

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： 馬淵川広域流域 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 7 | | × 7.3910 | | H 3 5 | 0 | × 0.6756 | 0 |
| S 3 8 | 1,094,612 | × 7.1067 | 7,779,079 | H 3 6 | 0 | × 0.6496 | 0 |
| S 3 9 | 278,561 | × 6.8333 | 1,903,491 | H 3 7 | 0 | × 0.6246 | 0 |
| S 4 0 | 208,474 | × 6.5705 | 1,369,778 | H 3 8 | 0 | × 0.6006 | 0 |
| S 4 1 | 156,840 | × 6.3178 | 990,884 | H 3 9 | 0 | × 0.5775 | 0 |
| S 4 2 | 109,488 | × 6.0748 | 665,118 | H 4 0 | 0 | × 0.5553 | 0 |
| S 4 3 | 107,298 | × 5.8412 | 626,749 | H 4 1 | 0 | × 0.5339 | 0 |
| S 4 4 | 0 | × 5.6165 | 0 | H 4 2 | 0 | × 0.5134 | 0 |
| S 4 5 | 43,613 | × 5.4005 | 235,532 | H 4 3 | 0 | × 0.4936 | 0 |
| S 4 6 | 0 | × 5.1928 | 0 | H 4 4 | 0 | × 0.4746 | 0 |
| S 4 7 | 38,726 | × 4.9931 | 193,363 | H 4 5 | 0 | × 0.4564 | 0 |
| S 4 8 | 4,960 | × 4.8010 | 23,813 | H 4 6 | 0 | × 0.4388 | 0 |
| S 4 9 | 117,209 | × 4.6164 | 541,084 | H 4 7 | 0 | × 0.4220 | 0 |
| S 5 0 | 0 | × 4.4388 | 0 | H 4 8 | 0 | × 0.4057 | 0 |
| S 5 1 | 180,706 | × 4.2681 | 771,271 | H 4 9 | 0 | × 0.3901 | 0 |
| S 5 2 | 0 | × 4.1039 | 0 | H 5 0 | 0 | × 0.3751 | 0 |
| S 5 3 | 25,806 | × 3.9461 | 101,833 | H 5 1 | 0 | × 0.3607 | 0 |
| S 5 4 | 0 | × 3.7943 | 0 | H 5 2 | 0 | × 0.3468 | 0 |
| S 5 5 | 45,726 | × 3.6484 | 166,827 | H 5 3 | 0 | × 0.3335 | 0 |
| S 5 6 | 0 | × 3.5081 | 0 | H 5 4 | 0 | × 0.3207 | 0 |
| S 5 7 | 93,057 | × 3.3731 | 313,891 | | | | |
| S 5 8 | 68,516 | × 3.2434 | 222,225 | | | | |
| S 5 9 | 0 | × 3.1187 | 0 | | | | |
| S 6 0 | 0 | × 2.9987 | 0 | | | | |
| S 6 1 | 0 | × 2.8834 | 0 | | | | |
| S 6 2 | 0 | × 2.7725 | 0 | | | | |
| S 6 3 | 131,586 | × 2.6658 | 350,782 | | | | |
| H 1 | 0 | × 2.5633 | 0 | | | | |
| H 2 | 0 | × 2.4647 | 0 | | | | |
| H 3 | 0 | × 2.3699 | 0 | | | | |
| H 4 | 0 | × 2.2788 | 0 | | | | |
| H 5 | 0 | × 2.1911 | 0 | | | | |
| H 6 | 0 | × 2.1068 | 0 | | | | |
| H 7 | 0 | × 2.0258 | 0 | | | | |
| H 8 | 0 | × 1.9479 | 0 | | | | |
| H 9 | 0 | × 1.8730 | 0 | | | | |
| H 1 0 | 0 | × 1.8009 | 0 | | | | |
| H 1 1 | 0 | × 1.7317 | 0 | | | | |
| H 1 2 | 0 | × 1.6651 | 0 | | | | |
| H 1 3 | 0 | × 1.6010 | 0 | | | | |
| H 1 4 | 0 | × 1.5395 | 0 | | | | |
| H 1 5 | 0 | × 1.4802 | 0 | | | | |
| 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 | 0 | × 1.2167 | 0 | | | | |
| 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 | 18,629 | × 0.8219 | 15,311 | | | | |
| H 3 1 | 0 | × 0.7903 | 0 | | | | |
| H 3 2 | 0 | × 0.7599 | 0 | | | | |
| H 3 3 | 0 | × 0.7307 | 0 | | | | |
| H 3 4 | 0 | × 0.7026 | 0 | | | | |
| | | | | 合 計 | | | 16,271,031 |
| | | | | C = | | | 16,271,031 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) 54.32
出典:気象統計情報(気象庁)
- A: 事業対象区域面積(ha) 695.54 ~ 695.54
- 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 |
|------|--------|----------|--------|--------|---------|
| 1962 | 7.3910 | | | | |
| 1963 | 7.1067 | 695.54 | 46.37 | 2,463 | 17,504 |
| 1964 | 6.8333 | 695.54 | 92.74 | 4,926 | 33,661 |
| 1965 | 6.5705 | 695.54 | 139.11 | 7,388 | 48,543 |
| 1966 | 6.3178 | 695.54 | 185.48 | 9,851 | 62,237 |
| 1967 | 6.0748 | 695.54 | 231.85 | 12,314 | 74,805 |
| 1968 | 5.8412 | 695.54 | 278.22 | 14,777 | 86,315 |
| 1969 | 5.6165 | 695.54 | 324.59 | 17,240 | 96,828 |
| 1970 | 5.4005 | 695.54 | 370.95 | 19,703 | 106,406 |
| 1971 | 5.1928 | 695.54 | 417.32 | 22,165 | 115,098 |
| 1972 | 4.9931 | 695.54 | 463.69 | 24,628 | 122,970 |
| 1973 | 4.8010 | 695.54 | 510.06 | 27,091 | 130,064 |
| 1974 | 4.6164 | 695.54 | 556.43 | 29,554 | 136,433 |
| 1975 | 4.4388 | 695.54 | 602.80 | 32,017 | 142,117 |
| 1976 | 4.2681 | 695.54 | 649.17 | 34,479 | 147,160 |
| 1977 | 4.1039 | 695.54 | 695.54 | 36,942 | 151,606 |
| 1978 | 3.9461 | 695.54 | 695.54 | 36,942 | 145,777 |
| 1979 | 3.7943 | 695.54 | 695.54 | 36,942 | 140,169 |
| 1980 | 3.6484 | 695.54 | 695.54 | 36,942 | 134,779 |
| 1981 | 3.5081 | 695.54 | 695.54 | 36,942 | 129,596 |
| 1982 | 3.3731 | 695.54 | 695.54 | 36,942 | 124,609 |
| 1983 | 3.2434 | 695.54 | 695.54 | 36,942 | 119,818 |
| 1984 | 3.1187 | 695.54 | 695.54 | 36,942 | 115,211 |
| 1985 | 2.9987 | 695.54 | 695.54 | 36,942 | 110,778 |
| 1986 | 2.8834 | 695.54 | 695.54 | 36,942 | 106,519 |
| 1987 | 2.7725 | 695.54 | 695.54 | 36,942 | 102,422 |
| 1988 | 2.6658 | 695.54 | 695.54 | 36,942 | 98,480 |
| 1989 | 2.5633 | 695.54 | 695.54 | 36,942 | 94,693 |
| 1990 | 2.4647 | 695.54 | 695.54 | 36,942 | 91,051 |
| 1991 | 2.3699 | 695.54 | 695.54 | 36,942 | 87,549 |
| 1992 | 2.2788 | 695.54 | 695.54 | 36,942 | 84,183 |
| 1993 | 2.1911 | 695.54 | 695.54 | 36,942 | 80,944 |
| 1994 | 2.1068 | 695.54 | 695.54 | 36,942 | 77,829 |
| 1995 | 2.0258 | 695.54 | 695.54 | 36,942 | 74,837 |
| 1996 | 1.9479 | 695.54 | 695.54 | 36,942 | 71,959 |
| 1997 | 1.8730 | 695.54 | 695.54 | 36,942 | 69,192 |
| 1998 | 1.8009 | 695.54 | 695.54 | 36,942 | 66,529 |
| 1999 | 1.7317 | 695.54 | 695.54 | 36,942 | 63,972 |
| 2000 | 1.6651 | 695.54 | 695.54 | 36,942 | 61,512 |
| 2001 | 1.6010 | 695.54 | 695.54 | 36,942 | 59,144 |
| 2002 | 1.5395 | 695.54 | 695.54 | 36,942 | 56,872 |
| 2003 | 1.4802 | 695.54 | 695.54 | 36,942 | 54,682 |
| 2004 | 1.4233 | 695.54 | 695.54 | 36,942 | 52,580 |
| 2005 | 1.3686 | 695.54 | 695.54 | 36,942 | 50,559 |
| 2006 | 1.3159 | 695.54 | 695.54 | 36,942 | 48,612 |
| 2007 | 1.2653 | 695.54 | 695.54 | 36,942 | 46,743 |
| 2008 | 1.2167 | 695.54 | 695.54 | 36,942 | 44,947 |
| 2009 | 1.1699 | 695.54 | 695.54 | 36,942 | 43,218 |
| 2010 | 1.1249 | 695.54 | 695.54 | 36,942 | 41,556 |
| 2011 | 1.0816 | 695.54 | 695.54 | 36,942 | 39,956 |
| 2012 | 1.0400 | 695.54 | 695.54 | 36,942 | 38,420 |
| 2013 | 1.0000 | 695.54 | 695.54 | 36,942 | 36,942 |
| 2014 | 0.9615 | 695.54 | 695.54 | 36,942 | 35,520 |
| 2015 | 0.9246 | 695.54 | 695.54 | 36,942 | 34,157 |
| 2016 | 0.8890 | 695.54 | 695.54 | 36,942 | 32,841 |
| 2017 | 0.8548 | 695.54 | 695.54 | 36,942 | 31,578 |
| 2018 | 0.8219 | 695.54 | 695.54 | 36,942 | 30,363 |
| 2019 | 0.7903 | 695.54 | 695.54 | 36,942 | 29,195 |
| 2020 | 0.7599 | 695.54 | 695.54 | 36,942 | 28,072 |
| 2021 | 0.7307 | 695.54 | 695.54 | 36,942 | 26,994 |
| 2022 | 0.7026 | 695.54 | 695.54 | 36,942 | 25,955 |
| 2023 | 0.6756 | 695.54 | 695.54 | 36,942 | 24,958 |
| 2024 | 0.6496 | 695.54 | 695.54 | 36,942 | 23,998 |

