

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前) (事業全体:基本)

費用便益分析シート(割引後)

EIRR= 4.5% NPV= 290 億円  
B/C= 1.26

(億円)										(億円)													
割引前										割引後													
年度	施設提供期間	初期投資・更新投資 (百万円)	初期投資・更新投資 (百万円)	運営・維持コスト	総費用 (C)	浸水軽減便益	海難回避便益	残存価値	総便益 (B)	純便益 (B-C)	年度	施設提供期間	社会的割引率	初期投資・更新投資 (百万円)	初期投資・更新投資 (百万円)	運営・維持コスト	総費用 (C)	浸水軽減便益	海難回避便益	残存価値	総便益 (B)	純便益 (B-C)	
1988											1988		2.37										
1989										-2.1	1989		2.28										
1990		1.9	0.2		2.1					-6.6	1990		2.19	4.1	0.5		4.6						-4.6
1991		6.0	0.7		6.6					-9.3	1991		2.11	12.6	1.4		14.0						-14.0
1992		8.4	0.9		9.3					-11.4	1992		2.03	16.9	1.9		18.8						-18.8
1993		10.3	1.1		11.4					-13.8	1993		1.95	20.0	2.2		22.2						-22.2
1994		6.6	0.7		7.3					-16.9	1994		1.87	12.3	1.3		13.6						-13.6
1995		11.9	1.9		13.8					-10.8	1995		1.80	21.5	3.4		24.9						-24.9
1996		14.4	2.5		16.9					-20.8	1996		1.73	25.0	4.3		29.2						-29.2
1997		9.7	1.1		10.8					-14.8	1997		1.67	16.1	1.8		17.9						-17.9
1998		19.3	1.5		20.8					-22.2	1998		1.60	30.9	2.4		33.3						-33.3
1999		12.8	2.0		14.8					-22.1	1999		1.54	19.7	3.1		22.8						-22.8
2000		16.9	6.3		23.2					-22.1	2000		1.48	25.0	9.3		34.3						-34.3
2001		21.3	0.8		22.1					-37.0	2001		1.42	30.3	1.2		31.5						-31.5
2002		35.8	1.2		37.0					-19.6	2002		1.37	49.0	1.6		50.6						-50.6
2003		16.3	3.3		19.6					-13.6	2003		1.32	21.4	4.4		25.7						-25.7
2004		11.9	1.7		13.6					-12.9	2004		1.27	15.0	2.1		17.2						-17.2
2005		11.5	1.4		12.9					-37.3	2005		1.22	14.0	1.7		15.7						-15.7
2006		32.4	4.9		37.3					-36.6	2006		1.17	37.9	5.7		43.2						-43.2
2007		32.1	4.5		36.6					-29.6	2007		1.12	36.1	5.0		41.7						-41.7
2008		26.8	2.8		29.6					-39.5	2008		1.08	29.0	3.0		32.0						-32.0
2009		33.4	6.2		39.5					1.04	2009		1.04	34.7	6.4		41.1						-41.1
2010		23.1	2.6		25.7	1.5		1.5	-24.2	2010		1.00	23.1	2.6		25.7	1.5				1.5	-24.2	
2011		36.0	4.0		40.0	1.5		1.5	-38.5	2011		0.96	34.6	3.8		38.5	1.5				1.5	-37.0	
2012		36.0	4.0		40.0	1.5		1.5	-38.5	2012		0.92	33.3	3.7		37.0	1.4				1.4	-35.6	
2013		37.7	4.2		41.9	1.5		1.5	-40.4	2013		0.89	33.5	3.7		37.3	1.4				1.4	-35.9	
2014		37.7	4.2		41.9	1.5		1.5	-40.4	2014		0.85	32.2	3.6		35.8	1.3				1.3	-34.5	
2015		37.7	4.2		41.9	1.5		1.5	-40.4	2015		0.82	31.0	3.4		34.4	1.3				1.3	-33.2	
2016		37.7	4.2		41.9	1.5		1.5	-40.4	2016		0.79	29.8	3.3		33.1	1.2				1.2	-31.9	
2017		37.7	4.2		41.9	23.7	7.1		30.8	-11.1	2017		0.76	28.7	3.2		31.8	18.0	5.4		23.4	-8.4	
2018		37.7	4.2		41.9	23.7	7.1		30.8	-11.1	2018		0.73	27.6	3.1		30.6	17.3	5.2		22.5	-8.1	
2019		37.7	4.2		41.9	23.7	7.1		30.8	-11.1	2019		0.70	26.5	2.9		29.4	16.7	5.0		21.7	-7.8	
2020		37.7	4.2		41.9	23.7	7.1		30.8	-11.1	2020		0.68	25.5	2.8		28.3	16.0	4.8		20.8	-7.5	
2021		37.7	4.2		41.9	23.7	7.1		30.8	-11.1	2021		0.65	24.5	2.7		27.2	15.4	4.6		20.0	-7.2	
2022		37.7	4.2		41.9	23.7	7.1		30.8	-11.1	2022		0.62	23.6	2.6		26.2	14.8	4.4		19.2	-6.9	
2023		37.7	4.2		41.9	35.2	20.2		55.5	13.6	2023		0.60	22.7	2.5		25.2	21.2	12.2		33.3	9.1	
2024		37.7	4.2		41.9	35.2	20.2		55.5	13.6	2024		0.58	21.8	2.4		24.2	20.3	11.7		32.0	7.8	
2025		37.7	4.2		41.9	35.2	20.2		55.5	13.6	2025		0.56	20.9	2.3		23.3	19.6	11.2		30.8	7.5	
2026		37.7	4.2		41.9	35.2	20.2		55.5	13.6	2026		0.53	20.1	2.2		22.4	18.8	10.8		29.6	7.2	
2027		41.3	0.6		41.9	35.2	20.2		55.5	13.6	2027		0.51	21.2	0.3		21.5	18.1	10.4		28.5	7.0	
2028		37.2			37.2	35.2	20.2		55.5	18.3	2028		0.49	18.4			18.4	17.4	10.0		27.4	9.0	
2029	1				41.9	56.0			97.9	97.9	2029	1	0.47				19.9	26.6			46.5	46.5	
2030	2				41.9	56.0			97.9	97.9	2030	2	0.46				19.1	25.6			44.7	44.7	
2031	3				41.9	56.0			97.9	97.9	2031	3	0.44				18.4	24.6			43.0	43.0	
2032	4				41.9	56.0			97.9	97.9	2032	4	0.42				17.7	23.6			41.3	41.3	
2033	5				41.9	56.0			97.9	97.9	2033	5	0.41				17.0	22.7			39.7	39.7	
2034	6				41.9	56.0			97.9	97.9	2034	6	0.39				16.3	21.8			38.2	38.2	
2035	7				41.9	56.0			97.9	97.9	2035	7	0.38				15.7	21.0			36.7	36.7	
2036	8				41.9	56.0			97.9	97.9	2036	8	0.36				15.1	20.2			35.3	35.3	
2037	9				41.9	56.0			97.9	97.9	2037	9	0.35				14.5	19.4			33.9	33.9	
2038	10				41.9	56.0			97.9	97.9	2038	10	0.33				14.0	18.7			32.6	32.6	
2039	11				41.9	56.0			97.9	97.9	2039	11	0.32				13.4	18.0			31.4	31.4	
2040	12				41.9	56.0			97.9	97.9	2040	12	0.31				12.9	17.3			30.2	30.2	
2041	13				41.9	56.0			97.9	97.9	2041	13	0.30				12.4	16.6			29.0	29.0	
2042	14				41.9	56.0			97.9	97.9	2042	14	0.29				11.9	16.0			27.9	27.9	
2043	15				41.9	56.0			97.9	97.9	2043	15	0.27				11.5	15.3			26.8	26.8	
2044	16				41.9	56.0			97.9	97.9	2044	16	0.26				11.0	14.8			25.8	25.8	
2045	17				41.9	56.0			97.9	97.9	2045	17	0.25				10.6	14.2			24.8	24.8	
2046	18				41.9	56.0			97.9	97.9	2046	18	0.24				10.2	13.6			23.9	23.9	
2047	19				41.9	56.0			97.9	97.9	2047	19	0.23				9.8	13.1			22.9	22.9	
2048	20				41.9	56.0			97.9	97.9	2048	20	0.23				9.4	12.6			22.1	22.1	
2049	21				41.9	56.0			97.9	97.9	2049	21	0.22				9.1	12.1			21.2	21.2	
2050	22				41.9	56.0			97.9	97.9	2050	22	0.21				8.7	11.7			20.4	20.4	
2051	23				41.9	56.0			97.9	97.9	2051	23	0.20				8.4	11.2			19.6	19.6	
2052	24				41.9	56.0			97.9	97.9	2052	24	0.19				8.1	10.8			18.8	18.8	
2053	25				41.9	56.0			97.9	97.9	2053	25	0.19				7.8	10.4			18.1	18.1	
2054	26				41.9	56.0			97.9	97.9	2054	26	0.18				7.5	10.0			17.4	17.4	
2055	27				41.9	56.0			97.9	97.9	2055	27	0.17				7.2	9.6			16.8	16.8	
2056	28				41.9	56.0			97.9	97.9	2056	28	0.16				6.9	9.2			16.1	16.1	
2057	29				41.9	56.0			97.9	97.9	2057	29	0.16				6.6	8.9			15.5	15.5	
2058	30				41.9	56.0			97.9	97.9	2058	30	0.15				6.4	8.5			14.9	14.9	
2059	31				41.9	56.0			97.9	97.9	2059	31	0.15				6.1	8.2			14.3	14.3	
2060	32				41.9	56.0			97.9	97.9	2060	32	0.14				5.9	7.9			13.8	13.8	
2061	33				41.9	56.0			97.9	97.9	2061	33	0.14				5.7	7.6			13.2	13.2	
2062	34				41.9	56.0			97.9	97.9	20												

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前)

(事業全体:需要-10%) 費用便益分析シート(割引後)

EIRR= 4.4% NPV= 144 億円  
B/C= 1.13

割引前 (億円)										割引後 (億円)														
年度	施設提供期間	初期投資・更新投資 (B)	初期投資・更新投資 (B)	運営・維持コスト	総費用 (C)	浸水軽減便益	海難回避便益	残存価値	総便益 (B)	純便益 (B-C)	年度	施設提供期間	社会的割引率	初期投資・更新投資 (B)	初期投資・更新投資 (B)	運営・維持コスト	総費用 (C)	浸水軽減便益	海難回避便益	残存価値	総便益 (B)	純便益 (B-C)		
1988											1988		2.37											
1989											1989		2.28											
1990		1.9	0.2		2.1					-2.1	1990		2.19	4.1	0.5		4.6						-4.6	
1991		6.0	0.7		6.6					-6.6	1991		2.11	12.6	1.4		14.0						-14.0	
1992		8.4	0.9		9.3					-9.3	1992		2.03	16.9	1.9		18.8						-18.8	
1993		10.3	1.1		11.4					-11.4	1993		1.95	20.0	2.2		22.2						-22.2	
1994		6.6	0.7		7.3					-7.3	1994		1.87	12.3	1.3		13.6						-13.6	
1995		11.9	1.9		13.8					-13.8	1995		1.80	21.5	3.4		24.9						-24.9	
1996		14.4	2.5		16.9					-16.9	1996		1.73	25.0	4.3		29.2						-29.2	
1997		9.7	1.1		10.8					-10.8	1997		1.67	16.1	1.8		17.9						-17.9	
1998		19.3	1.5		20.8					-20.8	1998		1.60	30.9	2.4		33.3						-33.3	
1999		12.8	2.0		14.8					-14.8	1999		1.54	19.7	3.1		22.8						-22.8	
2000		16.9	6.3		23.2					-23.2	2000		1.48	25.0	9.0		34.3						-34.3	
2001		21.3	0.8		22.1					-22.1	2001		1.42	30.3	1.2		31.5						-31.5	
2002		35.8	1.2		37.0					-37.0	2002		1.37	49.0	1.6		50.6						-50.6	
2003		16.3	3.3		19.6					-19.6	2003		1.32	21.4	4.4		25.7						-25.7	
2004		11.9	1.7		13.6					-13.6	2004		1.27	15.0	2.1		17.2						-17.2	
2005		11.5	1.4		12.9					-12.9	2005		1.22	14.0	1.7		15.7						-15.7	
2006		32.4	4.9		37.3					-37.3	2006		1.17	37.9	5.7		43.7						-43.7	
2007		32.1	4.5		36.6					-36.6	2007		1.12	36.1	5.0		41.2						-41.2	
2008		26.8	2.6		29.6					-29.6	2008		1.08	29.0	3.0		32.0						-32.0	
2009		33.4	6.2		39.5					-39.5	2009		1.04	34.7	6.4		41.1						-41.1	
2010		23.1	2.6		25.7	1.4		1.4	-24.3	2010		1.00	23.1	2.6		25.7	1.4		1.4	-24.3				
2011		36.0	4.0		40.0	1.4		1.4	-38.6	2011		0.96	34.6	3.8		38.5	1.3		1.3	-37.1				
2012		36.0	4.0		40.0	1.4		1.4	-38.6	2012		0.92	33.3	3.7		37.0	1.3		1.3	-35.7				
2013		37.7	4.2		41.9	1.4		1.4	-40.5	2013		0.89	33.5	3.7		37.3	1.2		1.2	-36.0				
2014		37.7	4.2		41.9	1.4		1.4	-40.5	2014		0.85	32.2	3.6		35.8	1.2		1.2	-34.6				
2015		37.7	4.2		41.9	1.4		1.4	-40.5	2015		0.82	31.0	3.4		34.4	1.1		1.1	-33.3				
2016		37.7	4.2		41.9	1.4		1.4	-40.5	2016		0.79	29.8	3.3		33.1	1.1		1.1	-32.0				
2017		37.7	4.2		41.9	21.4	6.4	27.7	-14.2	2017		0.76	28.7	3.2		31.8	16.2	4.8	21.1	-10.8				
2018		37.7	4.2		41.9	21.4	6.4	27.7	-14.2	2018		0.73	27.6	3.1		30.6	15.6	4.7	20.3	-10.4				
2019		37.7	4.2		41.9	21.4	6.4	27.7	-14.2	2019		0.70	26.5	2.9		29.4	15.0	4.5	19.5	-10.0				
2020		37.7	4.2		41.9	21.4	6.4	27.7	-14.2	2020		0.68	25.5	2.8		28.3	14.4	4.3	18.7	-9.6				
2021		37.7	4.2		41.9	21.4	6.4	27.7	-14.2	2021		0.65	24.5	2.7		27.2	13.9	4.1	18.0	-9.2				
2022		37.7	4.2		41.9	21.4	6.4	27.7	-14.2	2022		0.62	23.6	2.6		26.2	13.3	4.0	17.3	-8.8				
2023		37.7	4.2		41.9	21.4	6.4	27.7	-14.2	2023		0.60	22.7	2.5		25.2	12.6	3.9	16.6	-8.4				
2024		37.7	4.2		41.9	31.7	18.2	49.9	8.0	2024		0.58	21.8	2.4		24.2	18.3	10.5	28.8	4.6				
2025		37.7	4.2		41.9	31.7	18.2	49.9	8.0	2025		0.56	20.9	2.3		23.3	17.6	10.1	27.7	4.5				
2026		37.7	4.2		41.9	31.7	18.2	49.9	8.0	2026		0.53	20.1	2.2		22.4	16.9	9.7	26.7	4.3				
2027		41.3	0.6		41.9	31.7	18.2	49.9	8.0	2027		0.51	21.2	0.3		21.5	16.3	9.4	25.6	4.1				
2028		37.2			37.2	31.7	18.2	49.9	12.7	2028		0.49	18.4			18.4	15.7	9.0	24.6	6.3				
2029	1				37.7	50.4		88.1	88.1	2029	1	0.47				17.9	23.9		41.8	41.8				
2030	2				37.7	50.4		88.1	88.1	2030	2	0.46				17.2	23.0		40.2	40.2				
2031	3				37.7	50.4		88.1	88.1	2031	3	0.44				16.5	22.1		38.7	38.7				
2032	4				37.7	50.4		88.1	88.1	2032	4	0.42				15.9	21.3		37.2	37.2				
2033	5				37.7	50.4		88.1	88.1	2033	5	0.41				15.3	20.4		35.7	35.7				
2034	6				37.7	50.4		88.1	88.1	2034	6	0.39				14.7	19.7		34.4	34.4				
2035	7				37.7	50.4		88.1	88.1	2035	7	0.38				14.1	18.9		33.0	33.0				
2036	8				37.7	50.4		88.1	88.1	2036	8	0.36				13.6	18.2		31.8	31.8				
2037	9				37.7	50.4		88.1	88.1	2037	9	0.35				13.1	17.5		30.6	30.6				
2038	10				37.7	50.4		88.1	88.1	2038	10	0.33				12.6	16.8		29.4	29.4				
2039	11				37.7	50.4		88.1	88.1	2039	11	0.32				12.1	16.2		28.2	28.2				
2040	12				37.7	50.4		88.1	88.1	2040	12	0.31				11.6	15.5		27.2	27.2				
2041	13				37.7	50.4		88.1	88.1	2041	13	0.30				11.2	14.9		26.1	26.1				
2042	14				37.7	50.4		88.1	88.1	2042	14	0.29				10.7	14.4		25.1	25.1				
2043	15				37.7	50.4		88.1	88.1	2043	15	0.27				10.3	13.8		24.1	24.1				
2044	16				37.7	50.4		88.1	88.1	2044	16	0.26				9.9	13.3		23.2	23.2				
2045	17				37.7	50.4		88.1	88.1	2045	17	0.25				9.6	12.8		22.3	22.3				
2046	18				37.7	50.4		88.1	88.1	2046	18	0.24				9.2	12.3		21.5	21.5				
2047	19				37.7	50.4		88.1	88.1	2047	19	0.23				8.8	11.8		20.6	20.6				
2048	20				37.7	50.4		88.1	88.1	2048	20	0.23				8.5	11.4		19.8	19.8				
2049	21				37.7	50.4		88.1	88.1	2049	21	0.22				8.2	10.9		19.1	19.1				
2050	22				37.7	50.4		88.1	88.1	2050	22	0.21				7.9	10.5		18.3	18.3				
2051	23				37.7	50.4		88.1	88.1	2051	23	0.20				7.6	10.1		17.6	17.6				
2052	24				37.7	50.4		88.1	88.1	2052	24	0.19				7.3	9.7		17.0	17.0				
2053	25				37.7	50.4		88.1	88.1	2053	25	0.19				7.0	9.3		16.3	16.3				
2054	26				37.7	50.4		88.1	88.1	2054	26	0.18				6.7	9.0		15.7	15.7				
2055	27				37.7	50.4		88.1	88.1	2055	27	0.17				6.5	8.6		15.1	15.1				
2056	28				37.7	50.4		88.1	88.1	2056	28	0.16				6.2	8.3		14.5	14.5				
2057	29				37.7	50.4		88.1	88.1	2057	29	0.16				6.0	8.0		13.9	13.9				
2058	30				37.7	50.4		88.1	88.1	2058	30	0.15				5.7	7.7		13.4	13.4				
2059	31				37.7	50.4		88.1	88.1	2059	31	0.15				5.5	7.4		12.9	12.9				
2060	32				37.7	50.4		88.1	88.1	2060	32	0.14				5.3	7.1		12.4	12.4				
2061	33				37.7	50.4		88.1	88.1															

