| 2018 | 0.7903 | | | 0 | 0 |
| 2019 | 0.7599 | | | 0 | 0 |
| 2020 | 0.7307 | | | 0 | 0 |
| 2021 | 0.7026 | | | 0 | 0 |
| 2022 | 0.6756 | | | 0 | 0 |
| 2023 | 0.6496 | | | 0 | 0 |
| 2024 | 0.6246 | | | 0 | 0 |
| 2025 | 0.6006 | | | 0 | 0 |

| | | | | | |
|------|--------|--|--|---------|---------|
| 2026 | 0.5775 | | | 0 | 0 |
| 2027 | 0.5553 | | | 0 | 0 |
| 2028 | 0.5339 | | | 0 | 0 |
| 2029 | 0.5134 | | | 0 | 0 |
| 2030 | 0.4936 | | | 0 | 0 |
| 2031 | 0.4746 | | | 0 | 0 |
| 2032 | 0.4564 | | | 0 | 0 |
| 2033 | 0.4388 | | | 0 | 0 |
| 2034 | 0.4220 | | | 0 | 0 |
| 2035 | 0.4057 | | | 0 | 0 |
| 2036 | 0.3901 | | | 0 | 0 |
| 2037 | 0.3751 | | | 0 | 0 |
| 2038 | 0.3607 | | | 0 | 0 |
| 2039 | 0.3468 | | | 0 | 0 |
| 2040 | 0.3335 | | | 0 | 0 |
| 2041 | 0.3207 | | | 959,311 | 307,651 |
| 合計 | | | | | 307,651 |