| | | | | | |
|------|--------|--------|--------|--------|-----------|
| 2025 | 0.6246 | 695.54 | 695.54 | 36,942 | 23,074 |
| 2026 | 0.6006 | 695.54 | 695.54 | 36,942 | 22,187 |
| 2027 | 0.5775 | 695.54 | 695.54 | 36,942 | 21,334 |
| 2028 | 0.5553 | 695.54 | 695.54 | 36,942 | 20,514 |
| 2029 | 0.5339 | 695.54 | 695.54 | 36,942 | 19,723 |
| 2030 | 0.5134 | 695.54 | 695.54 | 36,942 | 18,966 |
| 2031 | 0.4936 | 695.54 | 695.54 | 36,942 | 18,235 |
| 2032 | 0.4746 | 695.54 | 695.54 | 36,942 | 17,533 |
| 2033 | 0.4564 | 695.54 | 695.54 | 36,942 | 16,860 |
| 2034 | 0.4388 | 695.54 | 695.54 | 36,942 | 16,210 |
| 2035 | 0.4220 | 695.54 | 695.54 | 36,942 | 15,590 |
| 2036 | 0.4057 | 695.54 | 695.54 | 36,942 | 14,987 |
| 2037 | 0.3901 | 695.54 | 695.54 | 36,942 | 14,411 |
| 2038 | 0.3751 | 695.54 | 695.54 | 36,942 | 13,857 |
| 2039 | 0.3607 | 695.54 | 695.54 | 36,942 | 13,325 |
| 2040 | 0.3468 | 695.54 | 695.54 | 36,942 | 12,811 |
| 2041 | 0.3335 | 695.54 | 695.54 | 36,942 | 12,320 |
| 2042 | 0.3207 | 695.54 | 695.54 | 36,942 | 11,847 |
| 合計 | | | | | 4,965,801 |

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

- A: 事業対象区域面積 (ha) 695.54 ~ 695.54
- P: 年間平均降雨量 (mm/年) 1,135
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 |
|-------|--------|----------|--------|--------|--------|
| 1,962 | 7.3910 | | | | |
| 1,963 | 7.1067 | 695.54 | 46.37 | 866 | 6,154 |
| 1,964 | 6.8333 | 695.54 | 92.74 | 1,732 | 11,835 |
| 1,965 | 6.5705 | 695.54 | 139.11 | 2,599 | 17,077 |
| 1,966 | 6.3178 | 695.54 | 185.48 | 3,465 | 21,891 |
| 1,967 | 6.0748 | 695.54 | 231.85 | 4,331 | 26,310 |
| 1,968 | 5.8412 | 695.54 | 278.22 | 5,197 | 30,357 |
| 1,969 | 5.6165 | 695.54 | 324.59 | 6,063 | 34,053 |
| 1,970 | 5.4005 | 695.54 | 370.95 | 6,929 | 37,420 |
| 1,971 | 5.1928 | 695.54 | 417.32 | 7,796 | 40,483 |
| 1,972 | 4.9931 | 695.54 | 463.69 | 8,662 | 43,250 |
| 1,973 | 4.8010 | 695.54 | 510.06 | 9,528 | 45,744 |
| 1,974 | 4.6164 | 695.54 | 556.43 | 10,394 | 47,983 |
| 1,975 | 4.4388 | 695.54 | 602.80 | 11,260 | 49,981 |
| 1,976 | 4.2681 | 695.54 | 649.17 | 12,127 | 51,759 |
| 1,977 | 4.1039 | 695.54 | 695.54 | 12,993 | 53,322 |
| 1,978 | 3.9461 | 695.54 | 695.54 | 12,993 | 51,272 |
| 1,979 | 3.7943 | 695.54 | 695.54 | 12,993 | 49,299 |
| 1,980 | 3.6484 | 695.54 | 695.54 | 12,993 | 47,404 |
| 1,981 | 3.5081 | 695.54 | 695.54 | 12,993 | 45,581 |
| 1,982 | 3.3731 | 695.54 | 695.54 | 12,993 | 43,827 |
| 1,983 | 3.2434 | 695.54 | 695.54 | 12,993 | 42,141 |
| 1,984 | 3.1187 | 695.54 | 695.54 | 12,993 | 40,521 |
| 1,985 | 2.9987 | 695.54 | 695.54 | 12,993 | 38,962 |
| 1,986 | 2.8834 | 695.54 | 695.54 | 12,993 | 37,464 |
| 1,987 | 2.7725 | 695.54 | 695.54 | 12,993 | 36,023 |
| 1,988 | 2.6658 | 695.54 | 695.54 | 12,993 | 34,637 |
| 1,989 | 2.5633 | 695.54 | 695.54 | 12,993 | 33,305 |
| 1,990 | 2.4647 | 695.54 | 695.54 | 12,993 | 32,024 |
| 1,991 | 2.3699 | 695.54 | 695.54 | 12,993 | 30,792 |
| 1,992 | 2.2788 | 695.54 | 695.54 | 12,993 | 29,608 |
| 1,993 | 2.1911 | 695.54 | 695.54 | 12,993 | 28,469 |
| 1,994 | 2.1068 | 695.54 | 695.54 | 12,993 | 27,374 |
| 1,995 | 2.0258 | 695.54 | 695.54 | 12,993 | 26,321 |
| 1,996 | 1.9479 | 695.54 | 695.54 | 12,993 | 25,309 |
| 1,997 | 1.8730 | 695.54 | 695.54 | 12,993 | 24,336 |
| 1,998 | 1.8009 | 695.54 | 695.54 | 12,993 | 23,399 |
| 1,999 | 1.7317 | 695.54 | 695.54 | 12,993 | 22,500 |
| 2,000 | 1.6651 | 695.54 | 695.54 | 12,993 | 21,635 |
| 2,001 | 1.6010 | 695.54 | 695.54 | 12,993 | 20,802 |
| 2,002 | 1.5395 | 695.54 | 695.54 | 12,993 | 20,003 |
| 2,003 | 1.4802 | 695.54 | 695.54 | 12,993 | 19,232 |
| 2,004 | 1.4233 | 695.54 | 695.54 | 12,993 | 18,493 |
| 2,005 | 1.3686 | 695.54 | 695.54 | 12,993 | 17,782 |
| 2,006 | 1.3159 | 695.54 | 695.54 | 12,993 | 17,097 |
| 2,007 | 1.2653 | 695.54 | 695.54 | 12,993 | 16,440 |
| 2,008 | 1.2167 | 695.54 | 695.54 | 12,993 | 15,809 |
| 2,009 | 1.1699 | 695.54 | 695.54 | 12,993 | 15,201 |
| 2,010 | 1.1249 | 695.54 | 695.54 | 12,993 | 14,616 |
| 2,011 | 1.0816 | 695.54 | 695.54 | 12,993 | 14,053 |
| 2,012 | 1.0400 | 695.54 | 695.54 | 12,993 | 13,513 |
| 2,013 | 1.0000 | 695.54 | 695.54 | 12,993 | 12,993 |
| 2,014 | 0.9615 | 695.54 | 695.54 | 12,993 | 12,493 |
| 2,015 | 0.9246 | 695.54 | 695.54 | 12,993 | 12,013 |
| 2,016 | 0.8890 | 695.54 | 695.54 | 12,993 | 11,551 |
| 2,017 | 0.8548 | 695.54 | 695.54 | 12,993 | 11,106 |
| 2,018 | 0.8219 | 695.54 | 695.54 | 12,993 | 10,679 |
| 2,019 | 0.7903 | 695.54 | 695.54 | 12,993 | 10,268 |
| 2,020 | 0.7599 | 695.54 | 695.54 | 12,993 | 9,873 |