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前) (事業全体:需要+10%)

費用便益分析シート(割引後)

EIRR= 5.1% NPV= 416 億円  
B/C= 1.38

(億円)											(億円)												
割引前											割引後												
年度	施設供 用期間	初期投資・ 更新投資 (万円)	初期投資・ 更新投資 (万円)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B)	純便益 (B-C)	年度	施設供 用期間	社会的 割引率	初期投資・ 更新投資 (万円)	初期投資・ 更新投資 (万円)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B)	純便益 (B-C)	
1988											1988		2.37										
1989											1989		2.28										
1990		1.9	0.2		2.1					-2.1	1990		2.19	4.1	0.5		4.6						-4.6
1991		6.0	0.7		6.6					-6.6	1991		2.11	12.6	1.4		14.0						-14.0
1992		8.4	0.9		9.3					-9.3	1992		2.03	16.9	1.9		18.8						-18.8
1993		10.3	1.1		11.4					-11.4	1993		1.95	20.0	2.2		22.2						-22.2
1994		6.6	0.7		7.3					-7.3	1994		1.87	12.3	1.3		13.6						-13.6
1995		11.9	1.9		13.8					-13.8	1995		1.80	21.5	3.4		24.9						-24.9
1996		14.4	2.5		16.9					-16.9	1996		1.73	25.0	4.3		29.2						-29.2
1997		9.7	1.1		10.8					-10.8	1997		1.67	16.1	1.8		17.9						-17.9
1998		19.3	1.5		20.8					-20.8	1998		1.60	30.9	2.4		33.3						-33.3
1999		12.8	2.0		14.8					-14.8	1999		1.54	19.7	3.1		22.8						-22.8
2000		16.9	6.3		23.2					-23.2	2000		1.48	25.0	9.3		34.3						-34.3
2001		21.3	0.8		22.1					-22.1	2001		1.42	30.3	1.2		31.5						-31.5
2002		35.8	1.2		37.0					-37.0	2002		1.37	49.0	1.6		50.6						-50.6
2003		16.3	3.3		19.6					-19.6	2003		1.32	21.4	4.4		25.7						-25.7
2004		11.9	1.7		13.6					-13.6	2004		1.27	15.0	2.1		17.2						-17.2
2005		11.5	1.4		12.9					-12.9	2005		1.22	14.0	1.7		15.7						-15.7
2006		32.4	4.9		37.3					-37.3	2006		1.17	37.9	5.7		43.7						-43.7
2007		32.1	4.5		36.6					-36.6	2007		1.12	36.1	5.0		41.2						-41.2
2008		26.8	2.8		29.6					-29.6	2008		1.08	29.0	3.0		32.0						-32.0
2009		33.4	6.2		39.5					-39.5	2009		1.04	34.7	6.4		41.1						-41.1
2010		23.1	2.6		25.7	1.7			1.7	-24.0	2010		1.00	23.1	2.6		25.7	1.7		1.7			-24.0
2011		36.0	4.0		40.0	1.7			1.7	-38.3	2011		0.96	34.6	3.8		38.5	1.6		1.6			-36.8
2012		36.0	4.0		40.0	1.7			1.7	-38.3	2012		0.92	33.3	3.7		37.0	1.6		1.6			-35.4
2013		37.7	4.2		41.9	1.7			1.7	-40.2	2013		0.89	33.5	3.7		37.3	1.5		1.5			-35.7
2014		37.7	4.2		41.9	1.7			1.7	-40.2	2014		0.85	32.2	3.6		35.8	1.4		1.4			-34.4
2015		37.7	4.2		41.9	1.7			1.7	-40.2	2015		0.82	31.0	3.4		34.4	1.4		1.4			-33.1
2016		37.7	4.2		41.9	1.7			1.7	-40.2	2016		0.79	29.8	3.3		33.1	1.3		1.3			-31.8
2017		37.7	4.2		41.9	26.1	7.8		33.9	-8.0	2017		0.76	28.7	3.2		31.8	19.8	5.9	25.8			-6.1
2018		37.7	4.2		41.9	26.1	7.8		33.9	-8.0	2018		0.73	27.6	3.1		30.6	19.1	5.7	24.8			-5.8
2019		37.7	4.2		41.9	26.1	7.8		33.9	-8.0	2019		0.70	26.5	2.9		29.4	18.3	5.5	23.8			-5.6
2020		37.7	4.2		41.9	26.1	7.8		33.9	-8.0	2020		0.68	25.5	2.8		28.3	17.6	5.3	22.9			-5.4
2021		37.7	4.2		41.9	26.1	7.8		33.9	-8.0	2021		0.65	24.5	2.7		27.2	17.0	5.1	22.0			-5.2
2022		37.7	4.2		41.9	26.1	7.8		33.9	-8.0	2022		0.62	23.6	2.6		26.2	16.3	4.9	21.2			-5.0
2023		37.7	4.2		41.9	38.8	22.3		61.0	19.1	2023		0.60	22.7	2.5		25.2	23.3	13.4	36.6			11.5
2024		37.7	4.2		41.9	38.8	22.3		61.0	19.1	2024		0.58	21.8	2.4		24.2	22.4	12.9	35.2			11.0
2025		37.7	4.2		41.9	38.8	22.3		61.0	19.1	2025		0.56	20.9	2.3		23.3	21.5	12.4	33.9			10.6
2026		37.7	4.2		41.9	38.8	22.3		61.0	19.1	2026		0.53	20.1	2.2		22.4	20.7	11.9	32.6			10.2
2027		41.3	0.6		41.9	38.8	22.3		61.0	19.1	2027		0.51	21.2	0.3		21.5	19.9	11.4	31.3			9.8
2028		37.2			37.2	38.8	22.3		61.0	23.8	2028		0.49	18.4			18.4	19.1	11.0	30.1			11.8
2029	1				46.1	61.6			107.7	107.7	2029	1	0.47				21.9	29.2	51.1	51.1			
2030	2				46.1	61.6			107.7	107.7	2030	2	0.46				21.0	28.1	49.1	49.1			
2031	3				46.1	61.6			107.7	107.7	2031	3	0.44				20.2	27.0	47.2	47.2			
2032	4				46.1	61.6			107.7	107.7	2032	4	0.42				19.4	26.0	45.4	45.4			
2033	5				46.1	61.6			107.7	107.7	2033	5	0.41				18.7	25.0	43.7	43.7			
2034	6				46.1	61.6			107.7	107.7	2034	6	0.39				18.0	24.0	42.0	42.0			
2035	7				46.1	61.6			107.7	107.7	2035	7	0.38				17.3	23.1	40.4	40.4			
2036	8				46.1	61.6			107.7	107.7	2036	8	0.36				16.6	22.2	38.8	38.8			
2037	9				46.1	61.6			107.7	107.7	2037	9	0.35				16.0	21.4	37.3	37.3			
2038	10				46.1	61.6			107.7	107.7	2038	10	0.33				15.4	20.5	35.9	35.9			
2039	11				46.1	61.6			107.7	107.7	2039	11	0.32				14.8	19.7	34.5	34.5			
2040	12				46.1	61.6			107.7	107.7	2040	12	0.31				14.2	19.0	33.2	33.2			
2041	13				46.1	61.6			107.7	107.7	2041	13	0.30				13.7	18.3	31.9	31.9			
2042	14				46.1	61.6			107.7	107.7	2042	14	0.29				13.1	17.6	30.7	30.7			
2043	15				46.1	61.6			107.7	107.7	2043	15	0.27				12.6	16.9	29.5	29.5			
2044	16				46.1	61.6			107.7	107.7	2044	16	0.26				12.1	16.2	28.4	28.4			
2045	17				46.1	61.6			107.7	107.7	2045	17	0.25				11.7	15.6	27.3	27.3			
2046	18				46.1	61.6			107.7	107.7	2046	18	0.24				11.2	15.0	26.2	26.2			
2047	19				46.1	61.6			107.7	107.7	2047	19	0.23				10.8	14.4	25.2	25.2			
2048	20				46.1	61.6			107.7	107.7	2048	20	0.23				10.4	13.9	24.3	24.3			
2049	21				46.1	61.6			107.7	107.7	2049	21	0.22				10.0	13.3	23.3	23.3			
2050	22				46.1	61.6			107.7	107.7	2050	22	0.21				9.6	12.8	22.4	22.4			
2051	23				46.1	61.6			107.7	107.7	2051	23	0.20				9.2	12.3	21.6	21.6			
2052	24				46.1	61.6			107.7	107.7	2052	24	0.19				8.9	11.9	20.7	20.7			
2053	25				46.1	61.6			107.7	107.7	2053	25	0.19				8.5	11.4	19.9	19.9			
2054	26				46.1	61.6			107.7	107.7	2054	26	0.18				8.2	11.0	19.2	19.2			
2055	27				46.1	61.6			107.7	107.7	2055	27	0.17				7.9	10.5	18.4	18.4			
2056	28				46.1	61.6			107.7	107.7	2056	28	0.16				7.6	10.1	17.7	17.7			
2057	29				46.1	61.6			107.7	107.7	2057	29	0.16				7.3	9.7	17.0	17.0			
2058	30				46.1	61.6			107.7	107.7	2058	30	0.15				7.0	9.4	16.4	16.4			
2059	31				46.1	61.6			107.7	107.7	2059	31	0.15				6.7	9.0	15.8	15.8			
2060	32				46.1	61.6			107.7	107.7													

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前) (事業全体:費用-10%)

費用便益分析シート(割引後)

