

TABLE X-46.—ANALYSIS OF COSTS AND BENEFITS OF THE PREFERRED OPTION FOR THE NORTH ATLANTIC REGION (MILLIONS 2002\$)

	Before discounting		Discounted using 3% discount rate		Discounted using 7% discount rate	
	Low	High	Low	High	Low	High
Annual Use Benefits						
Commercial ^{a,b}	\$0.08	\$0.08	\$0.07	\$0.07	\$0.06	\$0.06
Recreational ^{a,b}	0.88	0.88	0.76	0.76	0.65	0.65
Aggregate Use Benefits	0.96	0.96	0.83	0.83	0.71	0.71
Annual Nonuse Benefits ^c						
Restoration-Based Nonuse Benefits ^d	14.17	26.87	14.17	26.87	14.17	26.87
Total Annual Benefits						
Total Benefits (aggregate use + restoration-based non-use values)	15.13	27.83	15.00	27.70	14.88	27.58
Total Restoration-based Benefits ^d	14.84	28.57	14.84	28.57	14.84	28.57
Annualized Costs						
Total Costs	18.15	18.15	18.15	18.15	18.15	18.15
Net Annual Benefits (Benefits—Costs)						
Net Benefits	(3.02)	9.68	(3.15)	9.55	(3.27)	9.43
Restoration-based Net Benefits	(3.31)	10.42	(3.31)	10.42	(3.31)	10.42

Note: Sum of components may not equal totals due to rounding.

^a Welfare losses represent losses due to both impingement and entrainment because recreational estimates cannot be presented separately for these categories. Commercial/recreational use values are annual values derived in Section X C.

^b Commercial and recreational losses are presented undiscounted, and discounted at 3% and 7%. There are no low or high estimates for welfare losses.

^c Nonuse values are not discounted. Values are based on nonuse values for SAV and wetland restoration for the populations in counties abutting affected water bodies. Low values assume lower bound restoration acreage and high values assume upper bound restoration acreage amounts (see Section X E d of this preamble).

^d Total monetary value based on total values associated with restoration is not discounted (see Section E.2 for detail).

2. Benefit-Cost Analysis of the Preferred Option for the Northern California Region

a. Total Monetary Value of Baseline Impingement and Entrainment Losses in the Northern California Region

Table X-47 presents EPA's estimates of the monetary value of baseline

impingement and entrainment losses at cooling water intake structures in the Northern California region. As noted above, EPA did not estimate nonuse values of impingement and entrainment losses for the Northern California region analysis; data aren't available to support use of the restoration-based approach

for the North California region. The estimated use value of fishery resources lost to impingement and entrainment in the Northern California region ranges from \$1.1 million to \$1.49 million per year (2002\$).

TABLE X-47.—ANNUAL VALUES OF THE BASELINE FISHERY LOSSES FROM IMPINGEMENT AND ENTRAINMENT IN THE NORTHERN CALIFORNIA REGION (MILLIONS 2002\$)

	Before discounted	Discounted using 3% discount rate	Discount using 7% discount rate
Use Value of the Resources Lost			
Commercial Use ^{a,b}	\$0.06	\$0.05	\$0.05
Recreational Use ^{a,b}	1.43	1.22	1.05
Total Use Benefits	1.49	1.27	1.10

Note: Sum of components may not equal totals due to rounding.

^a Welfare losses represent losses due to both impingement and entrainment because recreational estimates cannot be presented separately for these categories.

^b Commercial and recreational losses are presented undiscounted, and discounted at 3% and 7%. There are no low or high estimates for welfare losses.