| | | | | | |
|-------|--------|--------|--------|--------|-----------|
| 2.021 | 0.7307 | 695.54 | 695.54 | 12.993 | 9,494 |
| 2.022 | 0.7026 | 695.54 | 695.54 | 12.993 | 9,129 |
| 2.023 | 0.6756 | 695.54 | 695.54 | 12.993 | 8,778 |
| 2.024 | 0.6496 | 695.54 | 695.54 | 12.993 | 8,440 |
| 2.025 | 0.6246 | 695.54 | 695.54 | 12.993 | 8,115 |
| 2.026 | 0.6006 | 695.54 | 695.54 | 12.993 | 7,804 |
| 2.027 | 0.5775 | 695.54 | 695.54 | 12.993 | 7,503 |
| 2.028 | 0.5553 | 695.54 | 695.54 | 12.993 | 7,215 |
| 2.029 | 0.5339 | 695.54 | 695.54 | 12.993 | 6,937 |
| 2.030 | 0.5134 | 695.54 | 695.54 | 12.993 | 6,671 |
| 2.031 | 0.4936 | 695.54 | 695.54 | 12.993 | 6,413 |
| 2.032 | 0.4746 | 695.54 | 695.54 | 12.993 | 6,166 |
| 2.033 | 0.4564 | 695.54 | 695.54 | 12.993 | 5,930 |
| 2.034 | 0.4388 | 695.54 | 695.54 | 12.993 | 5,701 |
| 2.035 | 0.4220 | 695.54 | 695.54 | 12.993 | 5,483 |
| 2.036 | 0.4057 | 695.54 | 695.54 | 12.993 | 5,271 |
| 2.037 | 0.3901 | 695.54 | 695.54 | 12.993 | 5,069 |
| 2.038 | 0.3751 | 695.54 | 695.54 | 12.993 | 4,874 |
| 2.039 | 0.3607 | 695.54 | 695.54 | 12.993 | 4,687 |
| 2.040 | 0.3468 | 695.54 | 695.54 | 12.993 | 4,506 |
| 2.041 | 0.3335 | 695.54 | 695.54 | 12.993 | 4,333 |
| 2.042 | 0.3207 | 695.54 | 695.54 | 12.993 | 4,167 |
| 合計 | | | | | 1,746,525 |

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

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

- Qx: 全貯留量のうち生活用水使用相当量 13.60 億
出典:「日本の水資源(平成25年度版)」(国土交通省)
- Qy: 全貯留量-Qx 392.40 億
- A: 事業対象区域面積(ha) 695.54 ~ 695.54
- P: 年間平均降雨量(mm/年) 1,135
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) 186.47
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) 72.55
- 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 |
|------|--------|----------|--------|--------|---------|
| 1962 | 7.3910 | | | | |
| 1963 | 7.1067 | 695.54 | 46.37 | 1,909 | 13,567 |
| 1964 | 6.8333 | 695.54 | 92.74 | 3,818 | 26,090 |
| 1965 | 6.5705 | 695.54 | 139.11 | 5,728 | 37,636 |
| 1966 | 6.3178 | 695.54 | 185.48 | 7,637 | 48,249 |
| 1967 | 6.0748 | 695.54 | 231.85 | 9,546 | 57,990 |
| 1968 | 5.8412 | 695.54 | 278.22 | 11,455 | 66,911 |
| 1969 | 5.6165 | 695.54 | 324.59 | 13,364 | 75,059 |
| 1970 | 5.4005 | 695.54 | 370.95 | 15,274 | 82,487 |
| 1971 | 5.1928 | 695.54 | 417.32 | 17,183 | 89,228 |
| 1972 | 4.9931 | 695.54 | 463.69 | 19,092 | 95,328 |
| 1973 | 4.8010 | 695.54 | 510.06 | 21,001 | 100,826 |
| 1974 | 4.6164 | 695.54 | 556.43 | 22,911 | 105,766 |
| 1975 | 4.4388 | 695.54 | 602.80 | 24,820 | 110,171 |
| 1976 | 4.2681 | 695.54 | 649.17 | 26,729 | 114,082 |
| 1977 | 4.1039 | 695.54 | 695.54 | 28,638 | 117,527 |
| 1978 | 3.9461 | 695.54 | 695.54 | 28,638 | 113,008 |
| 1979 | 3.7943 | 695.54 | 695.54 | 28,638 | 108,661 |
| 1980 | 3.6484 | 695.54 | 695.54 | 28,638 | 104,483 |
| 1981 | 3.5081 | 695.54 | 695.54 | 28,638 | 100,465 |
| 1982 | 3.3731 | 695.54 | 695.54 | 28,638 | 96,599 |
| 1983 | 3.2434 | 695.54 | 695.54 | 28,638 | 92,884 |
| 1984 | 3.1187 | 695.54 | 695.54 | 28,638 | 89,313 |
| 1985 | 2.9987 | 695.54 | 695.54 | 28,638 | 85,877 |
| 1986 | 2.8834 | 695.54 | 695.54 | 28,638 | 82,575 |
| 1987 | 2.7725 | 695.54 | 695.54 | 28,638 | 79,399 |
| 1988 | 2.6658 | 695.54 | 695.54 | 28,638 | 76,343 |
| 1989 | 2.5633 | 695.54 | 695.54 | 28,638 | 73,408 |
| 1990 | 2.4647 | 695.54 | 695.54 | 28,638 | 70,584 |
| 1991 | 2.3699 | 695.54 | 695.54 | 28,638 | 67,869 |
| 1992 | 2.2788 | 695.54 | 695.54 | 28,638 | 65,260 |
| 1993 | 2.1911 | 695.54 | 695.54 | 28,638 | 62,749 |
| 1994 | 2.1068 | 695.54 | 695.54 | 28,638 | 60,335 |
| 1995 | 2.0258 | 695.54 | 695.54 | 28,638 | 58,015 |
| 1996 | 1.9479 | 695.54 | 695.54 | 28,638 | 55,784 |
| 1997 | 1.8730 | 695.54 | 695.54 | 28,638 | 53,639 |
| 1998 | 1.8009 | 695.54 | 695.54 | 28,638 | 51,574 |
| 1999 | 1.7317 | 695.54 | 695.54 | 28,638 | 49,592 |
| 2000 | 1.6651 | 695.54 | 695.54 | 28,638 | 47,685 |
| 2001 | 1.6010 | 695.54 | 695.54 | 28,638 | 45,849 |
| 2002 | 1.5395 | 695.54 | 695.54 | 28,638 | 44,088 |
| 2003 | 1.4802 | 695.54 | 695.54 | 28,638 | 42,390 |
| 2004 | 1.4233 | 695.54 | 695.54 | 28,638 | 40,760 |
| 2005 | 1.3686 | 695.54 | 695.54 | 28,638 | 39,194 |
| 2006 | 1.3159 | 695.54 | 695.54 | 28,638 | 37,685 |
| 2007 | 1.2653 | 695.54 | 695.54 | 28,638 | 36,236 |
| 2008 | 1.2167 | 695.54 | 695.54 | 28,638 | 34,844 |
| 2009 | 1.1699 | 695.54 | 695.54 | 28,638 | 33,504 |
| 2010 | 1.1249 | 695.54 | 695.54 | 28,638 | 32,215 |
| 2011 | 1.0816 | 695.54 | 695.54 | 28,638 | 30,975 |
| 2012 | 1.0400 | 695.54 | 695.54 | 28,638 | 29,784 |