EIRR= 4.9% NPV= 332 億円  
B/C= 1.32

(億円)											(億円)												
割引前											割引後												
年度	施設供 用期間	初期投資・ 更新投資 (万円)	初期投資・ 更新投資 (万円)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B)	純便益 (B-C)	年度	施設供 用期間	社会的 割引率	初期投資・ 更新投資 (万円)	初期投資・ 更新投資 (万円)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B)	純便益 (B-C)	
1988											1988		2.37										
1989										-2.1	1989		2.28										-4.6
1990		1.9	0.2		2.1					-6.6	1990		2.19	4.1	0.5		4.6						-14.0
1991		6.0	0.7		6.6					-9.3	1991		2.11	12.6	1.4		14.0						-18.8
1992		8.4	0.9		9.3					-11.4	1992		2.03	16.9	1.9		18.8						-22.2
1993		10.3	1.1		11.4					-7.3	1993		1.95	20.0	2.2		22.2						-13.6
1994		6.6	0.7		7.3					-13.8	1994		1.87	12.3	1.3		13.6						-24.9
1995		11.9	1.9		13.8					-16.9	1995		1.80	21.5	3.4		24.9						-29.2
1996		14.4	2.5		16.9					-10.8	1996		1.73	25.0	4.3		29.2						-17.9
1997		9.7	1.1		10.8					-20.8	1997		1.67	16.1	1.8		17.9						-33.3
1998		19.3	1.5		20.8					-14.8	1998		1.60	30.9	2.4		33.3						-22.8
1999		12.8	2.0		14.8					-23.2	1999		1.54	19.7	3.1		22.8						-34.3
2000		16.9	6.3		23.2					-22.1	2000		1.48	25.0	9.3		34.3						-31.5
2001		21.3	0.8		22.1					-37.0	2001		1.42	30.3	1.2		31.5						-50.6
2002		35.8	1.2		37.0					-19.6	2002		1.37	49.0	1.6		50.6						-25.7
2003		16.3	3.3		19.6					-13.6	2003		1.32	21.4	4.4		25.7						-17.2
2004		11.9	1.7		13.6					-12.9	2004		1.27	15.0	2.1		17.2						-15.7
2005		11.5	1.4		12.9					-37.3	2005		1.22	14.0	1.7		15.7						-43.7
2006		32.4	4.9		37.3					-36.6	2006		1.17	37.9	5.7		43.7						-41.2
2007		32.1	4.5		36.6					-29.0	2007		1.12	36.1	5.0		41.2						-32.0
2008		26.8	2.8		29.6					-39.5	2008		1.08	29.0	3.0		32.0						-41.1
2009		33.4	8.2		39.5					2010		1.00	23.1	2.6		25.7	1.5			1.5		-24.2	
2010		23.1	2.6		25.7	1.5		1.5	-24.2	2011		0.96	31.2	3.5		34.6	1.5			1.5		-31.9	
2011		32.4	3.6		36.0	1.5		1.5	-34.5	2012		0.92	30.0	3.3		33.3	1.4			1.4		-32.2	
2012		32.4	3.6		36.0	1.5		1.5	-34.5	2013		0.89	30.2	3.4		33.5	1.4			1.4		-30.9	
2013		33.9	3.8		37.7	1.5		1.5	-36.2	2014		0.85	29.0	3.2		32.2	1.3			1.3		-29.7	
2014		33.9	3.8		37.7	1.5		1.5	-36.2	2015		0.82	27.9	3.1		31.0	1.3			1.3		-28.6	
2015		33.9	3.8		37.7	1.5		1.5	-36.2	2016		0.79	26.8	3.0		29.8	1.2			1.2		-5.2	
2016		33.9	3.8		37.7	1.5		1.5	-36.2	2017		0.76	25.8	2.9		28.7	1.0	5.4		23.4		-22.5	
2017		33.9	3.8		37.7	23.7	7.1	30.8	-6.9	2018		0.73	24.8	2.8		27.6	1.7	5.2		22.5		-4.8	
2018		33.9	3.8		37.7	23.7	7.1	30.8	-6.9	2019		0.70	23.8	2.6		26.5	1.6	5.0		21.7		-4.7	
2019		33.9	3.8		37.7	23.7	7.1	30.8	-6.9	2020		0.68	22.9	2.5		25.5	1.6	4.8		20.8		-4.5	
2020		33.9	3.8		37.7	23.7	7.1	30.8	-6.9	2021		0.65	22.0	2.4		24.5	1.5	4.6		20.0		-4.3	
2021		33.9	3.8		37.7	23.7	7.1	30.8	-6.9	2022		0.62	21.2	2.4		23.6	1.4	4.4		19.2		-4.3	
2022		33.9	3.8		37.7	23.7	7.1	30.8	-6.9	2023		0.57	20.4	2.3		22.7	1.2	4.2		18.4		-4.3	
2023		33.9	3.8		37.7	35.2	20.2	55.5	17.8	2024		0.58	19.6	2.2		21.8	2.0	4.1		17.7		-4.3	
2024		33.9	3.8		37.7	35.2	20.2	55.5	17.8	2025		0.56	18.8	2.1		20.9	1.9	4.0		17.0		-4.3	
2025		33.9	3.8		37.7	35.2	20.2	55.5	17.8	2026		0.56	18.1	2.0		20.1	1.8	3.9		16.3		-4.3	
2026		33.9	3.8		37.7	35.2	20.2	55.5	17.8	2027		0.51	19.1	0.3		19.4	1.8	3.8		15.5		-4.3	
2027		37.1	0.6		37.7	35.2	20.2	55.5	17.8	2028		0.49	16.5			16.5	1.7	4.0		14.8		-4.3	
2028		33.5			33.5	35.2	20.2	55.5	22.0	2029	1	0.47				19.9	2.6			14.0		-4.3	
2029	1				41.9	56.0		97.9	97.9	2030	2	0.46				19.1	2.6			13.2		-4.3	
2030	2				41.9	56.0		97.9	97.9	2031	3	0.44				18.4	2.4			12.4		-4.3	
2031	3				41.9	56.0		97.9	97.9	2032	4	0.42				17.7	2.3			11.6		-4.3	
2032	4				41.9	56.0		97.9	97.9	2033	5	0.41				17.0	2.2			10.8		-4.3	
2033	5				41.9	56.0		97.9	97.9	2034	6	0.39				16.3	2.1			10.0		-4.3	
2034	6				41.9	56.0		97.9	97.9	2035	7	0.38				15.7	2.0			9.2		-4.3	
2035	7				41.9	56.0		97.9	97.9	2036	8	0.36				15.1	2.0			8.4		-4.3	
2036	8				41.9	56.0		97.9	97.9	2037	9	0.35				14.5	1.9			7.6		-4.3	
2037	9				41.9	56.0		97.9	97.9	2038	10	0.33				14.0	1.8			6.8		-4.3	
2038	10				41.9	56.0		97.9	97.9	2039	11	0.32				13.4	1.8			6.0		-4.3	
2039	11				41.9	56.0		97.9	97.9	2040	12	0.31				12.9	1.7			5.2		-4.3	
2040	12				41.9	56.0		97.9	97.9	2041	13	0.30				12.4	1.6			4.4		-4.3	
2041	13				41.9	56.0		97.9	97.9	2042	14	0.29				11.9	1.6			3.6		-4.3	
2042	14				41.9	56.0		97.9	97.9	2043	15	0.27				11.5	1.5			2.8		-4.3	
2043	15				41.9	56.0		97.9	97.9	2044	16	0.26				11.0	1.4			2.0		-4.3	
2044	16				41.9	56.0		97.9	97.9	2045	17	0.25				10.6	1.4			1.2		-4.3	
2045	17				41.9	56.0		97.9	97.9	2046	18	0.24				10.2	1.3			0.4		-4.3	
2046	18				41.9	56.0		97.9	97.9	2047	19	0.23				9.8	1.3			-0.4		-4.3	
2047	19				41.9	56.0		97.9	97.9	2048	20	0.23				9.4	1.2			-1.2		-4.3	
2048	20				41.9	56.0		97.9	97.9	2049	21	0.22				9.1	1.2			-2.0		-4.3	
2049	21				41.9	56.0		97.9	97.9	2050	22	0.21				8.7	1.1			-2.8		-4.3	
2050	22				41.9	56.0		97.9	97.9	2051	23	0.20				8.4	1.1			-3.6		-4.3	
2051	23				41.9	56.0		97.9	97.9	2052	24	0.19				8.1	1.0			-4.4		-4.3	
2052	24				41.9	56.0		97.9	97.9	2053	25	0.19				7.8	1.0			-5.2		-4.3	
2053	25				41.9	56.0		97.9	97.9	2054	26	0.18				7.5	1.0			-6.0		-4.3	
2054	26				41.9	56.0		97.9	97.9	2055	27	0.17				7.2	0.9			-6.8		-4.3	
2055	27				41.9	56.0		97.9	97.9	2056	28	0.16				6.9	0.9			-7.6		-4.3	
2056	28				41.9	56.0		97.9	97.9	2057	29	0.16				6.6	0.8			-8.4		-4.3	
2057	29				41.9	56.0		97.9	97.9	2058	30	0.15				6.4	0.8			-9.2		-4.3	
2058	30				41.9	56.0		97.9	97.9	2059	31	0.15				6.1	0.8			-10.0		-4.3	
2059	31				41.9	56.0		97.9	97.9	2060	32	0.14				5.9	0.7			-10.8		-4.3	
2060	32				41.9	56.0		97.9	97.9	2061	33	0.14				5.7	0.7			-11.6		-4.3	
2061	33				41.9	56.0		97.9	97.9	2062	34	0.13				5.5	0.7			-12.4		-4.3	
2062	34				41.9	56.0		97.9	97.9	2063	35	0.13				5.2	0.7			-13.2			

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前)

(事業全体:費用+10%) 費用便益分析シート(割引後)

EIRR=	4.6%	NPV=	228 億円
B/C=	1.20		

(億円)										(億円)													
割引前										割引後													
年度	施設供 用期間	初期投資・ 更新投資 (初期)	初期投資・ 更新投資 (中期)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B)	純便益 (B-C)	年度	施設供 用期間	社会的 割引率	初期投資・ 更新投資 (初期)	初期投資・ 更新投資 (中期)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B)	純便益 (B-C)	
1988											1988		2.37										
1989											1989		2.28										
1990		1.9	0.2		2.1				-2.1		1990		2.19	4.1	0.5		4.6						-4.6
1991		6.0	0.7		6.6				-6.6		1991		2.11	12.6	1.4		14.0						-14.0
1992		8.4	0.9		9.3				-9.3		1992		2.03	16.9	1.9		18.8						-18.8
1993		10.3	1.1		11.4				-11.4		1993		1.95	20.0	2.2		22.2						-22.2
1994		6.6	0.7		7.3				-7.3		1994		1.87	12.3	1.3		13.6						-13.6
1995		11.9	1.9		13.8				-13.8		1995		1.80	21.5	3.4		24.9						-24.9
1996		14.4	2.5		16.9				-16.9		1996		1.73	25.0	4.3		29.2						-29.2
1997		9.7	1.1		10.8				-10.8		1997		1.67	16.1	1.8		17.9						-17.9
1998		19.3	1.5		20.8				-20.8		1998		1.60	30.9	2.4		33.3						-33.3
1999		12.8	2.0		14.8				-14.8		1999		1.54	19.7	3.1		22.8						-22.8
2000		16.9	6.3		23.2				-23.2		2000		1.48	25.0	9.3		34.3						-34.3
2001		21.3	0.8		22.1				-22.1		2001		1.42	30.3	1.2		31.5						-31.5
2002		35.8	1.2		37.0				-37.0		2002		1.37	49.0	1.6		50.6						-50.6
2003		16.3	3.3		19.6				-19.6		2003		1.32	21.4	4.4		25.7						-25.7
2004		11.9	1.7		13.6				-13.6		2004		1.27	15.0	2.1		17.2						-17.2
2005		11.5	1.4		12.9				-12.9		2005		1.22	14.0	1.7		15.7						-15.7
2006		32.4	4.9		37.3				-37.3		2006		1.17	37.9	5.7		43.7						-43.7
2007		32.1	4.5		36.6				-36.6		2007		1.12	36.1	5.0		41.2						-41.2
2008		28.8	2.8		31.6				-31.6		2008		1.08	24.9	3.0		32.0						-32.0
2009		33.4	6.2		39.5				-39.5		2009		1.04	34.7	6.4		41.1						-41.1
2010		23.1	2.6		25.7	1.5		1.5	-24.2	1.5	2010		1.00	23.1	2.6		25.7	1.5		1.5	1.5	-24.2	
2011		39.6	4.4		44.0	1.5		1.5	-42.5	1.5	2011		0.96	38.1	4.2		42.3	1.5		1.5	1.5	-40.8	
2012		39.6	4.4		44.0	1.5		1.5	-42.5	1.5	2012		0.92	36.6	4.1		40.7	1.4		1.4	1.4	-39.3	
2013		41.5	4.6		46.1	1.5		1.5	-44.6	1.5	2013		0.89	36.9	4.1		41.0	1.4		1.4	1.4	-39.6	
2014		41.5	4.6		46.1	1.5		1.5	-44.6	1.5	2014		0.85	35.5	3.9		39.4	1.3		1.3	1.3	-38.1	
2015		41.5	4.6		46.1	1.5		1.5	-44.6	1.5	2015		0.82	34.1	3.8		37.9	1.3		1.3	1.3	-36.6	
2016		41.5	4.6		46.1	1.5		1.5	-44.6	1.5	2016		0.78	32.8	3.6		36.4	1.2		1.2	1.2	-35.2	
2017		41.5	4.6		46.1	23.7	7.1	30.8	-15.3	30.8	2017		0.76	31.5	3.5		35.0	18.0	5.4	23.4	23.4	-11.6	
2018		41.5	4.6		46.1	23.7	7.1	30.8	-15.3	30.8	2018		0.73	30.3	3.4		33.7	17.3	5.2	22.5	22.5	-11.2	
2019		41.5	4.6		46.1	23.7	7.1	30.8	-15.3	30.8	2019		0.70	29.1	3.2		32.4	16.7	5.0	21.7	21.7	-10.7	
2020		41.5	4.6		46.1	23.7	7.1	30.8	-15.3	30.8	2020		0.68	28.0	3.1		31.1	16.0	4.8	20.8	20.8	-10.3	
2021		41.5	4.6		46.1	23.7	7.1	30.8	-15.3	30.8	2021		0.65	26.9	3.0		29.9	15.4	4.6	20.0	20.0	-9.9	
2022		41.5	4.6		46.1	23.7	7.1	30.8	-15.3	30.8	2022		0.62	25.9	2.9		28.8	14.8	4.4	19.2	19.2	-9.5	
2023		41.5	4.6		46.1	35.2	20.2	55.5	9.4	20.2	2023		0.60	24.9	2.8		27.7	21.2	12.2	33.3	33.3	5.8	
2024		41.5	4.6		46.1	35.2	20.2	55.5	9.4	20.2	2024		0.58	24.0	2.7		26.6	20.3	11.7	32.0	32.0	5.4	
2025		41.5	4.6		46.1	35.2	20.2	55.5	9.4	20.2	2025		0.56	23.0	2.6		25.6	19.6	11.2	30.8	30.8	5.2	
2026		41.5	4.6		46.1	35.2	20.2	55.5	9.4	20.2	2026		0.53	22.1	2.5		24.6	18.8	10.8	29.6	29.6	5.0	
2027		45.4	0.7		46.1	35.2	20.2	55.5	9.4	20.2	2027		0.51	23.3	0.4		23.7	18.1	10.4	28.5	28.5	4.8	
2028		40.9			40.9	35.2	20.2	55.5	14.6	20.2	2028		0.49	20.2			20.2	17.4	10.0	27.4	27.4	7.2	
2029	1				41.9	56.0		97.9	97.9	2029	1	0.47					19.9	26.6		46.5	46.5		
2030	2				41.9	56.0		97.9	97.9	2030	2	0.46					19.1	25.6		44.7	44.7		
2031	3				41.9	56.0		97.9	97.9	2031	3	0.44					18.4	24.6		43.0	43.0		
2032	4				41.9	56.0		97.9	97.9	2032	4	0.42					17.7	23.6		41.3	41.3		
2033	5				41.9	56.0		97.9	97.9	2033	5	0.41					17.0	22.7		39.7	39.7		
2034	6				41.9	56.0		97.9	97.9	2034	6	0.39					16.3	21.8		38.2	38.2		
2035	7				41.9	56.0		97.9	97.9	2035	7	0.38					15.7	21.0		36.7	36.7		
2036	8				41.9	56.0		97.9	97.9	2036	8	0.36					15.1	20.2		35.3	35.3		
2037	9				41.9	56.0		97.9	97.9	2037	9	0.35					14.5	19.4		33.9	33.9		
2038	10				41.9	56.0		97.9	97.9	2038	10	0.33					14.0	18.7		32.6	32.6		
2039	11				41.9	56.0		97.9	97.9	2039	11	0.32					13.4	18.0		31.4	31.4		
2040	12				41.9	56.0		97.9	97.9	2040	12	0.31					12.9	17.3		30.2	30.2		
2041	13				41.9	56.0		97.9	97.9	2041	13	0.30					12.4	16.6		29.0	29.0		
2042	14				41.9	56.0		97.9	97.9	2042	14	0.29					11.9	16.0		27.9	27.9		
2043	15				41.9	56.0		97.9	97.9	2043	15	0.27					11.5	15.3		26.8	26.8		
2044	16				41.9	56.0		97.9	97.9	2044	16	0.26					11.0	14.8		25.8	25.8		
2045	17				41.9	56.0		97.9	97.9	2045	17	0.25					10.6	14.2		24.8	24.8		
2046	18				41.9	56.0		97.9	97.9	2046	18	0.24					10.2	13.6		23.9	23.9		
2047	19				41.9	56.0		97.9	97.9	2047	19	0.23					9.8	13.1		22.9	22.9		
2048	20				41.9	56.0		97.9	97.9	2048	20	0.23					9.4	12.6		22.1	22.1		
2049	21				41.9	56.0		97.9	97.9	2049	21	0.22					9.1	12.1		21.2	21.2		
2050	22				41.9	56.0		97.9	97.9	2050	22	0.21					8.7	11.7		20.4	20.4		
2051	23				41.9	56.0		97.9	97.9	2051	23	0.20					8.4	11.2		19.6	19.6		
2052	24				41.9	56.0		97.9	97.9	2052	24	0.19					8.1	10.8		18.8	18.8		
2053	25				41.9	56.0		97.9	97.9	2053	25	0.18					7.8	10.4		18.1	18.1		
2054	26				41.9	56.0		97.9	97.9	2054	26	0.18					7.5	10.0		17.4	17.4		
2055	27				41.9	56.0		97.9	97.9	2055	27	0.17					7.2	9.6		16.8	16.8		
2056	28				41.9	56.0		97.9	97.9	2056	28	0.16					6.9	9.2		16.1	16.1		
2057	29				41.9	56.0		97.9	97.9	2057	29	0.16					6.6	8.9		15.5	15.5		
2058	30				41.9	56.0		97.9	97.9	2058	30	0.15					6.4	8.5		14.9	14.9		
2059	31				41.9	56.0		97.9	97.9	2059	31	0.15					6.1	8.2		14.3	14.3		
2060	32				41.9	56.0		97.9	97.9	2060	32	0.14					5.						

