

費用集計表  
(治山事業)

事業名：直轄地すべり防止事業  
施行箇所：磐井川地区

都道府県名：岩手県

(単位：千円)

年度	事業費	割引率	デフレーター	現在価値額	年度	事業費	割引率	デフレーター	現在価値額
1968		× 8.9922			2044	0	× 0.4564		0
1969	45,000	× 8.6464	57.0	677,259	2045	0	× 0.4388		0
1970	60,000	× 8.3138	62.8	788,752	2046	0	× 0.4220		0
1971	101,968	× 7.9941	68.0	1,190,348	2047	0	× 0.4057		0
1972	153,338	× 7.6866	75.7	1,546,100	2048	90,909	× 0.3901		35,464
1973	111,596	× 7.3910	81.9	1,000,040	2049	0	× 0.3751		0
1974	120,259	× 7.1067	84.0	1,010,312	2050	0	× 0.3607		0
1975	140,079	× 6.8333	86.2	1,102,670	2051	0	× 0.3468		0
1976	116,999	× 6.5705	88.9	858,673	2052	0	× 0.3335		0
1977	277,292	× 6.3178	89.3	1,948,054	2053	0	× 0.3207		0
1978	311,626	× 6.0748	91.5	2,054,442	2054	0	× 0.3083		0
1979	301,000	× 5.8412	93.6	1,865,271	2055	0	× 0.2965		0
1980	312,000	× 5.6165	91.9	1,893,451	2056	0	× 0.2851		0
1981	289,700	× 5.4005	92.4	1,681,356	2057	0	× 0.2741		0
1982	286,623	× 5.1928	93.8	1,575,647	2058	90,909	× 0.2636		23,964
1983	282,900	× 4.9931	94.6	1,482,727	2059	0	× 0.2534		0
1984	276,000	× 4.8010	95.9	1,372,055	2060	0	× 0.2437		0
1985	303,000	× 4.6164	96.6	1,437,865	2061	0	× 0.2343		0
1986	306,497	× 4.4388	98.7	1,368,749	2062	0	× 0.2253		0
1987	396,455	× 4.2681	100.8	1,666,929	2063	0	× 0.2166		0
1988	352,300	× 4.1039	103.9	1,381,793	2064	0	× 0.2083		0
1989	341,650	× 3.9461	106.0	1,262,970	2065	0	× 0.2003		0
1990	326,311	× 3.7943	107.6	1,142,616	2066	0	× 0.1926		0
1991	296,408	× 3.6484	107.6	997,997	2067	0	× 0.1852		0
1992	360,549	× 3.5081	107.9	1,164,030	2068	90,909	× 0.1780		16,182
1993	321,632	× 3.3731	107.2	1,004,946					
1994	372,179	× 3.2434	108.7	1,102,737					
1995	388,876	× 3.1187	110.9	1,085,932					
1996	291,838	× 2.9987	112.8	770,398					
1997	332,486	× 2.8834	113.0	842,460					
1998	395,069	× 2.7725	110.9	980,759					
1999	478,666	× 2.6658	109.7	1,155,055					
2000	384,385	× 2.5633	110.4	886,229					
2001	329,008	× 2.4647	110.4	729,375					
2002	281,336	× 2.3699	108.4	610,767					
2003	230,271	× 2.2788	108.6	479,805					
2004	226,210	× 2.1911	108.1	455,300					
2005	254,393	× 2.1068	109.7	485,144					
2006	240,653	× 2.0258	110.4	438,498					
2007	209,382	× 1.9479	109.3	370,540					
2008	172,292	× 1.8730	107.1	299,201					
2009	499,004	× 1.8009	103.5	862,189					
2010	495,072	× 1.7317	105.5	806,934					
2011	517,984	× 1.6651	106.0	807,979					
2012	400,305	× 1.6010	104.9	606,675					
2013	587,465	× 1.5395	104.5	859,399					
2014	451,362	× 1.4802	102.2	649,148					
2015	338,564	× 1.4233	101.2	472,831					
2016	468,273	× 1.3686	102.5	620,871					
2017	211,807	× 1.3159	102.4	270,279					
2018	129,851	× 1.2653	102.4	159,327					
2019	0	× 1.2167	101.7	0					
2020	0	× 1.1699	100.0	0					
2021	0	× 1.1249	101.2	0					
2022	0	× 1.0816	101.3	0					
2023	0	× 1.0400	99.3	0					
2024	0	× 1.0000	99.3	0					
2025	0	× 0.9615		0					
2026	0	× 0.9246		0					
2027	0	× 0.8890		0					
2028	90,909	× 0.8548		77,709					
2029	0	× 0.8219		0					
2030	0	× 0.7903		0					
2031	0	× 0.7599		0					
2032	0	× 0.7307		0					
2033	0	× 0.7026		0					
2034	0	× 0.6756		0					
2035	0	× 0.6496		0					
2036	0	× 0.6246		0					
2037	0	× 0.6006		0					
2038	90,909	× 0.5775		52,500					
2039	0	× 0.5553		0					
2040	0	× 0.5339		0					
2041	0	× 0.5134		0					
2042	0	× 0.4936		0					
2043	0	× 0.4746		0					
					合計	50,488,703			
					C =	50,488,703 千円			