| | | | | | |
|------|--------|--------|--------|--------|-----------|
| 2013 | 1.0000 | 695.54 | 695.54 | 28,638 | 28,638 |
| 2014 | 0.9615 | 695.54 | 695.54 | 28,638 | 27,535 |
| 2015 | 0.9246 | 695.54 | 695.54 | 28,638 | 26,479 |
| 2016 | 0.8890 | 695.54 | 695.54 | 28,638 | 25,459 |
| 2017 | 0.8548 | 695.54 | 695.54 | 28,638 | 24,480 |
| 2018 | 0.8219 | 695.54 | 695.54 | 28,638 | 23,538 |
| 2019 | 0.7903 | 695.54 | 695.54 | 28,638 | 22,633 |
| 2020 | 0.7599 | 695.54 | 695.54 | 28,638 | 21,762 |
| 2021 | 0.7307 | 695.54 | 695.54 | 28,638 | 20,926 |
| 2022 | 0.7026 | 695.54 | 695.54 | 28,638 | 20,121 |
| 2023 | 0.6756 | 695.54 | 695.54 | 28,638 | 19,348 |
| 2024 | 0.6496 | 695.54 | 695.54 | 28,638 | 18,603 |
| 2025 | 0.6246 | 695.54 | 695.54 | 28,638 | 17,887 |
| 2026 | 0.6006 | 695.54 | 695.54 | 28,638 | 17,200 |
| 2027 | 0.5775 | 695.54 | 695.54 | 28,638 | 16,538 |
| 2028 | 0.5553 | 695.54 | 695.54 | 28,638 | 15,903 |
| 2029 | 0.5339 | 695.54 | 695.54 | 28,638 | 15,290 |
| 2030 | 0.5134 | 695.54 | 695.54 | 28,638 | 14,703 |
| 2031 | 0.4936 | 695.54 | 695.54 | 28,638 | 14,136 |
| 2032 | 0.4746 | 695.54 | 695.54 | 28,638 | 13,592 |
| 2033 | 0.4564 | 695.54 | 695.54 | 28,638 | 13,070 |
| 2034 | 0.4388 | 695.54 | 695.54 | 28,638 | 12,566 |
| 2035 | 0.4220 | 695.54 | 695.54 | 28,638 | 12,085 |
| 2036 | 0.4057 | 695.54 | 695.54 | 28,638 | 11,618 |
| 2037 | 0.3901 | 695.54 | 695.54 | 28,638 | 11,172 |
| 2038 | 0.3751 | 695.54 | 695.54 | 28,638 | 10,742 |
| 2039 | 0.3607 | 695.54 | 695.54 | 28,638 | 10,330 |
| 2040 | 0.3468 | 695.54 | 695.54 | 28,638 | 9,932 |
| 2041 | 0.3335 | 695.54 | 695.54 | 28,638 | 9,551 |
| 2042 | 0.3207 | 695.54 | 695.54 | 28,638 | 9,184 |
| 合計 | | | | | 3,849,563 |

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

- 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)

| | |
|-----|--|
| 荒地等 | |
|-----|--|

 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)

| | |
|-------|--|
| 整備済森林 | |
|-------|--|

 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) 695.54 ~ 695.54
- 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 |
|------|--------|----------|--------|--------|---------|
| 1962 | 7.3910 | | | | |
| 1963 | 7.1067 | 695.54 | 46.37 | 4,856 | 34,510 |
| 1964 | 6.8333 | 695.54 | 92.74 | 9,712 | 66,365 |
| 1965 | 6.5705 | 695.54 | 139.11 | 14,567 | 95,712 |
| 1966 | 6.3178 | 695.54 | 185.48 | 19,423 | 122,711 |
| 1967 | 6.0748 | 695.54 | 231.85 | 24,279 | 147,490 |
| 1968 | 5.8412 | 695.54 | 278.22 | 29,135 | 170,183 |
| 1969 | 5.6165 | 695.54 | 324.59 | 33,991 | 190,910 |
| 1970 | 5.4005 | 695.54 | 370.95 | 38,846 | 209,788 |
| 1971 | 5.1928 | 695.54 | 417.32 | 43,702 | 226,936 |
| 1972 | 4.9931 | 695.54 | 463.69 | 48,558 | 242,455 |
| 1973 | 4.8010 | 695.54 | 510.06 | 53,414 | 256,441 |
| 1974 | 4.6164 | 695.54 | 556.43 | 58,270 | 268,998 |
| 1975 | 4.4388 | 695.54 | 602.80 | 63,125 | 280,199 |
| 1976 | 4.2681 | 695.54 | 649.17 | 67,981 | 290,150 |
| 1977 | 4.1039 | 695.54 | 695.54 | 72,837 | 298,916 |
| 1978 | 3.9461 | 695.54 | 695.54 | 72,837 | 287,422 |
| 1979 | 3.7943 | 695.54 | 695.54 | 72,837 | 276,365 |
| 1980 | 3.6484 | 695.54 | 695.54 | 72,837 | 265,739 |
| 1981 | 3.5081 | 695.54 | 695.54 | 72,837 | 255,519 |
| 1982 | 3.3731 | 695.54 | 695.54 | 72,837 | 245,686 |
| 1983 | 3.2434 | 695.54 | 695.54 | 72,837 | 236,240 |
| 1984 | 3.1187 | 695.54 | 695.54 | 72,837 | 227,157 |
| 1985 | 2.9987 | 695.54 | 695.54 | 72,837 | 218,416 |
| 1986 | 2.8834 | 695.54 | 695.54 | 72,837 | 210,018 |
| 1987 | 2.7725 | 695.54 | 695.54 | 72,837 | 201,941 |
| 1988 | 2.6658 | 695.54 | 695.54 | 72,837 | 194,169 |
| 1989 | 2.5633 | 695.54 | 695.54 | 72,837 | 186,703 |
| 1990 | 2.4647 | 695.54 | 695.54 | 72,837 | 179,521 |
| 1991 | 2.3699 | 695.54 | 695.54 | 72,837 | 172,616 |
| 1992 | 2.2788 | 695.54 | 695.54 | 72,837 | 165,981 |
| 1993 | 2.1911 | 695.54 | 695.54 | 72,837 | 159,593 |
| 1994 | 2.1068 | 695.54 | 695.54 | 72,837 | 153,453 |
| 1995 | 2.0258 | 695.54 | 695.54 | 72,837 | 147,553 |
| 1996 | 1.9479 | 695.54 | 695.54 | 72,837 | 141,879 |
| 1997 | 1.8730 | 695.54 | 695.54 | 72,837 | 136,424 |
| 1998 | 1.8009 | 695.54 | 695.54 | 72,837 | 131,172 |
| 1999 | 1.7317 | 695.54 | 695.54 | 72,837 | 126,132 |
| 2000 | 1.6651 | 695.54 | 695.54 | 72,837 | 121,281 |
| 2001 | 1.6010 | 695.54 | 695.54 | 72,837 | 116,612 |
| 2002 | 1.5395 | 695.54 | 695.54 | 72,837 | 112,133 |
| 2003 | 1.4802 | 695.54 | 695.54 | 72,837 | 107,813 |
| 2004 | 1.4233 | 695.54 | 695.54 | 72,837 | 103,669 |
| 2005 | 1.3686 | 695.54 | 695.54 | 72,837 | 99,685 |
| 2006 | 1.3159 | 695.54 | 695.54 | 72,837 | 95,846 |
| 2007 | 1.2653 | 695.54 | 695.54 | 72,837 | 92,161 |
| 2008 | 1.2167 | 695.54 | 695.54 | 72,837 | 88,621 |
| 2009 | 1.1699 | 695.54 | 695.54 | 72,837 | 85,212 |
| 2010 | 1.1249 | 695.54 | 695.54 | 72,837 | 81,934 |
| 2011 | 1.0816 | 695.54 | 695.54 | 72,837 | 78,780 |
| 2012 | 1.0400 | 695.54 | 695.54 | 72,837 | 75,750 |
| 2013 | 1.0000 | 695.54 | 695.54 | 72,837 | 72,837 |
| 2014 | 0.9615 | 695.54 | 695.54 | 72,837 | 70,033 |
| 2015 | 0.9246 | 695.54 | 695.54 | 72,837 | 67,345 |
| 2016 | 0.8890 | 695.54 | 695.54 | 72,837 | 64,752 |
| 2017 | 0.8548 | 695.54 | 695.54 | 72,837 | 62,261 |
| 2018 | 0.8219 | 695.54 | 695.54 | 72,837 | 59,865 |
| 2019 | 0.7903 | 695.54 | 695.54 | 72,837 | 57,563 |
| 2020 | 0.7599 | 695.54 | 695.54 | 72,837 | 55,349 |
| 2021 | 0.7307 | 695.54 | 695.54 | 72,837 | 53,222 |
| 2022 | 0.7026 | 695.54 | 695.54 | 72,837 | 51,175 |
| 2023 | 0.6756 | 695.54 | 695.54 | 72,837 | 49,209 |
| 2024 | 0.6496 | 695.54 | 695.54 | 72,837 | 47,315 |
| 2025 | 0.6246 | 695.54 | 695.54 | 72,837 | 45,494 |
| 2026 | 0.6006 | 695.54 | 695.54 | 72,837 | 43,746 |
| 2027 | 0.5775 | 695.54 | 695.54 | 72,837 | 42,063 |
| 2028 | 0.5553 | 695.54 | 695.54 | 72,837 | 40,446 |