久慈港湾口地区防波堤整備事業及び久慈港海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前)

(事業全体:建設期間-10%)

費用便益分析シート(割引後)

EIRR=	4.9%	NPV=	307 億円
B/C=	1.28		

										(億円)													(億円)		
割引前										割引後															
年度	施設提供期間	初期投資・更新投資(改善)	初期投資・更新投資(維持)	運営・維持コスト	総費用(C)	浸水軽減便益	海難回避便益	残存価値	総便益(B)	純便益(B-C)	年度	施設提供期間	社会的割引率	初期投資・更新投資(改善)	初期投資・更新投資(維持)	運営・維持コスト	総費用(C)	浸水軽減便益	海難回避便益	残存価値	総便益(B)	純便益(B-C)			
1988											1988		2.37												
1989											1989		2.28												
1990		1.9	0.2		2.1				-2.1		1990		2.19	4.1	0.5		4.6						-4.6		
1991		6.0	0.7		6.6				-6.6		1991		2.11	12.6	1.4		14.0						-14.0		
1992		8.4	0.9		9.3				-9.3		1992		2.03	16.9	1.9		18.8						-18.8		
1993		10.3	1.1		11.4				-11.4		1993		1.95	20.0	2.2		22.2						-22.2		
1994		6.6	0.7		7.3				-7.3		1994		1.87	12.3	1.3		13.6						-13.6		
1995		11.9	1.9		13.8				-13.8		1995		1.80	21.5	3.4		24.9						-24.9		
1996		14.4	2.5		16.9				-16.9		1996		1.73	25.0	4.3		29.2						-29.2		
1997		9.7	1.1		10.8				-10.8		1997		1.67	16.1	1.8		17.9						-17.9		
1998		19.3	1.5		20.8				-20.8		1998		1.60	30.9	2.4		33.3						-33.3		
1999		12.8	2.0		14.8				-14.8		1999		1.54	19.7	3.1		22.8						-22.8		
2000		16.9	6.3		23.2				-23.2		2000		1.48	25.0	9.3		34.3						-34.3		
2001		21.3	0.8		22.1				-22.1		2001		1.42	30.3	1.2		31.5						-31.5		
2002		35.8	1.2		37.0				-37.0		2002		1.37	49.0	1.6		50.6						-50.6		
2003		16.3	3.3		19.6				-19.6		2003		1.32	21.4	4.4		25.7						-25.7		
2004		11.9	1.7		13.6				-13.6		2004		1.27	15.0	2.1		17.2						-17.2		
2005		11.5	1.4		12.9				-12.9		2005		1.22	14.0	1.7		15.7						-15.7		
2006		32.4	4.9		37.3				-37.3		2006		1.17	37.9	5.7		43.7						-43.7		
2007		32.1	4.5		36.6				-36.6		2007		1.12	36.1	5.0		41.2						-41.2		
2008		26.8	2.8		29.6				-29.6		2008		1.08	29.0	3.0		32.0						-32.0		
2009		33.4	6.2		39.5				-39.5		2009		1.04	34.7	6.4		41.1						-41.1		
2010		23.1	2.6		25.7	1.5			1.5	-24.2	2010		1.00	23.1	2.6		25.7	1.5					1.5		
2011		40.7	4.0		44.7	1.5			1.5	-43.2	2011		0.96	39.1	3.9		43.0	1.5					1.5		
2012		40.7	4.0		44.7	1.5			1.5	-43.2	2012		0.92	37.6	3.7		41.4	1.4					1.4		
2013		42.6	4.2		46.9	1.5			1.5	-45.3	2013		0.89	37.9	3.8		41.7	1.4					1.4		
2014		42.6	4.2		46.9	1.5			1.5	-45.3	2014		0.85	36.5	3.6		40.1	1.3					1.3		
2015		42.6	4.2		46.9	1.5			1.5	-45.3	2015		0.82	35.1	3.5		38.5	1.3					1.3		
2016		42.6	4.2		46.9	1.5			1.5	-45.3	2016		0.79	33.7	3.3		37.0	1.2					1.2		
2017		42.6	4.2		46.9	23.7	7.1		30.8	-16.1	2017		0.76	32.4	3.2		35.6	18.0	5.4				23.4		
2018		42.6	4.2		46.9	23.7	7.1		30.8	-16.1	2018		0.73	31.2	3.1		34.3	17.3	5.2				22.5		
2019		42.6	4.2		46.9	23.7	7.1		30.8	-16.1	2019		0.70	30.0	3.0		32.9	16.7	5.0				21.7		
2020		42.6	4.2		46.9	23.7	7.1		30.8	-16.1	2020		0.68	28.8	2.9		31.7	16.0	4.8				20.8		
2021		42.6	4.2		46.9	23.7	7.1		30.8	-16.1	2021		0.65	27.7	2.7		30.4	15.4	4.6				20.0		
2022		42.6	4.2		46.9	35.2	20.2		55.5	8.6	2022		0.62	26.6	2.6		29.3	22.0	12.6				34.6		
2023		42.6	4.2		46.9	35.2	20.2		55.5	8.6	2023		0.60	25.6	2.5		28.2	21.2	12.2				33.3		
2024		42.6	4.2		46.9	35.2	20.2		55.5	8.6	2024		0.58	24.6	2.4		27.1	20.3	11.7				32.0		
2025		42.6	4.2		46.9	35.2	20.2		55.5	8.6	2025		0.56	23.7	2.3		26.0	19.6	11.2				30.8		
2026		42.6	4.2		46.9	35.2	20.2		55.5	8.6	2026		0.53	22.8	2.3		25.0	18.8	10.8				29.6		
2027	1				41.9	56.0			97.9	97.9	2027	1		0.51				21.5	28.7				50.3		
2028	2				41.9	56.0			97.9	97.9	2028	2		0.49				20.7	27.6				48.3		
2029	3				41.9	56.0			97.9	97.9	2029	3		0.47				19.9	26.6				46.5		
2030	4				41.9	56.0			97.9	97.9	2030	4		0.46				19.1	25.6				44.7		
2031	5				41.9	56.0			97.9	97.9	2031	5		0.44				18.4	24.6				43.0		
2032	6				41.9	56.0			97.9	97.9	2032	6		0.42				17.7	23.6				41.3		
2033	7				41.9	56.0			97.9	97.9	2033	7		0.41				17.0	22.7				39.7		
2034	8				41.9	56.0			97.9	97.9	2034	8		0.39				16.3	21.8				38.2		
2035	9				41.9	56.0			97.9	97.9	2035	9		0.38				15.7	21.0				36.7		
2036	10				41.9	56.0			97.9	97.9	2036	10		0.36				15.1	20.2				35.3		
2037	11				41.9	56.0			97.9	97.9	2037	11		0.35				14.5	19.4				33.9		
2038	12				41.9	56.0			97.9	97.9	2038	12		0.33				14.0	18.7				32.6		
2039	13				41.9	56.0			97.9	97.9	2039	13		0.32				13.4	18.0				31.4		
2040	14				41.9	56.0			97.9	97.9	2040	14		0.31				12.9	17.3				30.2		
2041	15				41.9	56.0			97.9	97.9	2041	15		0.30				12.4	16.6				29.0		
2042	16				41.9	56.0			97.9	97.9	2042	16		0.29				11.9	16.0				27.9		
2043	17				41.9	56.0			97.9	97.9	2043	17		0.27				11.5	15.3				26.8		
2044	18				41.9	56.0			97.9	97.9	2044	18		0.26				11.0	14.8				25.8		
2045	19				41.9	56.0			97.9	97.9	2045	19		0.25				10.6	14.2				24.8		
2046	20				41.9	56.0			97.9	97.9	2046	20		0.24				10.2	13.6				23.9		
2047	21				41.9	56.0			97.9	97.9	2047	21		0.23				9.8	13.1				22.9		
2048	22				41.9	56.0			97.9	97.9	2048	22		0.23				9.4	12.6				22.1		
2049	23				41.9	56.0			97.9	97.9	2049	23		0.22				9.1	12.1				21.2		
2050	24				41.9	56.0			97.9	97.9	2050	24		0.21				8.7	11.7				20.4		
2051	25				41.9	56.0			97.9	97.9	2051	25		0.20				8.4	11.2				19.6		
2052	26				41.9	56.0			97.9	97.9	2052	26		0.19				8.1	10.8				18.8		
2053	27				41.9	56.0			97.9	97.9	2053	27		0.19				7.8	10.4				18.1		
2054	28				41.9	56.0			97.9	97.9	2054	28		0.18				7.5	10.0				17.4		
2055	29				41.9	56.0			97.9	97.9	2055	29		0.17				7.2	9.6				16.8		
2056	30				41.9	56.0			97.9	97.9	2056	30		0.16				6.9	9.2				16.1		
2057	31				41.9	56.0			97.9	97.9	2057	31		0.16				6.6	8.9				15.5		
2058	32				41.9	56.0			97.9	97.9	2058	32		0.15				6.4	8.5				14.9		
2059	33				41.9	56.0			97.9	97.9	2059	33		0.15				6.1	8.2				14.3		
2060	34				41.9	56.0			97.9	97.9	2060	34		0.14				5.9	7.9				13.8		
2061	35				41.9	56.0			97.9	97.9	2061	35		0.14				5.7	7.6				13.2		
2062	36				41.9	56.0			97.9																

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前)

(事業全体:建設期間+10%)

費用便益分析シート(割引後)

EIRR=	4.6%	NPV=	218 億円
B/C=	1.20		

割引前										割引後													
年度	施設供用期間	初期投資・更新投資(改修)	初期投資・更新投資(海岸)	運営・維持コスト	総費用(C)	浸水軽減便益	海難回避便益	残存価値	総便益(B)	純便益(B-C)	年度	施設供用期間	社会的割引率	初期投資・更新投資(改修)	初期投資・更新投資(海岸)	運営・維持コスト	総費用(C)	浸水軽減便益	海難回避便益	残存価値	総便益(B)	純便益(B-C)	
1988											1988												
1989											1989												
1990		1.9	0.2		2.1					-2.1	1990		2.19	4.1	0.5		4.6						-4.6
1991		6.0	0.7		6.6					-6.6	1991		2.11	12.6	1.4		14.0						-14.0
1992		8.4	0.9		9.3					-9.3	1992		2.03	16.9	1.9		18.8						-18.8
1993		10.3	1.1		11.4					-11.4	1993		1.95	20.0	2.2		22.2						-22.2
1994		6.6	0.7		7.3					-7.3	1994		1.87	12.3	1.3		13.6						-13.6
1995		11.9	1.9		13.8					-13.8	1995		1.80	21.5	3.4		24.9						-24.9
1996		14.4	2.5		16.9					-16.9	1996		1.73	25.0	4.3		29.2						-29.2
1997		9.7	1.1		10.8					-10.8	1997		1.67	16.1	1.8		17.9						-17.9
1998		19.3	1.5		20.8					-20.8	1998		1.60	30.9	2.4		33.3						-33.3
1999		12.8	2.0		14.8					-14.8	1999		1.54	19.7	3.1		22.8						-22.8
2000		16.9	6.3		23.2					-23.2	2000		1.48	25.0	9.3		34.3						-34.3
2001		21.3	0.8		22.1					-22.1	2001		1.42	30.3	1.2		31.5						-31.5
2002		35.8	1.2		37.0					-37.0	2002		1.37	49.0	1.6		50.6						-50.6
2003		16.3	3.3		19.6					-19.6	2003		1.32	21.4	4.4		25.7						-25.7
2004		11.9	1.7		13.6					-13.6	2004		1.27	15.0	2.1		17.2						-17.2
2005		11.5	1.4		12.9					-12.9	2005		1.22	14.0	1.7		15.7						-15.7
2006		32.4	4.9		37.3					-37.3	2006		1.17	37.9	5.7		43.7						-43.7
2007		32.1	4.5		36.6					-36.6	2007		1.12	36.1	5.0		41.2						-41.2
2008		26.8	2.8		29.6					-29.6	2008		1.08	29.0	3.0		32.0						-32.0
2009		33.4	6.2		39.5					-39.5	2009		1.04	34.7	6.4		41.1						-41.1
2010		23.1	2.6		25.7	1.5			1.5	-24.2	2010		1.00	23.1	2.6		25.7	1.5			1.5		-24.2
2011		32.4	3.9		36.3	1.5			1.5	-34.8	2011		0.96	31.2	3.7		34.9	1.5			1.5		-33.5
2012		32.4	3.9		36.3	1.5			1.5	-34.8	2012		0.92	30.0	3.6		33.6	1.4			1.4		-32.2
2013		34.0	4.1		38.1	1.5			1.5	-36.5	2013		0.89	30.2	3.6		33.8	1.4			1.4		-32.5
2014		34.0	4.1		38.1	1.5			1.5	-36.5	2014		0.85	29.1	3.5		32.5	1.3			1.3		-31.2
2015		34.0	4.1		38.1	1.5			1.5	-36.5	2015		0.82	27.9	3.3		31.3	1.3			1.3		-30.0
2016		34.0	4.1		38.1	1.5			1.5	-36.5	2016		0.79	26.9	3.2		30.1	1.2			1.2		-28.9
2017		34.0	4.1		38.1	1.5			1.5	-36.5	2017		0.76	25.8	3.1		28.9	1.2			1.2		-27.8
2018		34.0	4.1		38.1	23.7	7.1		30.8	-7.2	2018		0.73	24.8	3.0		27.8	17.3	5.2		22.5		-5.3
2019		34.0	4.1		38.1	23.7	7.1		30.8	-7.2	2019		0.70	23.9	2.9		26.7	16.7	5.0		21.7		-5.1
2020		34.0	4.1		38.1	23.7	7.1		30.8	-7.2	2020		0.67	23.0	2.8		25.7	16.0	4.8		20.8		-4.9
2021		34.0	4.1		38.1	23.7	7.1		30.8	-7.2	2021		0.65	22.1	2.6		24.7	15.4	4.6		20.0		-4.7
2022		34.0	4.1		38.1	23.7	7.1		30.8	-7.2	2022		0.62	21.2	2.5		23.8	14.8	4.4		19.2		-4.5
2023		34.0	4.1		38.1	23.7	7.1		30.8	-7.2	2023		0.60	20.4	2.4		22.9	14.3	4.3		18.5		-4.4
2024		34.0	4.1		38.1	23.7	7.1		30.8	-7.2	2024		0.58	19.6	2.4		22.0	13.7	4.1		17.8		-4.2
2025		34.0	4.1		38.1	35.2	20.2		55.5	17.4	2025		0.56	18.9	2.3		21.1	19.6	11.2		30.8		9.7
2026		34.0	4.1		38.1	35.2	20.2		55.5	17.4	2026		0.53	18.1	2.2		20.3	18.8	10.8		29.6		9.3
2027		37.2	0.6		37.8	35.2	20.2		55.5	17.7	2027		0.51	19.1	0.3		19.4	18.1	10.4		28.5		9.1
2028		33.5	0.6		34.1	35.2	20.2		55.5	21.3	2028		0.49	18.5	0.3		18.9	17.4	10.0		27.4		10.5
2029		33.5	0.6		34.1	35.2	20.2		55.5	21.3	2029		0.47	15.9	0.30		16.2	16.7	9.6		26.3		10.1
2030		33.5	0.6		34.1	35.2	20.2		55.5	21.3	2030		0.46	15.3	0.29		15.6	16.1	9.2		25.3		9.7
2031	1				41.9	56.0			97.9	97.9	2031	1	0.44				18.4	24.6			43.0		43.0
2032	2				41.9	56.0			97.9	97.9	2032	2	0.42				17.7	23.6			41.3		41.3
2033	3				41.9	56.0			97.9	97.9	2033	3	0.41				17.0	22.7			39.7		39.7
2034	4				41.9	56.0			97.9	97.9	2034	4	0.39				16.3	21.8			38.2		38.2
2035	5				41.9	56.0			97.9	97.9	2035	5	0.38				15.7	21.0			36.7		36.7
2036	6				41.9	56.0			97.9	97.9	2036	6	0.36				15.1	20.2			35.3		35.3
2037	7				41.9	56.0			97.9	97.9	2037	7	0.35				14.5	19.4			33.9		33.9
2038	8				41.9	56.0			97.9	97.9	2038	8	0.33				14.0	18.7			32.6		32.6
2039	9				41.9	56.0			97.9	97.9	2039	9	0.32				13.4	18.0			31.4		31.4
2040	10				41.9	56.0			97.9	97.9	2040	10	0.31				12.9	17.3			30.2		30.2
2041	11				41.9	56.0			97.9	97.9	2041	11	0.30				12.4	16.6			29.0		29.0
2042	12				41.9	56.0			97.9	97.9	2042	12	0.29				11.9	16.0			27.9		27.9
2043	13				41.9	56.0			97.9	97.9	2043	13	0.27				11.5	15.3			26.8		26.8
2044	14				41.9	56.0			97.9	97.9	2044	14	0.26				11.0	14.8			25.8		25.8
2045	15				41.9	56.0			97.9	97.9	2045	15	0.25				10.6	14.2			24.8		24.8
2046	16				41.9	56.0			97.9	97.9	2046	16	0.24				10.2	13.6			23.9		23.9
2047	17				41.9	56.0			97.9	97.9	2047	17	0.23				9.8	13.1			22.9		22.9
2048	18				41.9	56.0			97.9	97.9	2048	18	0.22				9.4	12.6			22.1		22.1
2049	19				41.9	56.0			97.9	97.9	2049	19	0.23				9.1	12.1			21.2		21.2
2050	20				41.9	56.0			97.9	97.9	2050	20	0.21				8.7	11.7			20.4		20.4
2051	21				41.9	56.0			97.9	97.9	2051	21	0.20				8.4	11.2			19.6		19.6
2052	22				41.9	56.0			97.9	97.9	2052	22	0.19				8.1	10.8			18.8		18.8
2053	23				41.9	56.0			97.9	97.9	2053	23	0.19				7.8	10.4			18.1		18.1
2054	24				41.9	56.0			97.9	97.9	2054	24	0.18				7.5	10.0			17.4		17.4
2055	25				41.9	56.0			97.9	97.9	2055	25	0.17				7.2	9.6			16.8		16.8
2056	26				41.9	56.0			97.9	97.9	2056	26	0.16				6.9	9.2			16.1		16.1
2057	27				41.9	56.0			97.9	97.9	2057	27	0.16				6.6	8.9			15.5		15.5
2058	28				41.9	56.0			97.9	97.9	2058	28	0.15				6.4	8.5			14.9		14.9
2059	29				41.9	56.0			97.9	97.9	2059	29	0.15				6.1	8.2			14.3		14.3
2060	30				41.9	56.0			97.9	97.9	2060	30	0.14				5.9</						