デフレーター：厚生労働省毎月勤労統計調査「実質賃金指数-決まって支給する給与(30人以上)」

災害防止便益  
 山地災害防止便益

305,809,962 千円

$$B = \sum_{t=1}^{T-1} \frac{Z_t}{T \times (1+i)^t} + \frac{Y}{Z_1} \frac{1}{(1+i)^t} \times D \times R$$

- D: 山腹崩壊等によって被害を被る家屋や資材等の年平均想定被害額 (円/年) 3,734,319.207
- R: 年間山腹崩壊発生率 1.000
- T: 整備期間(便益の算出に当たっては、整備期間までの事業費の合計を用いている。) 50
- t: 経過年数(治山事業の便益の算出に当たっては、各年度の事業費の累計を用いている。)評
- Y: 備期間 100
- i: 社会的割引率(0.04)

年度	社会的割引率	t/T	効果額 千円	現在価値化 千円
1968	8.9922			
1969	8.6464	0.0030	11,203	96,866
1970	8.3138	0.0071	26,514	220,432
1971	7.9941	0.0139	51,907	414,950
1972	7.6866	0.0242	90,371	694,646
1973	7.3910	0.0377	118,378	874,932
1974	7.1067	0.0538	148,626	1,056,240
1975	6.8333	0.0492	183,729	1,255,475
1976	6.5705	0.0571	213,230	1,401,028
1977	6.3178	0.0757	282,688	1,785,966
1978	6.0748	0.0967	361,109	2,193,605
1979	5.8412	0.1169	436,542	2,549,929
1980	5.6165	0.1379	514,963	2,892,290
1981	5.4005	0.1573	587,408	3,172,297
1982	5.1928	0.1766	659,481	3,424,553
1983	4.9931	0.1956	730,433	3,647,125
1984	4.8010	0.2142	799,891	3,840,277
1985	4.6164	0.2345	875,698	4,042,572
1986	4.4388	0.2551	952,625	4,228,512
1987	4.2681	0.2818	1,052,331	4,491,454
1988	4.1039	0.3055	1,140,835	4,681,873
1989	3.9461	0.3284	1,226,350	4,839,300
1990	3.7943	0.3504	1,308,505	4,964,861
1991	3.6484	0.3703	1,382,818	5,045,073
1992	3.5081	0.3945	1,473,189	5,168,094
1993	3.3731	0.4181	1,533,850	5,241,291
1994	3.2434	0.4411	1,647,208	5,342,554
1995	3.1187	0.4673	1,745,047	5,442,278
1996	2.9987	0.4889	1,818,240	5,452,356
1997	2.8834	0.5092	1,901,515	5,482,828
1998	2.7725	0.5358	2,000,848	5,547,351
1999	2.6658	0.5680	2,121,093	5,654,410
2000	2.5633	0.5938	2,217,439	5,683,961
2001	2.4647	0.6159	2,299,967	5,668,729
2002	2.3699	0.6348	2,370,546	5,617,957
2003	2.2788	0.6503	2,428,428	5,533,902
2004	2.1911	0.6655	2,465,189	5,445,296
2005	2.1068	0.6826	2,543,046	5,370,330
2006	2.0258	0.6988	2,609,542	5,296,410
2007	1.9479	0.7129	2,662,196	5,185,692
2008	1.8730	0.7244	2,705,141	5,066,729
2009	1.8009	0.7580	2,830,614	5,097,653
2010	1.7317	0.7913	2,954,967	5,117,116
2011	1.6651	0.8261	3,084,921	5,136,702
2012	1.6010	0.8530	3,185,374	5,099,784
2013	1.5395	0.8925	3,332,880	5,130,969