| | | | | | |
|------|--------|--------|--------|--------|-----------|
| 2029 | 0.5339 | 695.54 | 695.54 | 72.837 | 38,888 |
| 2030 | 0.5134 | 695.54 | 695.54 | 72.837 | 37,395 |
| 2031 | 0.4936 | 695.54 | 695.54 | 72.837 | 35,952 |
| 2032 | 0.4746 | 695.54 | 695.54 | 72.837 | 34,568 |
| 2033 | 0.4564 | 695.54 | 695.54 | 72.837 | 33,243 |
| 2034 | 0.4388 | 695.54 | 695.54 | 72.837 | 31,961 |
| 2035 | 0.4220 | 695.54 | 695.54 | 72.837 | 30,737 |
| 2036 | 0.4057 | 695.54 | 695.54 | 72.837 | 29,550 |
| 2037 | 0.3901 | 695.54 | 695.54 | 72.837 | 28,414 |
| 2038 | 0.3751 | 695.54 | 695.54 | 72.837 | 27,321 |
| 2039 | 0.3607 | 695.54 | 695.54 | 72.837 | 26,272 |
| 2040 | 0.3468 | 695.54 | 695.54 | 72.837 | 25,260 |
| 2041 | 0.3335 | 695.54 | 695.54 | 72.837 | 24,291 |
| 2042 | 0.3207 | 695.54 | 695.54 | 72.837 | 23,359 |
| 合計 | | | | | 9,790,846 |

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

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

- 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 ~ 351.43
- A: 事業対象区域面積(ha) 695.54 ~ 695.54
- R: 流域内崩壊率 0.0084
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 0.7519
出典:気象統計情報(気象庁)
- H: 平均崩壊深(m) 0.8
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 |
|------|--------|----------|--------|-------|-------|
| 1962 | 7.3910 | | | | |
| 1963 | 7.1067 | 695.54 | 0.00 | 0 | 0 |
| 1964 | 6.8333 | 695.54 | 0.00 | 0 | 0 |
| 1965 | 6.5705 | 695.54 | 0.00 | 0 | 0 |
| 1966 | 6.3178 | 695.54 | 0.00 | 0 | 0 |
| 1967 | 6.0748 | 695.54 | 0.00 | 0 | 0 |
| 1968 | 5.8412 | 695.54 | 0.00 | 0 | 0 |
| 1969 | 5.6165 | 695.54 | 0.00 | 0 | 0 |
| 1970 | 5.4005 | 695.54 | 0.00 | 0 | 0 |
| 1971 | 5.1928 | 695.54 | 0.00 | 0 | 0 |
| 1972 | 4.9931 | 695.54 | 0.00 | 0 | 0 |
| 1973 | 4.8010 | 695.54 | 351.43 | 1,968 | 9,448 |
| 1974 | 4.6164 | 695.54 | 351.43 | 1,968 | 9,085 |
| 1975 | 4.4388 | 695.54 | 351.43 | 1,968 | 8,736 |
| 1976 | 4.2681 | 695.54 | 351.43 | 1,968 | 8,400 |
| 1977 | 4.1039 | 695.54 | 351.43 | 1,968 | 8,076 |
| 1978 | 3.9461 | 695.54 | 351.43 | 1,968 | 7,766 |
| 1979 | 3.7943 | 695.54 | 351.43 | 1,968 | 7,467 |
| 1980 | 3.6484 | 695.54 | 351.43 | 1,968 | 7,180 |
| 1981 | 3.5081 | 695.54 | 351.43 | 1,968 | 6,904 |
| 1982 | 3.3731 | 695.54 | 351.43 | 1,968 | 6,638 |
| 1983 | 3.2434 | 695.54 | 351.43 | 1,968 | 6,383 |
| 1984 | 3.1187 | 695.54 | 351.43 | 1,968 | 6,138 |
| 1985 | 2.9987 | 695.54 | 351.43 | 1,968 | 5,901 |
| 1986 | 2.8834 | 695.54 | 351.43 | 1,968 | 5,675 |
| 1987 | 2.7725 | 695.54 | 351.43 | 1,968 | 5,456 |
| 1988 | 2.6658 | 695.54 | 351.43 | 1,968 | 5,246 |
| 1989 | 2.5633 | 695.54 | 351.43 | 1,968 | 5,045 |
| 1990 | 2.4647 | 695.54 | 351.43 | 1,968 | 4,851 |
| 1991 | 2.3699 | 695.54 | 351.43 | 1,968 | 4,664 |
| 1992 | 2.2788 | 695.54 | 351.43 | 1,968 | 4,485 |
| 1993 | 2.1911 | 695.54 | 351.43 | 1,968 | 4,312 |
| 1994 | 2.1068 | 695.54 | 351.43 | 1,968 | 4,146 |
| 1995 | 2.0258 | 695.54 | 351.43 | 1,968 | 3,987 |
| 1996 | 1.9479 | 695.54 | 351.43 | 1,968 | 3,833 |
| 1997 | 1.8730 | 695.54 | 351.43 | 1,968 | 3,686 |
| 1998 | 1.8009 | 695.54 | 351.43 | 1,968 | 3,544 |
| 1999 | 1.7317 | 695.54 | 351.43 | 1,968 | 3,408 |
| 2000 | 1.6651 | 695.54 | 351.43 | 1,968 | 3,277 |
| 2001 | 1.6010 | 695.54 | 351.43 | 1,968 | 3,151 |
| 2002 | 1.5395 | 695.54 | 351.43 | 1,968 | 3,030 |
| 2003 | 1.4802 | 695.54 | 351.43 | 1,968 | 2,913 |
| 2004 | 1.4233 | 695.54 | 351.43 | 1,968 | 2,801 |
| 2005 | 1.3686 | 695.54 | 351.43 | 1,968 | 2,693 |
| 2006 | 1.3159 | 695.54 | 351.43 | 1,968 | 2,590 |
| 2007 | 1.2653 | 695.54 | 351.43 | 1,968 | 2,490 |
| 2008 | 1.2167 | 695.54 | 351.43 | 1,968 | 2,394 |
| 2009 | 1.1699 | 695.54 | 351.43 | 1,968 | 2,302 |
| 2010 | 1.1249 | 695.54 | 351.43 | 1,968 | 2,214 |
| 2011 | 1.0816 | 695.54 | 351.43 | 1,968 | 2,129 |
| 2012 | 1.0400 | 695.54 | 351.43 | 1,968 | 2,047 |
| 2013 | 1.0000 | 695.54 | 351.43 | 1,968 | 1,968 |
| 2014 | 0.9615 | 695.54 | 351.43 | 1,968 | 1,892 |
| 2015 | 0.9246 | 695.54 | 351.43 | 1,968 | 1,820 |
| 2016 | 0.8890 | 695.54 | 351.43 | 1,968 | 1,750 |
| 2017 | 0.8548 | 695.54 | 351.43 | 1,968 | 1,682 |
| 2018 | 0.8219 | 695.54 | 351.43 | 1,968 | 1,617 |
| 2019 | 0.7903 | 695.54 | 351.43 | 1,968 | 1,555 |
| 2020 | 0.7599 | 695.54 | 351.43 | 1,968 | 1,495 |