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前)

(事業費:基本)

費用便益分析シート(割引後)

EIRR= 9.5% NPV= 800 億円  
B/C= 2.53

(億円)										(億円)										
年度	施設供用期間	初期投資・更新投資 (後発)		運営・維持コスト	割引前		残存価値	総便益 (B)	純便益 (B-C)	年度	施設供用期間	社会的割引率	初期投資・更新投資 (後発)		運営・維持コスト	割引後		残存価値	総便益 (B)	純便益 (B-C)
		初期投資	更新投資		浸水軽減便益	海難回避便益							初期投資	更新投資		浸水軽減便益	海難回避便益			
1988										1988		2.37								
1989										1989		2.28								
1990										1990		2.19								
1991										1991		2.11								
1992										1992		2.03								
1993										1993		1.95								
1994										1994		1.87								
1995										1995		1.80								
1996										1996		1.73								
1997										1997		1.67								
1998										1998		1.60								
1999										1999		1.54								
2000										2000		1.48								
2001										2001		1.42								
2002										2002		1.37								
2003										2003		1.32								
2004										2004		1.27								
2005										2005		1.22								
2006										2006		1.17								
2007										2007		1.12								
2008										2008		1.08								
2009										2009		1.04								
2010										2010		1.00								
2011		36.0	4.0	40.0				-40.0		2011		0.96	34.6	3.8	38.5					-38.5
2012		36.0	4.0	40.0				-40.0		2012		0.92	33.3	3.7	37.0					-37.0
2013		37.7	4.2	41.9				-41.9		2013		0.89	33.5	3.7	37.3					-37.3
2014		37.7	4.2	41.9				-41.9		2014		0.85	32.2	3.6	35.8					-35.8
2015		37.7	4.2	41.9				-41.9		2015		0.82	31.0	3.4	34.4					-34.4
2016		37.7	4.2	41.9				-41.9		2016		0.79	29.8	3.3	33.1					-33.1
2017		37.7	4.2	41.9	22.2	7.1		29.3	-12.6	2017		0.76	28.7	3.2	31.8	16.9	5.4	22.3		-9.6
2018		37.7	4.2	41.9	22.2	7.1		29.3	-12.6	2018		0.73	27.6	3.1	30.6	16.2	5.2	21.4		-9.2
2019		37.7	4.2	41.9	22.2	7.1		29.3	-12.6	2019		0.70	26.5	2.9	29.4	15.6	5.0	20.6		-8.9
2020		37.7	4.2	41.9	22.2	7.1		29.3	-12.6	2020		0.68	25.5	2.8	28.3	15.0	4.8	19.8		-8.5
2021		37.7	4.2	41.9	22.2	7.1		29.3	-12.6	2021		0.65	24.5	2.7	27.2	14.4	4.6	19.0		-8.2
2022		37.7	4.2	41.9	22.2	7.1		29.3	-12.6	2022		0.62	23.6	2.6	26.2	13.9	4.4	18.3		-7.9
2023		37.7	4.2	41.9	33.7	20.2		53.9	12.0	2023		0.60	22.7	2.5	25.2	20.2	12.2	32.4		7.2
2024		37.7	4.2	41.9	33.7	20.2		53.9	12.0	2024		0.58	21.8	2.4	24.2	19.5	11.7	31.1		6.9
2025		37.7	4.2	41.9	33.7	20.2		53.9	12.0	2025		0.56	20.9	2.3	23.3	18.7	11.2	29.9		6.7
2026		37.7	4.2	41.9	33.7	20.2		53.9	12.0	2026		0.53	20.1	2.2	22.4	18.0	10.8	28.8		6.4
2027		41.3	0.6	41.9	33.7	20.2		53.9	12.0	2027		0.51	21.2	0.3	21.5	17.3	10.4	27.7		6.2
2028		37.2		37.2	33.7	20.2		53.9	16.8	2028		0.49	18.4		18.4	16.6	10.0	26.6		8.3
2029	1			40.4	56.0			96.3	96.3	2029	1	0.47				19.2	26.6	45.7		45.7
2030	2			40.4	56.0			96.3	96.3	2030	2	0.46				18.4	25.6	44.0		44.0
2031	3			40.4	56.0			96.3	96.3	2031	3	0.44				17.7	24.6	42.3		42.3
2032	4			40.4	56.0			96.3	96.3	2032	4	0.42				17.0	23.6	40.7		40.7
2033	5			40.4	56.0			96.3	96.3	2033	5	0.41				16.4	22.7	39.1		39.1
2034	6			40.4	56.0			96.3	96.3	2034	6	0.39				15.7	21.8	37.6		37.6
2035	7			40.4	56.0			96.3	96.3	2035	7	0.38				15.1	21.0	36.1		36.1
2036	8			40.4	56.0			96.3	96.3	2036	8	0.36				14.6	20.2	34.8		34.8
2037	9			40.4	56.0			96.3	96.3	2037	9	0.35				14.0	19.4	33.4		33.4
2038	10			40.4	56.0			96.3	96.3	2038	10	0.33				13.5	18.7	32.1		32.1
2039	11			40.4	56.0			96.3	96.3	2039	11	0.32				12.9	18.0	30.9		30.9
2040	12			40.4	56.0			96.3	96.3	2040	12	0.31				12.4	17.3	29.7		29.7
2041	13			40.4	56.0			96.3	96.3	2041	13	0.30				12.0	16.6	28.6		28.6
2042	14			40.4	56.0			96.3	96.3	2042	14	0.29				11.5	16.0	27.5		27.5
2043	15			40.4	56.0			96.3	96.3	2043	15	0.27				11.1	15.3	26.4		26.4
2044	16			40.4	56.0			96.3	96.3	2044	16	0.26				10.6	14.8	25.4		25.4
2045	17			40.4	56.0			96.3	96.3	2045	17	0.25				10.2	14.2	24.4		24.4
2046	18			40.4	56.0			96.3	96.3	2046	18	0.24				9.8	13.6	23.5		23.5
2047	19			40.4	56.0			96.3	96.3	2047	19	0.23				9.5	13.1	22.6		22.6
2048	20			40.4	56.0			96.3	96.3	2048	20	0.23				9.1	12.6	21.7		21.7
2049	21			40.4	56.0			96.3	96.3	2049	21	0.22				8.7	12.1	20.9		20.9
2050	22			40.4	56.0			96.3	96.3	2050	22	0.21				8.4	11.7	20.1		20.1
2051	23			40.4	56.0			96.3	96.3	2051	23	0.20				8.1	11.2	19.3		19.3
2052	24			40.4	56.0			96.3	96.3	2052	24	0.19				7.8	10.8	18.6		18.6
2053	25			40.4	56.0			96.3	96.3	2053	25	0.19				7.5	10.4	17.8		17.8
2054	26			40.4	56.0			96.3	96.3	2054	26	0.18				7.2	10.0	17.2		17.2
2055	27			40.4	56.0			96.3	96.3	2055	27	0.17				6.9	9.6	16.5		16.5
2056	28			40.4	56.0			96.3	96.3	2056	28	0.16				6.6	9.2	15.9		15.9
2057	29			40.4	56.0			96.3	96.3	2057	29	0.16				6.4	8.9	15.2		15.2
2058	30			40.4	56.0			96.3	96.3	2058	30	0.15				6.1	8.5	14.7		14.7
2059	31			40.4	56.0			96.3	96.3	2059	31	0.15				5.9	8.2	14.1		14.1
2060	32			40.4	56.0			96.3	96.3	2060	32	0.14				5.7	7.9	13.6		13.6
2061	33			40.4	56.0			96.3	96.3	2061	33	0.14				5.5	7.6	13.0		13.0
2062	34			40.4	56.0			96.3	96.3	2062	34	0.13				5.3	7.3	12.5		12.5
2063	35			40.4	56.0			96.3	96.3	2063	35	0.13				5.0	7.0	12.1		12.1
2064	36			40.4	56.0			96.3	96.3	2064	36	0.12				4.9	6.7	11.6		11.6
2065	37			40.4	56.0			96.3	96.3	2065	37	0.12				4.7	6.5	11.1		11.1
2066	38			40.4	56.0			96.3	96.3	2066	38	0.11				4.5	6.2	10.7		10.7
2067	39			40.4	56.0			96.3	96.3	2067	39	0.11				4.3	6.0	10.3		10.3
2068	40			40.4	56.0			96.3	96.3	2068	40	0.10				4.1	5.8	9.9		9.9
2069	41			40.4	56.0			96.3	96.3	2069	41	0.10				4.0	5.5	9.5		9.5
2070	42			40.4	56.0			96.3	96.3	2070	42	0.10				3.8	5.3	9.2		9.2
2071	43			40.4	56.0			96.3	96.3	2071	43	0.09				3.7	5.1	8.8		8.8
2072	44			40.4	56.0			96.3	96.3	2072	44	0.09				3.5	4.9			

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前)

(残事業:需要-10%) 費用便益分析シート(割引後)