2014	1.4802	0.9228	3,446,030	5,100,814
2015	1.4233	0.9456	3,531,172	5,025,977
2016	1.3686	0.9770	3,648,430	4,993,241
2017	1.3159	0.9913	3,701,831	4,871,239
2018	1.2653	1.0000	3,734,319	4,725,034
2019	1.2167	1.0000	3,734,319	4,543,546
2020	1.1699	1.0000	3,734,319	4,368,780
2021	1.1249	1.0000	3,734,319	4,200,735
2022	1.0816	1.0000	3,734,319	4,039,039
2023	1.0400	1.0000	3,734,319	3,883,692
2024	1.0000	1.0000	3,734,319	3,734,319
2025	0.9615	1.0000	3,734,319	3,590,548
2026	0.9246	1.0000	3,734,319	3,452,751
2027	0.8890	1.0000	3,734,319	3,319,810
2028	0.8548	1.0000	3,734,319	3,192,096
2029	0.8219	1.0000	3,734,319	3,069,237
2030	0.7903	1.0000	3,734,319	2,951,232
2031	0.7599	1.0000	3,734,319	2,837,709
2032	0.7307	1.0000	3,734,319	2,728,667
2033	0.7026	1.0000	3,734,319	2,623,733
2034	0.6756	1.0000	3,734,319	2,522,906
2035	0.6496	1.0000	3,734,319	2,425,814
2036	0.6246	1.0000	3,734,319	2,332,456
2037	0.6006	1.0000	3,734,319	2,242,832
2038	0.5775	1.0000	3,734,319	2,156,969
2039	0.5553	1.0000	3,734,319	2,073,667
2040	0.5338	1.0000	3,734,319	1,993,753
2041	0.5134	1.0000	3,734,319	1,917,199
2042	0.4936	1.0000	3,734,319	1,843,280
2043	0.4746	1.0000	3,734,319	1,772,308
2044	0.4564	1.0000	3,734,319	1,704,343
2045	0.4388	1.0000	3,734,319	1,638,619
2046	0.4220	1.0000	3,734,319	1,575,883
2047	0.4057	1.0000	3,734,319	1,515,013
2048	0.3901	1.0000	3,734,319	1,456,758
2049	0.3751	1.0000	3,734,319	1,400,743
2050	0.3607	1.0000	3,734,319	1,346,969
2051	0.3468	1.0000	3,734,319	1,295,062
2052	0.3335	1.0000	3,734,319	1,245,395
2053	0.3207	1.0000	3,734,319	1,197,596
2054	0.3083	1.0000	3,734,319	1,151,291
2055	0.2965	1.0000	3,734,319	1,107,226
2056	0.2851	1.0000	3,734,319	1,064,654
2057	0.2741	1.0000	3,734,319	1,023,577
2058	0.2636	1.0000	3,734,319	984,366
2059	0.2534	1.0000	3,734,319	946,276
2060	0.2437	1.0000	3,734,319	910,054
2061	0.2343	1.0000	3,734,319	874,951
2062	0.2253	1.0000	3,734,319	841,342
2063	0.2166	1.0000	3,734,319	808,853
2064	0.2083	1.0000	3,734,319	777,859
2065	0.2003	1.0000	3,734,319	747,984
2066	0.1926	1.0000	3,734,319	719,230
2067	0.1852	1.0000	3,734,319	691,596
2068	0.1780	1.0000	3,734,319	664,709
合計				305,809,962