| | | | | | |
|------|--------|--------|--------|-------|---------|
| 2021 | 0.7307 | 695.54 | 351.43 | 1,968 | 1,438 |
| 2022 | 0.7026 | 695.54 | 351.43 | 1,968 | 1,383 |
| 2023 | 0.6756 | 695.54 | 351.43 | 1,968 | 1,330 |
| 2024 | 0.6496 | 695.54 | 351.43 | 1,968 | 1,278 |
| 2025 | 0.6246 | 695.54 | 351.43 | 1,968 | 1,229 |
| 2026 | 0.6006 | 695.54 | 351.43 | 1,968 | 1,182 |
| 2027 | 0.5775 | 695.54 | 351.43 | 1,968 | 1,137 |
| 2028 | 0.5553 | 695.54 | 351.43 | 1,968 | 1,093 |
| 2029 | 0.5339 | 695.54 | 351.43 | 1,968 | 1,051 |
| 2030 | 0.5134 | 695.54 | 351.43 | 1,968 | 1,010 |
| 2031 | 0.4936 | 695.54 | 351.43 | 1,968 | 971 |
| 2032 | 0.4746 | 695.54 | 351.43 | 1,968 | 934 |
| 2033 | 0.4564 | 695.54 | 351.43 | 1,968 | 898 |
| 2034 | 0.4388 | 695.54 | 351.43 | 1,968 | 864 |
| 2035 | 0.4220 | 695.54 | 351.43 | 1,968 | 830 |
| 2036 | 0.4057 | 695.54 | 351.43 | 1,968 | 798 |
| 2037 | 0.3901 | 695.54 | 351.43 | 1,968 | 768 |
| 2038 | 0.3751 | 695.54 | 351.43 | 1,968 | 738 |
| 2039 | 0.3607 | 695.54 | 351.43 | 1,968 | 710 |
| 2040 | 0.3468 | 695.54 | 351.43 | 1,968 | 683 |
| 2041 | 0.3335 | 695.54 | 351.43 | 1,968 | 656 |
| 2042 | 0.3207 | 695.54 | 351.43 | 1,968 | 631 |
| 合計 | | | | | 229,882 |

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

- 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 106,070
(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) マツ 23,544
カラマツ 830
広葉樹 4,181
前生広葉樹等 2,171
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 212,141
出典:人工林分密度管理図((一社)日本森林技術協会)、 マツ 47,087
森林農地整備センター収穫予測表((独)森林総合研究所)等 カラマツ 1,660
広葉樹 8,362
前生広葉樹等 4,341
0
- Y: 評価期間 80
- D: 容積密度(t/m3) スギ 0.314
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 マツ 0.451
研究所温室効果ガスインベントリオフィス編) カラマツ 0.404
広葉樹 0.624
前生広葉樹等 0.624
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 マツ 1.23
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 広葉樹 1.26
樹齢20年越 前生広葉樹等 1.26
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 マツ 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
広葉樹 0.26
前生広葉樹等 0.26
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 | | マツ | | カラマツ | | 広葉樹 | | 前生広葉樹等 | | 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 | | |
| 1962 | 7.3910 | | | | | | | | | | | | |
| 1963 | 7.1067 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1964 | 6.8333 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1965 | 6.5705 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1966 | 6.3178 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1967 | 6.0748 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1968 | 5.8412 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1969 | 5.6165 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1970 | 5.4005 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1971 | 5.1928 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1972 | 4.9931 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1973 | 4.8010 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1974 | 4.6164 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1975 | 4.4388 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1976 | 4.2681 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1977 | 4.1039 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1978 | 3.9461 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1979 | 3.7943 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1980 | 3.6484 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1981 | 3.5081 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1982 | 3.3731 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1983 | 3.2434 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1984 | 3.1187 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1985 | 2.9987 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1986 | 2.8834 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1987 | 2.7725 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1988 | 2.6658 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1989 | 2.5633 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1990 | 2.4647 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1991 | 2.3699 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1992 | 2.2788 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1993 | 2.1911 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1994 | 2.1068 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |
| 1995 | 2.0258 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 | | |

| | | | | | | | | | | | |
|------|--------|----------|-------|--------|-------|-------|----|-------|-----|-------|-----|
| 1996 | 1.9479 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 1997 | 1.8730 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 1998 | 1.8009 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 1999 | 1.7317 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2000 | 1.6651 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2001 | 1.6010 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2002 | 1.5395 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2003 | 1.4802 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2004 | 1.4233 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2005 | 1.3686 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2006 | 1.3159 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2007 | 1.2653 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2008 | 1.2167 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2009 | 1.1699 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2010 | 1.1249 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2011 | 1.0816 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2012 | 1.0400 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2013 | 1.0000 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2014 | 0.9615 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2015 | 0.9246 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2016 | 0.8890 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2017 | 0.8548 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2018 | 0.8219 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2019 | 0.7903 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2020 | 0.7599 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2021 | 0.7307 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2022 | 0.7026 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2023 | 0.6756 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2024 | 0.6496 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2025 | 0.6246 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2026 | 0.6006 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2027 | 0.5775 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2028 | 0.5553 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2029 | 0.5339 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2030 | 0.5134 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2031 | 0.4936 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2032 | 0.4746 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2033 | 0.4564 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2034 | 0.4388 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2035 | 0.4220 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2036 | 0.4057 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2037 | 0.3901 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2038 | 0.3751 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2039 | 0.3607 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2040 | 0.3468 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2041 | 0.3335 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 2042 | 0.3207 | 1,325.88 | 7,093 | 294.30 | 2,281 | 10.38 | 69 | 52.26 | 574 | 27.13 | 298 |
| 合計 | | | | | | | | | | | |

| 年度 | 社会の割引率 | 合計 | |
|------|--------|--------|--------|
| | | 効果額 | 現在価値化 |
| 1962 | 7.3910 | | |
| 1963 | 7.1067 | 10,315 | 73,306 |
| 1964 | 6.8333 | 10,315 | 70,485 |
| 1965 | 6.5705 | 10,315 | 67,775 |
| 1966 | 6.3178 | 10,315 | 65,168 |
| 1967 | 6.0748 | 10,315 | 62,662 |
| 1968 | 5.8412 | 10,315 | 60,252 |
| 1969 | 5.6165 | 10,315 | 57,934 |
| 1970 | 5.4005 | 10,315 | 55,706 |
| 1971 | 5.1928 | 10,315 | 53,564 |
| 1972 | 4.9931 | 10,315 | 51,504 |
| 1973 | 4.8010 | 10,315 | 49,522 |
| 1974 | 4.6164 | 10,315 | 47,618 |
| 1975 | 4.4388 | 10,315 | 45,786 |
| 1976 | 4.2681 | 10,315 | 44,025 |
| 1977 | 4.1039 | 10,315 | 42,332 |
| 1978 | 3.9461 | 10,315 | 40,704 |
| 1979 | 3.7943 | 10,315 | 39,138 |
| 1980 | 3.6484 | 10,315 | 37,633 |
| 1981 | 3.5081 | 10,315 | 36,186 |
| 1982 | 3.3731 | 10,315 | 34,794 |
| 1983 | 3.2434 | 10,315 | 33,456 |
| 1984 | 3.1187 | 10,315 | 32,169 |
| 1985 | 2.9987 | 10,315 | 30,932 |
| 1986 | 2.8834 | 10,315 | 29,742 |
| 1987 | 2.7725 | 10,315 | 28,598 |
| 1988 | 2.6658 | 10,315 | 27,498 |
| 1989 | 2.5633 | 10,315 | 26,440 |
| 1990 | 2.4647 | 10,315 | 25,423 |
| 1991 | 2.3699 | 10,315 | 24,446 |
| 1992 | 2.2788 | 10,315 | 23,506 |
| 1993 | 2.1911 | 10,315 | 22,601 |
| 1994 | 2.1068 | 10,315 | 21,732 |
| 1995 | 2.0258 | 10,315 | 20,896 |
| 1996 | 1.9479 | 10,315 | 20,093 |
| 1997 | 1.8730 | 10,315 | 19,320 |
| 1998 | 1.8009 | 10,315 | 18,576 |
| 1999 | 1.7317 | 10,315 | 17,862 |
| 2000 | 1.6651 | 10,315 | 17,176 |