EIRR=	8.7%	NPV=	688 億円
B/C=	2.27		

割引前 (億円)											割引後 (億円)											
年度	施設供 用期間	初期投資・ 更新投資 (改修)	初期投資・ 更新投資 (増設)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B)	純便益 (B-C)	年度	施設供 用期間	社会的 割引率	初期投資・ 更新投資 (改修)	初期投資・ 更新投資 (増設)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B)	純便益 (B-C)
1988											1988		2.37									
1989											1989		2.28									
1990											1990		2.19									
1991											1991		2.11									
1992											1992		2.03									
1993											1993		1.95									
1994											1994		1.87									
1995											1995		1.80									
1996											1996		1.73									
1997											1997		1.67									
1998											1998		1.60									
1999											1999		1.54									
2000											2000		1.48									
2001											2001		1.42									
2002											2002		1.37									
2003											2003		1.32									
2004											2004		1.27									
2005											2005		1.22									
2006											2006		1.17									
2007											2007		1.12									
2008											2008		1.08									
2009											2009		1.04									
2010											2010		1.00									
2011		36.0	4.0		40.0					-40.0	2011		0.96	34.6	3.8		38.5					-38.5
2012		36.0	4.0		40.0					-40.0	2012		0.92	33.3	3.7		37.0					-37.0
2013		37.7	4.2		41.9					-41.9	2013		0.89	33.5	3.7		37.3					-37.3
2014		37.7	4.2		41.9					-41.9	2014		0.85	32.2	3.6		35.8					-35.8
2015		37.7	4.2		41.9					-41.9	2015		0.82	31.0	3.4		34.4					-34.4
2016		37.7	4.2		41.9					-41.9	2016		0.79	29.8	3.3		33.1					-33.1
2017		37.7	4.2		41.9	20.0	6.4		26.4	-15.6	2017		0.76	28.7	3.2		31.8	15.2	4.8		20.0	-11.8
2018		37.7	4.2		41.9	20.0	6.4		26.4	-15.6	2018		0.73	27.6	3.1		30.6	14.6	4.7		19.3	-11.4
2019		37.7	4.2		41.9	20.0	6.4		26.4	-15.6	2019		0.70	26.5	2.9		29.4	14.0	4.5		18.5	-10.9
2020		37.7	4.2		41.9	20.0	6.4		26.4	-15.6	2020		0.68	25.5	2.8		28.3	13.5	4.3		17.8	-10.5
2021		37.7	4.2		41.9	20.0	6.4		26.4	-15.6	2021		0.65	24.5	2.7		27.2	13.0	4.1		17.1	-10.1
2022		37.7	4.2		41.9	20.0	6.4		26.4	-15.6	2022		0.62	23.6	2.6		26.2	12.5	4.0		16.5	-9.7
2023		37.7	4.2		41.9	30.3	18.2		48.5	6.6	2023		0.60	22.7	2.5		25.2	18.2	10.9		29.2	4.0
2024		37.7	4.2		41.9	30.3	18.2		48.5	6.6	2024		0.58	21.8	2.4		24.2	17.5	10.5		28.0	3.8
2025		37.7	4.2		41.9	30.3	18.2		48.5	6.6	2025		0.56	20.9	2.3		23.3	16.8	10.1		27.0	3.7
2026		37.7	4.2		41.9	30.3	18.2		48.5	6.6	2026		0.53	20.1	2.2		22.4	16.2	9.7		25.9	3.5
2027		41.3	0.6		41.9	30.3	18.2		48.5	6.6	2027		0.51	21.2	0.3		21.5	15.6	9.4		24.9	3.4
2028		37.2			37.2	30.3	18.2		48.5	11.4	2028		0.49	18.4			18.4	15.0	9.0		24.0	5.6
2029	1					36.3	50.4		86.7	86.7	2029	1	0.47				17.2	23.9			41.2	41.2
2030	2					36.3	50.4		86.7	86.7	2030	2	0.46				16.6	23.0			39.6	39.6
2031	3					36.3	50.4		86.7	86.7	2031	3	0.44				15.9	22.1			38.1	38.1
2032	4					36.3	50.4		86.7	86.7	2032	4	0.42				15.3	21.3			36.6	36.6
2033	5					36.3	50.4		86.7	86.7	2033	5	0.41				14.7	20.4			35.2	35.2
2034	6					36.3	50.4		86.7	86.7	2034	6	0.39				14.2	19.7			33.8	33.8
2035	7					36.3	50.4		86.7	86.7	2035	7	0.38				13.6	18.9			32.5	32.5
2036	8					36.3	50.4		86.7	86.7	2036	8	0.36				13.1	18.2			31.3	31.3
2037	9					36.3	50.4		86.7	86.7	2037	9	0.35				12.6	17.5			30.1	30.1
2038	10					36.3	50.4		86.7	86.7	2038	10	0.33				12.1	16.8			28.9	28.9
2039	11					36.3	50.4		86.7	86.7	2039	11	0.32				11.6	16.2			27.8	27.8
2040	12					36.3	50.4		86.7	86.7	2040	12	0.31				11.2	15.5			26.7	26.7
2041	13					36.3	50.4		86.7	86.7	2041	13	0.30				10.8	14.9			25.7	25.7
2042	14					36.3	50.4		86.7	86.7	2042	14	0.29				10.4	14.4			24.7	24.7
2043	15					36.3	50.4		86.7	86.7	2043	15	0.27				10.0	13.8			23.8	23.8
2044	16					36.3	50.4		86.7	86.7	2044	16	0.26				9.6	13.3			22.9	22.9
2045	17					36.3	50.4		86.7	86.7	2045	17	0.25				9.2	12.8			22.0	22.0
2046	18					36.3	50.4		86.7	86.7	2046	18	0.24				8.9	12.3			21.1	21.1
2047	19					36.3	50.4		86.7	86.7	2047	19	0.23				8.5	11.8			20.3	20.3
2048	20					36.3	50.4		86.7	86.7	2048	20	0.23				8.2	11.4			19.5	19.5
2049	21					36.3	50.4		86.7	86.7	2049	21	0.22				7.9	10.9			18.8	18.8
2050	22					36.3	50.4		86.7	86.7	2050	22	0.21				7.6	10.5			18.1	18.1
2051	23					36.3	50.4		86.7	86.7	2051	23	0.20				7.3	10.1			17.4	17.4
2052	24					36.3	50.4		86.7	86.7	2052	24	0.19				7.0	9.7			16.7	16.7
2053	25					36.3	50.4		86.7	86.7	2053	25	0.19				6.7	9.3			16.1	16.1
2054	26					36.3	50.4		86.7	86.7	2054	26	0.18				6.5	9.0			15.4	15.4
2055	27					36.3	50.4		86.7	86.7	2055	27	0.17				6.2	8.6			14.8	14.8
2056	28					36.3	50.4		86.7	86.7	2056	28	0.16				6.0	8.3			14.3	14.3
2057	29					36.3	50.4		86.7	86.7	2057	29	0.16				5.7	8.0			13.7	13.7
2058	30					36.3	50.4		86.7	86.7	2058	30	0.15				5.5	7.7			13.2	13.2
2059	31					36.3	50.4		86.7	86.7	2059	31	0.15				5.3	7.4			12.7	12.7
2060	32					36.3	50.4		86.7	86.7	2060	32	0.14				5.1	7.1			12.2	12.2
2061	33					36.3	50.4		86.7	86.7	2061	33	0.14				4.9	6.8			11.7	11.7
2062	34					36.3	50.4		86.7	86.7	2062	34	0.13				4.7	6.6			11.3	11.3
2063	35					36.3	50.4		86.7	86.7	2063	35	0.13				4.5	6.3			10.8	10.8
2064	36					36.3	50.4		86.7	86.7	2064	36	0.12				4.4	6.1			10.4	10.4
2065	37					36.3	50.4		86.7	86.7	2065	37	0.12				4.2	5.8			10.0	10.0
2066	38					36.3	50.4		86.7	86.7	2066	38	0.11				4.0	5.6			9.6	9.6
2067	39					36.3	50.4		86.7	86.7	2067	39	0.11				3.9	5.4			9.3	9.3
2068	40					36.3	50.4															

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前) (※事業:需要+10%)

費用便益分析シート(割引後)

EIRR= 10.3% NPV= 932 億円  
B/C= 2.78

(億円)										
年度	割引前							残存価値	総便益 (B)	純便益 (B-C)
	施設供用期間	初期投資・更新投資 (便益)	初期投資・更新投資 (コスト)	運営・維持コスト	総費用 (C)	浸水軽減便益	海難回避便益			
1988										
1989										
1990										
1991										
1992										
1993										
1994										
1995										
1996										
1997										
1998										
1999										
2000										
2001										
2002										
2003										
2004										
2005										
2006										
2007										
2008										
2009										
2010										
2011	36.0	4.0	40.0					-40.0		
2012	36.0	4.0	40.0					-40.0		
2013	37.7	4.2	41.9					-41.9		
2014	37.7	4.2	41.9					-41.9		
2015	37.7	4.2	41.9					-41.9		
2016	37.7	4.2	41.9					-41.9		
2017	37.7	4.2	41.9	24.4	7.8			32.2		24.5
2018	37.7	4.2	41.9	24.4	7.8			32.2		23.5
2019	37.7	4.2	41.9	24.4	7.8			32.2		22.6
2020	37.7	4.2	41.9	24.4	7.8			32.2		21.8
2021	37.7	4.2	41.9	24.4	7.8			32.2		20.9
2022	37.7	4.2	41.9	24.4	7.8			32.2		20.1
2023	37.7	4.2	41.9	24.4	7.8			32.2		19.3
2024	37.7	4.2	41.9	24.4	7.8			32.2		18.5
2025	37.7	4.2	41.9	24.4	7.8			32.2		17.7
2026	37.7	4.2	41.9	24.4	7.8			32.2		16.9
2027	41.3	0.6	41.9	37.1	22.3			59.3		30.5
2028	37.2		37.2	37.1	22.3			59.3		29.3
2029	1		44.4	61.6				106.0	106.0	50.3
2030	2		44.4	61.6				106.0	106.0	48.4
2031	3		44.4	61.6				106.0	106.0	46.5
2032	4		44.4	61.6				106.0	106.0	44.7
2033	5		44.4	61.6				106.0	106.0	43.0
2034	6		44.4	61.6				106.0	106.0	41.3
2035	7		44.4	61.6				106.0	106.0	39.8
2036	8		44.4	61.6				106.0	106.0	38.2
2037	9		44.4	61.6				106.0	106.0	36.8
2038	10		44.4	61.6				106.0	106.0	35.3
2039	11		44.4	61.6				106.0	106.0	34.0
2040	12		44.4	61.6				106.0	106.0	32.7
2041	13		44.4	61.6				106.0	106.0	31.4
2042	14		44.4	61.6				106.0	106.0	30.2
2043	15		44.4	61.6				106.0	106.0	29.0
2044	16		44.4	61.6				106.0	106.0	27.9
2045	17		44.4	61.6				106.0	106.0	26.9
2046	18		44.4	61.6				106.0	106.0	25.8
2047	19		44.4	61.6				106.0	106.0	24.8
2048	20		44.4	61.6				106.0	106.0	23.9
2049	21		44.4	61.6				106.0	106.0	23.0
2050	22		44.4	61.6				106.0	106.0	22.1
2051	23		44.4	61.6				106.0	106.0	21.2
2052	24		44.4	61.6				106.0	106.0	20.4
2053	25		44.4	61.6				106.0	106.0	19.6
2054	26		44.4	61.6				106.0	106.0	18.9
2055	27		44.4	61.6				106.0	106.0	18.1
2056	28		44.4	61.6				106.0	106.0	17.4
2057	29		44.4	61.6				106.0	106.0	16.8
2058	30		44.4	61.6				106.0	106.0	16.1
2059	31		44.4	61.6				106.0	106.0	15.5
2060	32		44.4	61.6				106.0	106.0	14.9
2061	33		44.4	61.6				106.0	106.0	14.3
2062	34		44.4	61.6				106.0	106.0	13.8
2063	35		44.4	61.6				106.0	106.0	13.3
2064	36		44.4	61.6				106.0	106.0	12.7
2065	37		44.4	61.6				106.0	106.0	12.3
2066	38		44.4	61.6				106.0	106.0	11.8
2067	39		44.4	61.6				106.0	106.0	11.3
2068	40		44.4	61.6				106.0	106.0	10.9
2069	41		44.4	61.6				106.0	106.0	10.5
2070	42		44.4	61.6				106.0	106.0	10.1
2071	43		44.4	61.6				106.0	106.0	9.7
2072	44		44.4	61.6				106.0	106.0	9.3
2073	45		44.4	61.6				106.0	106.0	9.0
2074	46		44.4	61.6				106.0	106.0	8.6
2075	47		44.4	61.6				106.0	106.0	8.3
2076	48		44.4	61.6				106.0	106.0	8.0
2077	49		44.4	61.6				106.0	106.0	7.7
2078	50		44.4	61.6				106.0	106.0	7.4
合計	678.4	67.3	745.7	2588.5	3259.7		74.6	5922.8	5177.0	5.2

(億円)										
年度	割引後							残存価値	総便益 (B)	純便益 (B-C)
	施設供用期間	社会的割引率	初期投資・更新投資 (便益)	初期投資・更新投資 (コスト)	運営・維持コスト	総費用 (C)	浸水軽減便益			
1988			2.37							
1989			2.28							
1990			2.19							
1991			2.11							
1992			2.03							
1993			1.95							
1994			1.87							
1995			1.80							
1996			1.73							
1997			1.67							
1998			1.60							
1999			1.54							
2000			1.48							
2001			1.42							
2002			1.37							
2003			1.32							
2004			1.27							
2005			1.22							
2006			1.17							
2007			1.12							
2008			1.08							
2009			1.04							
2010			1.00							
2011			0.96	34.6	3.8		38.5			-38.5
2012			0.92	33.3	3.7		37.0			-37.0
2013			0.89	33.5	3.7		37.3			-37.3
2014			0.85	32.2	3.6		35.8			-35.8
2015			0.82	31.0	3.4		34.4			-34.4
2016			0.79	29.8	3.3		33.1			-33.1
2017			0.76	28.7	3.2		31.8	18.6	5.9	24.5
2018			0.73	27.6	3.1		30.6	17.8	5.7	23.5
2019			0.70	26.5	2.9		29.4	17.2	5.5	22.6
2020			0.68	25.5	2.8		28.3	16.5	5.3	21.8
2021			0.65	24.5	2.7		27.2	15.9	5.1	20.9
2022			0.62	23.6	2.6		26.2	15.2	4.9	20.1
2023			0.60	22.7	2.5		25.2	14.4	4.7	19.3
2024			0.58	21.8	2.4		24.2	13.6	4.5	18.5
2025			0.56	20.9	2.3		23.3	12.8	4.2	17.7
2026			0.53	20.1	2.2		22.4	12.0	4.0	16.9
2027			0.51	21.2	0.3		21.5	19.0	11.4	30.5
2028			0.49	18.4			18.4	18.3	11.0	29.3
2029			1	0.47			21.1	29.2		50.3
2030			2	0.46			20.3	28.1		48.4
2031			3	0.44			19.5	27.0		46.5
2032			4	0.42			18.7	26.0		44.7
2033			5	0.41			18.0	25.0		43.0
2034			6	0.39			17.3	24.0		41.3
2035			7	0.38			16.7	23.1		39.8
2036			8	0.36			16.0	22.2		38.2
2037			9	0.35			15.4	21.4		36.8
2038			10	0.33			14.8	20.5		35.3
2039			11	0.32			14.2	19.7		34.0
2040			12	0.31			13.7	19.0		32.7
2041			13	0.30			13.2	18.3		31.4
2042			14	0.29			12.7	17.6		30.2
2043			15	0.27			12.2	16.9		29.0
2044			16	0.26			11.7	16.2		27.9
2045			17	0.25			11.3	15.6		26.9
2046			18	0.24			10.8	15.0		25.8
2047			19	0.23			10.4	14.4		24.8
2048			20	0.23			10.0	13.9		23.9
2049			21	0.22			9.6	13.3		23.0
2050			22	0.21			9.2	12.8		22.1
2051			23	0.20			8.9	12.3		21.2
2052			24	0.19			8.5	11.9		20.4
2053			25	0						

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前)

(※事業:費用-10%)

費用便益分析シート(割引後)