| | | | |
|------|--------|--------|-----------|
| 2001 | 1.6010 | 10,315 | 16,514 |
| 2002 | 1.5395 | 10,315 | 15,880 |
| 2003 | 1.4802 | 10,315 | 15,268 |
| 2004 | 1.4233 | 10,315 | 14,681 |
| 2005 | 1.3686 | 10,315 | 14,117 |
| 2006 | 1.3159 | 10,315 | 13,574 |
| 2007 | 1.2653 | 10,315 | 13,052 |
| 2008 | 1.2167 | 10,315 | 12,550 |
| 2009 | 1.1699 | 10,315 | 12,068 |
| 2010 | 1.1249 | 10,315 | 11,603 |
| 2011 | 1.0816 | 10,315 | 11,157 |
| 2012 | 1.0400 | 10,315 | 10,728 |
| 2013 | 1.0000 | 10,315 | 10,315 |
| 2014 | 0.9615 | 10,315 | 9,918 |
| 2015 | 0.9246 | 10,315 | 9,537 |
| 2016 | 0.8890 | 10,315 | 9,170 |
| 2017 | 0.8548 | 10,315 | 8,817 |
| 2018 | 0.8219 | 10,315 | 8,478 |
| 2019 | 0.7903 | 10,315 | 8,152 |
| 2020 | 0.7599 | 10,315 | 7,838 |
| 2021 | 0.7307 | 10,315 | 7,537 |
| 2022 | 0.7026 | 10,315 | 7,247 |
| 2023 | 0.6756 | 10,315 | 6,969 |
| 2024 | 0.6496 | 10,315 | 6,701 |
| 2025 | 0.6246 | 10,315 | 6,443 |
| 2026 | 0.6006 | 10,315 | 6,195 |
| 2027 | 0.5775 | 10,315 | 5,957 |
| 2028 | 0.5553 | 10,315 | 5,728 |
| 2029 | 0.5339 | 10,315 | 5,507 |
| 2030 | 0.5134 | 10,315 | 5,296 |
| 2031 | 0.4936 | 10,315 | 5,091 |
| 2032 | 0.4746 | 10,315 | 4,895 |
| 2033 | 0.4564 | 10,315 | 4,708 |
| 2034 | 0.4388 | 10,315 | 4,526 |
| 2035 | 0.4220 | 10,315 | 4,353 |
| 2036 | 0.4057 | 10,315 | 4,185 |
| 2037 | 0.3901 | 10,315 | 4,024 |
| 2038 | 0.3751 | 10,315 | 3,869 |
| 2039 | 0.3607 | 10,315 | 3,721 |
| 2040 | 0.3468 | 10,315 | 3,577 |
| 2041 | 0.3335 | 10,315 | 3,440 |
| 2042 | 0.3207 | 10,315 | 3,308 |
| 合計 | | | 1,823,254 |

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

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

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

- 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 695.54 ~ 695.54
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 | | | | 現在価値化 | 効果対象面積 | 効果額 | 現在価値化 |
|------|--------|----------|--------|-------|--------|-------|--------|-----|-------|
| | | 事業対象区域面積 | 効果対象面積 | 効果額 | 現在価値化 | | | | |
| 1962 | 7.3910 | | | | | | | | |
| 1963 | 7.1067 | 695.54 | 46.37 | 163 | 1,158 | | | | |
| 1964 | 6.8333 | 695.54 | 92.74 | 327 | 2,234 | | | | |
| 1965 | 6.5705 | 695.54 | 139.11 | 490 | 3,220 | | | | |
| 1966 | 6.3178 | 695.54 | 185.48 | 654 | 4,132 | | | | |
| 1967 | 6.0748 | 695.54 | 231.85 | 817 | 4,963 | | | | |
| 1968 | 5.8412 | 695.54 | 278.22 | 981 | 5,730 | | | | |
| 1969 | 5.6165 | 695.54 | 324.59 | 1,144 | 6,425 | | | | |
| 1970 | 5.4005 | 695.54 | 370.95 | 1,308 | 7,064 | | | | |
| 1971 | 5.1928 | 695.54 | 417.32 | 1,471 | 7,639 | | | | |
| 1972 | 4.9931 | 695.54 | 463.69 | 1,635 | 8,164 | | | | |
| 1973 | 4.8010 | 695.54 | 510.06 | 1,798 | 8,632 | | | | |
| 1974 | 4.6164 | 695.54 | 556.43 | 1,961 | 9,053 | | | | |
| 1975 | 4.4388 | 695.54 | 602.80 | 2,125 | 9,432 | | | | |
| 1976 | 4.2681 | 695.54 | 649.17 | 2,288 | 9,765 | | | | |
| 1977 | 4.1039 | 695.54 | 695.54 | 2,452 | 10,063 | | | | |
| 1978 | 3.9461 | 695.54 | 695.54 | 2,452 | 9,676 | | | | |
| 1979 | 3.7943 | 695.54 | 695.54 | 2,452 | 9,304 | | | | |
| 1980 | 3.6484 | 695.54 | 695.54 | 2,452 | 8,946 | | | | |
| 1981 | 3.5081 | 695.54 | 695.54 | 2,452 | 8,602 | | | | |
| 1982 | 3.3731 | 695.54 | 695.54 | 2,452 | 8,271 | | | | |
| 1983 | 3.2434 | 695.54 | 695.54 | 2,452 | 7,953 | | | | |
| 1984 | 3.1187 | 695.54 | 695.54 | 2,452 | 7,647 | | | | |
| 1985 | 2.9987 | 695.54 | 695.54 | 2,452 | 7,353 | | | | |
| 1986 | 2.8834 | 695.54 | 695.54 | 2,452 | 7,070 | | | | |
| 1987 | 2.7725 | 695.54 | 695.54 | 2,452 | 6,798 | | | | |
| 1988 | 2.6658 | 695.54 | 695.54 | 2,452 | 6,537 | | | | |
| 1989 | 2.5633 | 695.54 | 695.54 | 2,452 | 6,285 | | | | |
| 1990 | 2.4647 | 695.54 | 695.54 | 2,452 | 6,043 | | | | |
| 1991 | 2.3699 | 695.54 | 695.54 | 2,452 | 5,811 | | | | |
| 1992 | 2.2788 | 695.54 | 695.54 | 2,452 | 5,588 | | | | |
| 1993 | 2.1911 | 695.54 | 695.54 | 2,452 | 5,373 | | | | |
| 1994 | 2.1068 | 695.54 | 695.54 | 2,452 | 5,166 | | | | |
| 1995 | 2.0258 | 695.54 | 695.54 | 2,452 | 4,967 | | | | |
| 1996 | 1.9479 | 695.54 | 695.54 | 2,452 | 4,776 | | | | |
| 1997 | 1.8730 | 695.54 | 695.54 | 2,452 | 4,593 | | | | |
| 1998 | 1.8009 | 695.54 | 695.54 | 2,452 | 4,416 | | | | |
| 1999 | 1.7317 | 695.54 | 695.54 | 2,452 | 4,246 | | | | |
| 2000 | 1.6651 | 695.54 | 695.54 | 2,452 | 4,083 | | | | |
| 2001 | 1.6010 | 695.54 | 695.54 | 2,452 | 3,926 | | | | |