EIRR= 10.3% NPV= 852 億円  
B/C= 2.80

(億円)											(億円)											
年度	施設供用期間	初期投資・更新投資 (万円)		運営・維持コスト	総費用 (C)	浸水軽減便益	海難回避便益	残存価値	総便益 (B)	純便益 (B-C)	年度	施設供用期間	社会的割引率	初期投資・更新投資 (万円)		運営・維持コスト	総費用 (C)	浸水軽減便益	海難回避便益	残存価値	総便益 (B)	純便益 (B-C)
		初期投資	更新投資											初期投資	更新投資							
1988											1988											
1989											1989											
1990											1990											
1991											1991											
1992											1992											
1993											1993											
1994											1994											
1995											1995											
1996											1996											
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2000											2000											
2001											2001											
2002											2002											
2003											2003											
2004											2004											
2005											2005											
2006											2006											
2007											2007											
2008											2008											
2009											2009											
2010											2010											
2011		32.4	3.6		36.0				-36.0		2011		0.96	31.2	3.5		34.6					-34.6
2012		32.4	3.6		36.0				-36.0		2012		0.92	30.0	3.3		33.3					-33.3
2013		33.9	3.8		37.7				-37.7		2013		0.89	30.2	3.4		33.5					-33.5
2014		33.9	3.8		37.7				-37.7		2014		0.85	29.0	3.2		32.2					-32.2
2015		33.9	3.8		37.7				-37.7		2015		0.82	27.9	3.1		31.0					-31.0
2016		33.9	3.8		37.7				-37.7		2016		0.79	26.8	3.0		29.8					-29.8
2017		33.9	3.8		37.7	22.2	7.1		29.3	-8.4	2017		0.76	25.8	2.9		28.7	16.9	5.4		22.3	-6.4
2018		33.9	3.8		37.7	22.2	7.1		29.3	-8.4	2018		0.73	24.8	2.8		27.6	16.2	5.2		21.4	-6.2
2019		33.9	3.8		37.7	22.2	7.1		29.3	-8.4	2019		0.70	23.8	2.6		26.5	15.6	5.0		20.6	-5.9
2020		33.9	3.8		37.7	22.2	7.1		29.3	-8.4	2020		0.68	22.9	2.5		25.5	15.0	4.8		19.8	-5.7
2021		33.9	3.8		37.7	22.2	7.1		29.3	-8.4	2021		0.65	22.0	2.4		24.5	14.4	4.6		19.0	-5.5
2022		33.9	3.8		37.7	22.2	7.1		29.3	-8.4	2022		0.62	21.2	2.4		23.6	13.9	4.4		18.3	-5.3
2023		33.9	3.8		37.7	20.2			53.9	16.2	2023		0.60	20.4	2.3		22.7	20.2	12.2		32.4	9.7
2024		33.9	3.8		37.7	20.2			53.9	16.2	2024		0.58	19.6	2.2		21.8	19.5	11.7		31.1	9.4
2025		33.9	3.8		37.7	20.2			53.9	16.2	2025		0.56	18.8	2.1		20.9	18.7	11.2		29.9	9.0
2026		33.9	3.8		37.7	20.2			53.9	16.2	2026		0.53	18.1	2.0		20.1	18.0	10.8		28.8	8.7
2027		37.1	0.6		37.7	20.2			53.9	16.2	2027		0.51	19.1	0.3		19.4	17.3	10.4		27.7	8.3
2028		33.5			33.5	20.2			53.9	20.5	2028		0.49	16.5			16.5	16.6	10.0		26.6	10.1
2029	1				40.4	56.0			96.3	96.3	2029	1	0.47				19.2	26.6			45.7	45.7
2030	2				40.4	56.0			96.3	96.3	2030	2	0.46				18.4	25.6			44.0	44.0
2031	3				40.4	56.0			96.3	96.3	2031	3	0.44				17.7	24.6			42.3	42.3
2032	4				40.4	56.0			96.3	96.3	2032	4	0.42				17.0	23.6			40.7	40.7
2033	5				40.4	56.0			96.3	96.3	2033	5	0.41				16.4	22.7			39.1	39.1
2034	6				40.4	56.0			96.3	96.3	2034	6	0.39				15.7	21.8			37.6	37.6
2035	7				40.4	56.0			96.3	96.3	2035	7	0.38				15.1	21.0			36.1	36.1
2036	8				40.4	56.0			96.3	96.3	2036	8	0.36				14.6	20.2			34.8	34.8
2037	9				40.4	56.0			96.3	96.3	2037	9	0.35				14.0	19.4			33.4	33.4
2038	10				40.4	56.0			96.3	96.3	2038	10	0.33				13.5	18.7			32.1	32.1
2039	11				40.4	56.0			96.3	96.3	2039	11	0.32				12.9	18.0			30.9	30.9
2040	12				40.4	56.0			96.3	96.3	2040	12	0.31				12.4	17.3			29.7	29.7
2041	13				40.4	56.0			96.3	96.3	2041	13	0.30				12.0	16.6			28.6	28.6
2042	14				40.4	56.0			96.3	96.3	2042	14	0.29				11.5	16.0			27.5	27.5
2043	15				40.4	56.0			96.3	96.3	2043	15	0.27				11.1	15.3			26.4	26.4
2044	16				40.4	56.0			96.3	96.3	2044	16	0.26				10.6	14.8			25.4	25.4
2045	17				40.4	56.0			96.3	96.3	2045	17	0.25				10.2	14.2			24.4	24.4
2046	18				40.4	56.0			96.3	96.3	2046	18	0.24				9.8	13.6			23.5	23.5
2047	19				40.4	56.0			96.3	96.3	2047	19	0.23				9.5	13.1			22.6	22.6
2048	20				40.4	56.0			96.3	96.3	2048	20	0.23				9.1	12.6			21.7	21.7
2049	21				40.4	56.0			96.3	96.3	2049	21	0.22				8.7	12.1			20.9	20.9
2050	22				40.4	56.0			96.3	96.3	2050	22	0.21				8.4	11.7			20.1	20.1
2051	23				40.4	56.0			96.3	96.3	2051	23	0.20				8.1	11.2			19.3	19.3
2052	24				40.4	56.0			96.3	96.3	2052	24	0.19				7.8	10.8			18.6	18.6
2053	25				40.4	56.0			96.3	96.3	2053	25	0.19				7.5	10.4			17.8	17.8
2054	26				40.4	56.0			96.3	96.3	2054	26	0.18				7.2	10.0			17.2	17.2
2055	27				40.4	56.0			96.3	96.3	2055	27	0.17				6.9	9.6			16.5	16.5
2056	28				40.4	56.0			96.3	96.3	2056	28	0.16				6.6	9.2			15.9	15.9
2057	29				40.4	56.0			96.3	96.3	2057	29	0.16				6.4	8.9			15.2	15.2
2058	30				40.4	56.0			96.3	96.3	2058	30	0.15				6.1	8.5			14.7	14.7
2059	31				40.4	56.0			96.3	96.3	2059	31	0.15				5.9	8.2			14.1	14.1
2060	32				40.4	56.0			96.3	96.3	2060	32	0.14				5.7	7.9			13.6	13.6
2061	33				40.4	56.0			96.3	96.3	2061	33	0.14				5.5	7.6			13.0	13.0
2062	34				40.4	56.0			96.3	96.3	2062	34	0.13				5.3	7.3			12.5	12.5
2063	35				40.4	56.0			96.3	96.3	2063	35	0.13				5.0	7.0			12.1	12.1
2064	36				40.4	56.0			96.3	96.3	2064	36	0.12				4.9	6.7			11.6	11.6
2065	37				40.4	56.0			96.3	96.3	2065	37	0.12				4.7	6.5			11.1	11.1
2066	38				40.4	56.0			96.3	96.3	2066	38	0.11				4.5	6.2			10.7	10.7
2067	39				40.4	56.0			96.3	96.3	2067	39	0.11				4.3	6.0			10.3	10.3
2068	40				40.4	56.0			96.3	96.3	2068	40	0.10				4.1	5.8			9.9	9.9
2069	41				40.4	56.0</																

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前) (的事业:費用+10%)

費用便益分析シート(割引後)

EIRR=	8.8%	NPV=	748 億円
B/C=	2.30		

(億円)										(億円)												
割引前										割引後												
年度	施設供 用期間	初期投資・ 更新投資 (A)	初期投資・ 更新投資 (B)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B-C)	純便益 (B-C)	年度	施設供 用期間	社会的 割引率	初期投資・ 更新投資 (A)	初期投資・ 更新投資 (B)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B-C)	純便益 (B-C)
1988											1988		2.37									
1989											1989		2.28									
1990											1990		2.19									
1991											1991		2.11									
1992											1992		2.03									
1993											1993		1.95									
1994											1994		1.87									
1995											1995		1.80									
1996											1996		1.73									
1997											1997		1.67									
1998											1998		1.60									
1999											1999		1.54									
2000											2000		1.48									
2001											2001		1.42									
2002											2002		1.37									
2003											2003		1.32									
2004											2004		1.27									
2005											2005		1.22									
2006											2006		1.17									
2007											2007		1.12									
2008											2008		1.08									
2009											2009		1.04									
2010											2010		1.00									
2011		39.6	4.4		44.0				-44.0		2011	0.96	38.1	4.2		42.3						-42.3
2012		39.6	4.4		44.0				-44.0		2012	0.92	36.6	4.1		40.7						-40.7
2013		41.5	4.6		46.1				-46.1		2013	0.89	36.9	4.1		41.0						-41.0
2014		41.5	4.6		46.1				-46.1		2014	0.85	35.5	3.9		39.4						-39.4
2015		41.5	4.6		46.1				-46.1		2015	0.82	34.1	3.8		37.9						-37.9
2016		41.5	4.6		46.1				-46.1		2016	0.79	32.8	3.6		36.4						-36.4
2017		41.5	4.6		46.1	22.2	7.1		29.3	-16.8	2017	0.76	31.5	3.5		35.0	16.9	5.4			22.3	-12.8
2018		41.5	4.6		46.1	22.2	7.1		29.3	-16.8	2018	0.73	30.3	3.4		33.7	16.2	5.2			21.4	-12.3
2019		41.5	4.6		46.1	22.2	7.1		29.3	-16.8	2019	0.70	29.1	3.2		32.4	15.6	5.0			20.6	-11.8
2020		41.5	4.6		46.1	22.2	7.1		29.3	-16.8	2020	0.68	28.0	3.1		31.1	15.0	4.8			19.8	-11.4
2021		41.5	4.6		46.1	22.2	7.1		29.3	-16.8	2021	0.65	26.9	3.0		29.9	14.4	4.6			19.0	-10.9
2022		41.5	4.6		46.1	22.2	7.1		29.3	-16.8	2022	0.62	25.9	2.9		28.8	13.9	4.4			18.3	-10.5
2023		41.5	4.6		46.1	33.7	20.2		53.9	7.8	2023	0.60	24.9	2.8		27.7	20.2	12.2			32.4	4.7
2024		41.5	4.6		46.1	33.7	20.2		53.9	7.8	2024	0.58	24.0	2.7		26.6	19.5	11.7			31.1	4.5
2025		41.5	4.6		46.1	33.7	20.2		53.9	7.8	2025	0.56	23.0	2.6		25.6	18.7	11.2			29.9	4.4
2026		41.5	4.6		46.1	33.7	20.2		53.9	7.8	2026	0.53	22.1	2.5		24.6	18.0	10.8			28.8	4.2
2027		45.4	0.7		46.1	33.7	20.2		53.9	7.8	2027	0.51	23.3	0.4		23.7	17.3	10.4			27.7	4.0
2028		40.9			40.9	33.7	20.2		53.9	13.0	2028	0.49	20.2			20.2	16.6	10.0			26.6	6.4
2029	1				40.4	56.0			96.3	96.3	2029	1	0.47				19.2	26.6			45.7	45.7
2030	2				40.4	56.0			96.3	96.3	2030	2	0.46				18.4	25.6			44.0	44.0
2031	3				40.4	56.0			96.3	96.3	2031	3	0.44				17.7	24.6			42.3	42.3
2032	4				40.4	56.0			96.3	96.3	2032	4	0.42				17.0	23.6			40.7	40.7
2033	5				40.4	56.0			96.3	96.3	2033	5	0.41				16.4	22.7			39.1	39.1
2034	6				40.4	56.0			96.3	96.3	2034	6	0.39				15.7	21.8			37.6	37.6
2035	7				40.4	56.0			96.3	96.3	2035	7	0.38				15.1	21.0			36.1	36.1
2036	8				40.4	56.0			96.3	96.3	2036	8	0.36				14.6	20.2			34.8	34.8
2037	9				40.4	56.0			96.3	96.3	2037	9	0.35				14.0	19.4			33.4	33.4
2038	10				40.4	56.0			96.3	96.3	2038	10	0.33				13.5	18.7			32.1	32.1
2039	11				40.4	56.0			96.3	96.3	2039	11	0.32				12.9	18.0			30.9	30.9
2040	12				40.4	56.0			96.3	96.3	2040	12	0.31				12.4	17.3			29.7	29.7
2041	13				40.4	56.0			96.3	96.3	2041	13	0.30				12.0	16.6			28.6	28.6
2042	14				40.4	56.0			96.3	96.3	2042	14	0.29				11.5	16.0			27.5	27.5
2043	15				40.4	56.0			96.3	96.3	2043	15	0.27				11.1	15.3			26.4	26.4
2044	16				40.4	56.0			96.3	96.3	2044	16	0.26				10.6	14.8			25.4	25.4
2045	17				40.4	56.0			96.3	96.3	2045	17	0.25				10.2	14.2			24.4	24.4
2046	18				40.4	56.0			96.3	96.3	2046	18	0.24				9.8	13.6			23.5	23.5
2047	19				40.4	56.0			96.3	96.3	2047	19	0.23				9.5	13.1			22.6	22.6
2048	20				40.4	56.0			96.3	96.3	2048	20	0.23				9.1	12.6			21.7	21.7
2049	21				40.4	56.0			96.3	96.3	2049	21	0.22				8.7	12.1			20.9	20.9
2050	22				40.4	56.0			96.3	96.3	2050	22	0.21				8.4	11.7			20.1	20.1
2051	23				40.4	56.0			96.3	96.3	2051	23	0.20				8.1	11.2			19.3	19.3
2052	24				40.4	56.0			96.3	96.3	2052	24	0.19				7.8	10.8			18.6	18.6
2053	25				40.4	56.0			96.3	96.3	2053	25	0.19				7.5	10.4			17.8	17.8
2054	26				40.4	56.0			96.3	96.3	2054	26	0.18				7.2	10.0			17.2	17.2
2055	27				40.4	56.0			96.3	96.3	2055	27	0.17				6.9	9.6			16.5	16.5
2056	28				40.4	56.0			96.3	96.3	2056	28	0.16				6.6	9.2			15.9	15.9
2057	29				40.4	56.0			96.3	96.3	2057	29	0.16				6.4	8.9			15.2	15.2
2058	30				40.4	56.0			96.3	96.3	2058	30	0.15				6.1	8.5			14.7	14.7
2059	31				40.4	56.0			96.3	96.3	2059	31	0.15				5.9	8.2			14.1	14.1
2060	32				40.4	56.0			96.3	96.3	2060	32	0.14				5.7	7.9			13.6	13.6
2061	33				40.4	56.0			96.3	96.3	2061	33	0.14				5.5	7.6			13.0	13.0
2062	34				40.4	56.0			96.3	96.3	2062	34	0.13				5.3	7.3			12.5	12.5
2063	35				40.4	56.0			96.3	96.3	2063	35	0.13				5.0	7.0			12.1	12.1
2064	36				40.4	56.0			96.3	96.3	2064	36	0.12				4.9	6.7			11.6	11.6
2065	37				40.4	56.0			96.3	96.3	2065	37	0.12				4.7	6.5			11.1	11.1
2066	38				40.4	56.0			96.3	96.3	2066	38	0.11				4.5	6.2			10.7	10.7
2067	39				40.4	56.0			96.3	96.3	2067	39	0.11				4.3	6.0			10.3	10.3
2068	40	</																				

久慈港湾口地区防波堤整備事業及び久慈港海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前)

(換算年:建設期間-10%)

費用便益分析シート(割引後)

EIRR=	9.5%	NPV=	827 億円
B/C=	2.53		

(億円)										(億円)													
割引前										割引後													
年度	施設提供期間	初期投資・更新投資(改善)	初期投資・更新投資(維持)	運営・維持コスト	総費用(C)	浸水軽減便益	海難回避便益	残存価値	総便益(B)	純便益(B-C)	年度	施設提供期間	社会的割引率	初期投資・更新投資(改善)	初期投資・更新投資(維持)	運営・維持コスト	総費用(C)	浸水軽減便益	海難回避便益	残存価値	総便益(B)	純便益(B-C)	
1988											1988		2.37										
1989											1989		2.28										
1990											1990		2.19										
1991											1991		2.11										
1992											1992		2.03										
1993											1993		1.95										
1994											1994		1.87										
1995											1995		1.80										
1996											1996		1.73										
1997											1997		1.67										
1998											1998		1.60										
1999											1999		1.54										
2000											2000		1.48										
2001											2001		1.42										
2002											2002		1.37										
2003											2003		1.32										
2004											2004		1.27										
2005											2005		1.22										
2006											2006		1.17										
2007											2007		1.12										
2008											2008		1.08										
2009											2009		1.04										
2010											2010		1.00										
2011	40.7	4.0		44.7					-44.7		2011		0.96	39.1	3.9		43.0						-43.0
2012	40.7	4.0		44.7					-44.7		2012		0.92	37.6	3.7		41.4						-41.4
2013	42.6	4.2		46.9					-46.9		2013		0.89	37.9	3.8		41.7						-41.7
2014	42.6	4.2		46.9					-46.9		2014		0.85	36.5	3.6		40.1						-40.1
2015	42.6	4.2		46.9					-46.9		2015		0.82	35.1	3.5		38.5						-38.5
2016	42.6	4.2		46.9					-46.9		2016		0.79	33.7	3.3		37.0						-37.0
2017	42.6	4.2		46.9	22.2	7.1		29.3	-17.6		2017		0.76	32.4	3.2	35.6	16.9	5.4			22.3	-13.4	
2018	42.6	4.2		46.9	22.2	7.1		29.3	-17.6		2018		0.73	31.2	3.1	34.3	16.2	5.2			21.4	-12.9	
2019	42.6	4.2		46.9	22.2	7.1		29.3	-17.6		2019		0.70	30.0	3.0	32.9	15.6	5.0			20.6	-12.4	
2020	42.6	4.2		46.9	22.2	7.1		29.3	-17.6		2020		0.68	28.8	2.9	31.7	15.0	4.8			19.8	-11.9	
2021	42.6	4.2		46.9	22.2	7.1		29.3	-17.6		2021		0.65	27.7	2.7	30.4	14.4	4.6			19.0	-11.4	
2022	42.6	4.2		46.9	33.7	20.2		53.9	7.1		2022		0.62	26.6	2.6	29.3	21.0	12.6			33.7	4.4	
2023	42.6	4.2		46.9	33.7	20.2		53.9	7.1		2023		0.60	25.6	2.5	28.2	20.2	12.2			32.4	4.2	
2024	42.6	4.2		46.9	33.7	20.2		53.9	7.1		2024		0.58	24.6	2.4	27.1	19.5	11.7			31.1	4.1	
2025	42.6	4.2		46.9	33.7	20.2		53.9	7.1		2025		0.56	23.7	2.3	26.0	18.7	11.2			29.9	3.9	
2026	42.6	4.2		46.9	33.7	20.2		53.9	7.1		2026		0.53	22.8	2.3	25.0	18.0	10.8			28.8	3.8	
2027	1			40.4	56.0			96.3	96.3		2027	1	0.51			20.7	28.7				49.5	49.5	
2028	2			40.4	56.0			96.3	96.3		2028	2	0.49			19.9	27.6				47.6	47.6	
2029	3			40.4	56.0			96.3	96.3		2029	3	0.47			19.2	26.6				45.7	45.7	
2030	4			40.4	56.0			96.3	96.3		2030	4	0.46			18.4	25.6				44.0	44.0	
2031	5			40.4	56.0			96.3	96.3		2031	5	0.44			17.7	24.6				42.3	42.3	
2032	6			40.4	56.0			96.3	96.3		2032	6	0.42			17.0	23.6				40.7	40.7	
2033	7			40.4	56.0			96.3	96.3		2033	7	0.41			16.4	22.7				39.1	39.1	
2034	8			40.4	56.0			96.3	96.3		2034	8	0.39			15.7	21.8				37.6	37.6	
2035	9			40.4	56.0			96.3	96.3		2035	9	0.38			15.1	21.0				36.1	36.1	
2036	10			40.4	56.0			96.3	96.3		2036	10	0.36			14.6	20.2				34.8	34.8	
2037	11			40.4	56.0			96.3	96.3		2037	11	0.35			14.0	19.4				33.4	33.4	
2038	12			40.4	56.0			96.3	96.3		2038	12	0.33			13.5	18.7				32.1	32.1	
2039	13			40.4	56.0			96.3	96.3		2039	13	0.32			12.9	18.0				30.9	30.9	
2040	14			40.4	56.0			96.3	96.3		2040	14	0.31			12.4	17.3				29.7	29.7	
2041	15			40.4	56.0			96.3	96.3		2041	15	0.30			12.0	16.6				28.6	28.6	
2042	16			40.4	56.0			96.3	96.3		2042	16	0.29			11.5	16.0				27.5	27.5	
2043	17			40.4	56.0			96.3	96.3		2043	17	0.27			11.1	15.3				26.4	26.4	
2044	18			40.4	56.0			96.3	96.3		2044	18	0.26			10.6	14.8				25.4	25.4	
2045	19			40.4	56.0			96.3	96.3		2045	19	0.25			10.2	14.2				24.4	24.4	
2046	20			40.4	56.0			96.3	96.3		2046	20	0.24			9.8	13.6				23.5	23.5	
2047	21			40.4	56.0			96.3	96.3		2047	21	0.23			9.5	13.1				22.6	22.6	
2048	22			40.4	56.0			96.3	96.3		2048	22	0.23			9.1	12.6				21.7	21.7	
2049	23			40.4	56.0			96.3	96.3		2049	23	0.22			8.7	12.1				20.9	20.9	
2050	24			40.4	56.0			96.3	96.3		2050	24	0.21			8.4	11.7				20.1	20.1	
2051	25			40.4	56.0			96.3	96.3		2051	25	0.20			8.1	11.2				19.3	19.3	
2052	26			40.4	56.0			96.3	96.3		2052	26	0.19			7.8	10.8				18.6	18.6	
2053	27			40.4	56.0			96.3	96.3		2053	27	0.19			7.5	10.4				17.8	17.8	
2054	28			40.4	56.0			96.3	96.3		2054	28	0.18			7.2	10.0				17.2	17.2	
2055	29			40.4	56.0			96.3	96.3		2055	29	0.17			6.9	9.6				16.5	16.5	
2056	30			40.4	56.0			96.3	96.3		2056	30	0.16			6.6	9.2				15.9	15.9	
2057	31			40.4	56.0			96.3	96.3		2057	31	0.16			6.4	8.9				15.2	15.2	
2058	32			40.4	56.0			96.3	96.3		2058	32	0.15			6.1	8.5				14.7	14.7	
2059	33			40.4	56.0			96.3	96.3		2059	33	0.15			5.9	8.2				14.1	14.1	
2060	34			40.4	56.0			96.3	96.3		2060	34	0.14			5.7	7.9				13.6	13.6	
2061	35			40.4	56.0			96.3	96.3		2061	35	0.14			5.5	7.6				13.0	13.0	
2062	36			40.4	56.0			96.3	96.3		2062	36	0.13			5.3	7.3				12.5	12.5	
2063	37			40.4	56.0			96.3	96.3		2063	37	0.13			5.0	7.0				12.1	12.1	
2064	38			40.4	56.0			96.3	96.3		2064	38	0.12			4.9	6.7				11.6	11.6	
2065	39			40.4	56.0			96.3	96.3		2065	39	0.12			4.7	6.5				11.1	11.1	
2066	40			40.4	56.0			96.3	96.3		2066	40	0.11			4.5	6.2				10.7	10.7	
2067	41			40.4	56.0			96.3	96.3		2067	41	0.11			4.3							

久慈港湾口地区防波堤整備事業及び久慈海岸直轄海岸保全施設整備事業  
費用便益分析シート(割引前)

(換算率:建設期間+10%)

費用便益分析シート(割引後)

EIRR=	9.0%	NPV=	738 億円
B/C=	2.45		

(億円)											(億円)												
割引前											割引後												
年度	施設供 用期間	初期投資・ 更新投資 (改修)	初期投資・ 更新投資 (海岸)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B)	純便益 (B-C)	年度	施設供 用期間	社会的 割引率	初期投資・ 更新投資 (改修)	初期投資・ 更新投資 (海岸)	運営・維持 コスト	総費用 (C)	浸水軽減 便益	海難回避 便益	残存価値	総便益 (B)	純便益 (B-C)	
1988											1988			2.37									
1989											1989			2.28									
1990											1990			2.19									
1991											1991			2.11									
1992											1992			2.03									
1993											1993			1.95									
1994											1994			1.87									
1995											1995			1.80									
1996											1996			1.73									
1997											1997			1.67									
1998											1998			1.60									
1999											1999			1.54									
2000											2000			1.48									
2001											2001			1.42									
2002											2002			1.37									
2003											2003			1.32									
2004											2004			1.27									
2005											2005			1.22									
2006											2006			1.17									
2007											2007			1.12									
2008											2008			1.08									
2009											2009			1.04									
2010											2010			1.00									
2011		32.4	3.9		36.3				-36.3		2011		0.96	31.2	3.7		34.9						-34.9
2012		32.4	3.9		36.3				-36.3		2012		0.92	30.0	3.6		33.6						-33.6
2013		34.0	4.1		38.1				-38.1		2013		0.89	30.2	3.6		33.8						-33.8
2014		34.0	4.1		38.1				-38.1		2014		0.85	29.1	3.5		32.5						-32.5
2015		34.0	4.1		38.1				-38.1		2015		0.82	27.9	3.3		31.3						-31.3
2016		34.0	4.1		38.1				-38.1		2016		0.79	26.9	3.2		30.1						-30.1
2017		34.0	4.1		38.1				-38.1		2017		0.76	25.8	3.1		28.9						-28.9
2018		34.0	4.1		38.1	22.2	7.1		29.3	-8.8	2018		0.73	24.8	3.0		27.8	16.2	5.2		21.4	-6.4	
2019		34.0	4.1		38.1	22.2	7.1		29.3	-8.8	2019		0.70	23.9	2.9		26.7	15.6	5.0		20.6	-6.2	
2020		34.0	4.1		38.1	22.2	7.1		29.3	-8.8	2020		0.68	23.0	2.8		25.7	15.0	4.8		19.8	-5.9	
2021		34.0	4.1		38.1	22.2	7.1		29.3	-8.8	2021		0.65	22.1	2.6		24.7	14.4	4.6		19.0	-5.7	
2022		34.0	4.1		38.1	22.2	7.1		29.3	-8.8	2022		0.62	21.2	2.5		23.8	13.9	4.4		18.3	-5.5	
2023		34.0	4.1		38.1	22.2	7.1		29.3	-8.8	2023		0.60	20.4	2.4		22.9	13.3	4.3		17.6	-5.3	
2024		34.0	4.1		38.1	22.2	7.1		29.3	-8.8	2024		0.58	19.6	2.4		22.0	12.8	4.1		16.9	-5.1	
2025		34.0	4.1		38.1	33.7	20.2		53.9	15.9	2025		0.56	18.9	2.3		21.1	18.7	11.2		29.9	8.8	
2026		34.0	4.1		38.1	33.7	20.2		53.9	15.9	2026		0.53	18.1	2.2		20.3	18.0	10.8		28.8	8.5	
2027		37.2	0.6		37.8	33.7	20.2		53.9	16.1	2027		0.51	19.1	0.3		19.4	17.3	10.4		27.7	8.3	
2028		33.5	0.6		34.1	33.7	20.2		53.9	19.8	2028		0.49	18.5	0.3		18.9	16.6	10.0		26.6	9.8	
2029		33.5	0.6		34.1	33.7	20.2		53.9	19.8	2029		0.47	15.9	0.30		16.2	16.0	9.6		25.6	9.4	
2030		33.5	0.6		34.1	33.7	20.2		53.9	19.8	2030		0.46	15.3	0.29		15.6	15.4	9.2		24.6	9.0	
2031	1				40.4	56.0			96.3	96.3	2031	1	0.44					17.7	24.6		42.3	42.3	
2032	2				40.4	56.0			96.3	96.3	2032	2	0.42					17.0	23.6		40.7	40.7	
2033	3				40.4	56.0			96.3	96.3	2033	3	0.41					16.4	22.7		39.1	39.1	
2034	4				40.4	56.0			96.3	96.3	2034	4	0.39					15.7	21.8		37.6	37.6	
2035	5				40.4	56.0			96.3	96.3	2035	5	0.38					15.1	21.0		36.1	36.1	
2036	6				40.4	56.0			96.3	96.3	2036	6	0.36					14.6	20.2		34.8	34.8	
2037	7				40.4	56.0			96.3	96.3	2037	7	0.35					14.0	19.4		33.4	33.4	
2038	8				40.4	56.0			96.3	96.3	2038	8	0.33					13.5	18.7		32.1	32.1	
2039	9				40.4	56.0			96.3	96.3	2039	9	0.32					12.9	18.0		30.9	30.9	
2040	10				40.4	56.0			96.3	96.3	2040	10	0.31					12.4	17.3		29.7	29.7	
2041	11				40.4	56.0			96.3	96.3	2041	11	0.30					12.0	16.6		28.6	28.6	
2042	12				40.4	56.0			96.3	96.3	2042	12	0.29					11.5	16.0		27.5	27.5	
2043	13				40.4	56.0			96.3	96.3	2043	13	0.27					11.1	15.3		26.4	26.4	
2044	14				40.4	56.0			96.3	96.3	2044	14	0.26					10.6	14.8		25.4	25.4	
2045	15				40.4	56.0			96.3	96.3	2045	15	0.25					10.2	14.2		24.4	24.4	
2046	16				40.4	56.0			96.3	96.3	2046	16	0.24					9.8	13.6		23.5	23.5	
2047	17				40.4	56.0			96.3	96.3	2047	17	0.23					9.5	13.1		22.6	22.6	
2048	18				40.4	56.0			96.3	96.3	2048	18	0.23					9.1	12.6		21.7	21.7	
2049	19				40.4	56.0			96.3	96.3	2049	19	0.22					8.7	12.1		20.9	20.9	
2050	20				40.4	56.0			96.3	96.3	2050	20	0.21					8.4	11.7		20.1	20.1	
2051	21				40.4	56.0			96.3	96.3	2051	21	0.20					8.1	11.2		19.3	19.3	
2052	22				40.4	56.0			96.3	96.3	2052	22	0.19					7.8	10.8		18.6	18.6	
2053	23				40.4	56.0			96.3	96.3	2053	23	0.19					7.5	10.4		17.8	17.8	
2054	24				40.4	56.0			96.3	96.3	2054	24	0.18					7.2	10.0		17.2	17.2	
2055	25				40.4	56.0			96.3	96.3	2055	25	0.17					6.9	9.6		16.5	16.5	
2056	26				40.4	56.0			96.3	96.3	2056	26	0.16					6.6	9.2		15.9	15.9	
2057	27				40.4	56.0			96.3	96.3	2057	27	0.16					6.4	8.9		15.2	15.2	
2058	28				40.4	56.0			96.3	96.3	2058	28	0.15					6.1	8.5		14.7	14.7	
2059	29				40.4	56.0			96.3	96.3	2059	29	0.15					5.9	8.2		14.1	14.1	
2060	30				40.4	56.0			96.3	96.3	2060	30	0.14					5.7	7.9		13.6	13.6	
2061	31				40.4	56.0			96.3	96.3	2061	31	0.14					5.5	7.6		13.0	13.0	
2062	32				40.4	56.0			96.3	96.3	2062	32	0.13					5.3	7.3		12.5	12.5	
2063	33				40.4	56.0			96.3	96.3	2063	33	0.13					5.0	7.0		12.1	12.1	
2064	34				40.4	56.0			96.3	96.3	2064	34	0.12					4.9	6.7		11.6	11.6	
2065	35				40.4	56.0			96.3	96.3	2065	35	0.12					4.7	6.5		11.1	11.1	
2066	36				40.4	56.0			96.3	96.3	2066	36	0.11					4.5	6.2		10.7	10.7	
2067																							