| | | | | | | | | |
|------|--------|--------|--------|-------|---------|--|--|---|
| 2002 | 1.5395 | 695.54 | 695.54 | 2.452 | 3.775 | | | |
| 2003 | 1.4802 | 695.54 | 695.54 | 2.452 | 3.629 | | | |
| 2004 | 1.4233 | 695.54 | 695.54 | 2.452 | 3.490 | | | |
| 2005 | 1.3686 | 695.54 | 695.54 | 2.452 | 3.356 | | | |
| 2006 | 1.3159 | 695.54 | 695.54 | 2.452 | 3.227 | | | |
| 2007 | 1.2653 | 695.54 | 695.54 | 2.452 | 3.103 | | | |
| 2008 | 1.2167 | 695.54 | 695.54 | 2.452 | 2.983 | | | |
| 2009 | 1.1699 | 695.54 | 695.54 | 2.452 | 2.869 | | | |
| 2010 | 1.1249 | 695.54 | 695.54 | 2.452 | 2.758 | | | |
| 2011 | 1.0816 | 695.54 | 695.54 | 2.452 | 2.652 | | | |
| 2012 | 1.0400 | 695.54 | 695.54 | 2.452 | 2.550 | | | |
| 2013 | 1.0000 | 695.54 | 695.54 | 2.452 | 2.452 | | | |
| 2014 | 0.9615 | 695.54 | 695.54 | 2.452 | 2.358 | | | |
| 2015 | 0.9246 | 695.54 | 695.54 | 2.452 | 2.267 | | | |
| 2016 | 0.8890 | 695.54 | 695.54 | 2.452 | 2.180 | | | |
| 2017 | 0.8548 | 695.54 | 695.54 | 2.452 | 2.096 | | | |
| 2018 | 0.8219 | 695.54 | 695.54 | 2.452 | 2.015 | | | |
| 2019 | 0.7903 | 695.54 | 695.54 | 2.452 | 1.938 | | | |
| 2020 | 0.7599 | 695.54 | 695.54 | 2.452 | 1.863 | | | |
| 2021 | 0.7307 | 695.54 | 695.54 | 2.452 | 1.792 | | | |
| 2022 | 0.7026 | 695.54 | 695.54 | 2.452 | 1.723 | | | |
| 2023 | 0.6756 | 695.54 | 695.54 | 2.452 | 1.657 | | | |
| 2024 | 0.6496 | 695.54 | 695.54 | 2.452 | 1.593 | | | |
| 2025 | 0.6246 | 695.54 | 695.54 | 2.452 | 1.532 | | | |
| 2026 | 0.6006 | 695.54 | 695.54 | 2.452 | 1.473 | | | |
| 2027 | 0.5775 | 695.54 | 695.54 | 2.452 | 1.416 | | | |
| 2028 | 0.5553 | 695.54 | 695.54 | 2.452 | 1.362 | | | |
| 2029 | 0.5339 | 695.54 | 695.54 | 2.452 | 1.309 | | | |
| 2030 | 0.5134 | 695.54 | 695.54 | 2.452 | 1.259 | | | |
| 2031 | 0.4936 | 695.54 | 695.54 | 2.452 | 1.210 | | | |
| 2032 | 0.4746 | 695.54 | 695.54 | 2.452 | 1.164 | | | |
| 2033 | 0.4564 | 695.54 | 695.54 | 2.452 | 1.119 | | | |
| 2034 | 0.4388 | 695.54 | 695.54 | 2.452 | 1.076 | | | |
| 2035 | 0.4220 | 695.54 | 695.54 | 2.452 | 1.035 | | | |
| 2036 | 0.4057 | 695.54 | 695.54 | 2.452 | 995 | | | |
| 2037 | 0.3901 | 695.54 | 695.54 | 2.452 | 957 | | | |
| 2038 | 0.3751 | 695.54 | 695.54 | 2.452 | 920 | | | |
| 2039 | 0.3607 | 695.54 | 695.54 | 2.452 | 884 | | | |
| 2040 | 0.3468 | 695.54 | 695.54 | 2.452 | 850 | | | |
| 2041 | 0.3335 | 695.54 | 695.54 | 2.452 | 818 | | | |
| 2042 | 0.3207 | 695.54 | 695.54 | 2.452 | 786 | | | |
| 合計 | | | | | 329,595 | | | 0 |

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

Y: 評価期間 80

Vt: 人工林 主伐量 t年後における伐採材積(m3) スギ 0.00 ~ 169,712.50
 マツ 0.00 ~ 34,138.29
 出典:人工林林分密度管理図((一社)日本森林技術協会)、カラマツ 0.00 ~ 1,245.33
 森林農地整備センター収穫予測表((独)森林総合研究所)等 広葉樹 0.00 ~ 8,362.20
 前生広葉樹等 0.00 ~ 4,341.34
 0

@: 人工林 主伐材 木材市場価格(円/m3) スギ 2,736
 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 マツ 1,880
 カラマツ 3,351
 広葉樹 0
 前生広葉樹等 0
 0

| 年度 | 社会的割引率 | スギ | | マツ | | カラマツ | | 広葉樹 | | 前生広葉樹等 | |
|------|--------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
| | | 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 |
| 1962 | 7.3910 | | | | | | | | | | |
| 1963 | 7.1067 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1964 | 6.8333 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1965 | 6.5705 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1966 | 6.3178 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1967 | 6.0748 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1968 | 5.8412 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1969 | 5.6165 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1970 | 5.4005 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1971 | 5.1928 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1972 | 4.9931 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1973 | 4.8010 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1974 | 4.6164 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1975 | 4.4388 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1976 | 4.2681 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1977 | 4.1039 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1978 | 3.9461 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1979 | 3.7943 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1980 | 3.6484 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1981 | 3.5081 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1982 | 3.3731 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1983 | 3.2434 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1984 | 3.1187 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1985 | 2.9987 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1986 | 2.8834 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1987 | 2.7725 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1988 | 2.6658 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1989 | 2.5633 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1990 | 2.4647 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1991 | 2.3699 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1992 | 2.2788 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1993 | 2.1911 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1994 | 2.1068 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1995 | 2.0258 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1996 | 1.9479 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1997 | 1.8730 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1998 | 1.8009 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 1999 | 1.7317 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2000 | 1.6651 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2001 | 1.6010 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2002 | 1.5395 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2003 | 1.4802 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2004 | 1.4233 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2005 | 1.3686 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2006 | 1.3159 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2007 | 1.2653 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2008 | 1.2167 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2009 | 1.1699 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2010 | 1.1249 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2011 | 1.0816 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2012 | 1.0400 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2013 | 1.0000 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2014 | 0.9615 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2015 | 0.9246 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2016 | 0.8890 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2017 | 0.8548 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2018 | 0.8219 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2019 | 0.7903 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2020 | 0.7599 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2021 | 0.7307 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |

| | | | | | | | | | | | |
|------|--------|------------|---------|-----------|--------|----------|-------|----------|---|----------|---|
| 2022 | 0.7026 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2023 | 0.6756 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2024 | 0.6496 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2025 | 0.6246 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2026 | 0.6006 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2027 | 0.5775 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2028 | 0.5553 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2029 | 0.5339 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2030 | 0.5134 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2031 | 0.4936 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2032 | 0.4746 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2033 | 0.4564 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2034 | 0.4388 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2035 | 0.4220 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2036 | 0.4057 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2037 | 0.3901 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2038 | 0.3751 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2039 | 0.3607 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2040 | 0.3468 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2041 | 0.3335 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 |
| 2042 | 0.3207 | 169,712.50 | 464,333 | 34,138.29 | 64,180 | 1,245.33 | 4,173 | 8,362.20 | 0 | 4,341.34 | 0 |
| 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 |
| 1962 | 7.3910 | | | | |
| 1963 | 7.1067 | | | 0 | 0 |
| 1964 | 6.8333 | | | 0 | 0 |
| 1965 | 6.5705 | | | 0 | 0 |
| 1966 | 6.3178 | | | 0 | 0 |
| 1967 | 6.0748 | | | 0 | 0 |
| 1968 | 5.8412 | | | 0 | 0 |
| 1969 | 5.6165 | | | 0 | 0 |
| 1970 | 5.4005 | | | 0 | 0 |
| 1971 | 5.1928 | | | 0 | 0 |
| 1972 | 4.9931 | | | 0 | 0 |
| 1973 | 4.8010 | | | 0 | 0 |
| 1974 | 4.6164 | | | 0 | 0 |
| 1975 | 4.4388 | | | 0 | 0 |
| 1976 | 4.2681 | | | 0 | 0 |
| 1977 | 4.1039 | | | 0 | 0 |
| 1978 | 3.9461 | | | 0 | 0 |
| 1979 | 3.7943 | | | 0 | 0 |
| 1980 | 3.6484 | | | 0 | 0 |
| 1981 | 3.5081 | | | 0 | 0 |
| 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 | | | 532,686 | 170,832 |
| 合計 | | | | | 170,832 |