INTERACTIVE CALCULATOR WORKSHEETS

WATER SAVINGS

The Interactive Calculator will work for one year of the program. If you want to analyze multiple years of your program, each must be analyzed separately.

Items that are shaded require input.

Necessary information:

- Participant average annual water use 2 years before through 2 years after the measure was implemented.
- Control group average annual water use 2 years before through 2 years after.
- Lifespan (from list or choose your own).
- Number of participants being analyzed.

Number of Participants

Length of lifespan in years (from list page 65)

Participant average annual water use:

2 years before

1 year before

year of the program

1 year after

2 years after

Control group average annual water use:

2 years before

1 year before

year of the program

1 year after

2 years after

Participant Average Pre-measure

Participant Average Post-measure

Control Average Pre-measure

Control Average Post-measure

Water savings 1 year after (%)

Water savings 2 years after (%)

Water savings per participant 1 year after (gallons)

Water savings per participant 2 years after (gallons)

Water savings 1 year after (gallons)

Water savings 2 years after (gallons)

Average water savings per year (gallons)

Total water Savings over lifespan (gallons)

ECONOMIC ANALYSIS

The Interactive Calculator will work for one year of the program, if you want to analyze multiple years of your program, each must be analyzed separately.

Items that are shaded require input.
Necessary information:

- Discount rate (from list page 65) .
- Rate of inflation (from list page 65).
- Cost for the year (exact cost for the number of participants included).
- Average water rates over time (per 1,000 gallons).

Costs:	Benefits:
Costs to the utility	Benefits to the utility
Costs to participating customers	Benefits to participating customers (other than water bill)
Costs to any other organizations (ex., funders)	Benefits to any other organizations
Discount rate - % (from list page 65)	Current year CPI (from list page 65)
Average water rates (per 1,000 gallons)	Base year CPI (year of the program)
Cost to the utility over lifespan	Benefit to the utility over lifespan
Cost to participating customers over lifespan	Benefit to participating customers over lifespan
Cost to any other organizations over lifespan	Benefit to any other organizations over lifespan
Total costs	Total benefits
Net present value (NPV), utility perspective	Cost per AF saved, utility perspective
Net present value (NPV), per AF saved, participant	participant perspective Cost perspective
Net present value (NPV), overall perspective	Cost per AF saved, overall perspective

OMB CIRCULAR A-94

5-January-2005

BUDGET ASSUMPTIONS Nominal Treasury Interest Rates

for Different Maturities (from the annual budget assumptions for the first year of the budget forecast)

Calendar Year	3-Year	5-Year	7-Year	10-Year	30-Year
1990	7.4	7.5	7.6	7.7	7.8
1991	7.2	7.4	7.4	7.5	7.7
1992	6.1	6.5	6.7	7.0	7.1
1993	5.6	6.0	6.3	6.7	6.8
1994	5.0	5.3	5.5	5.7	5.8
1995	7.3	7.6	7.7	7.9	8.1
1996	5.4	5.5	5.5	5.6	5.7
1997	5.8	5.9	6.0	6.1	6.3
1998	5.6	5.7	5.8	5.9	6.1
1999	4.7	4.8	4.9	4.9	5.0
2000	5.9	6.0	6.0	6.1	6.3
2001	5.4	5.4	5.4	5.4	5.3
2002	4.1	4.5	4.8	5.1	5.8
2003	3.1	3.6	3.9	4.2	5.1
2004	3.0	3.7	4.2	4.6	5.5
2005	3.7	4.1	4.4	4.6	5.2

CONSUMER PRICE INDICES

1990	130.7
1991	136.2
1992	140.3
1993	144.5
1994	148.2
1995	152.4
1996	156.9
1997	160.5
1998	163.0
1999	166.6
2000	172.2
2001	177.1
2002	179.9
2003	184.0
2004	188.9

ECOBA LIFESPANS USED - IN YEARS

Audits	5
Device Giveaways	5
Washing Machine Rebates	12
Landscape Conversions	10
Toilet Programs	20
Rates	20
Ordinances	10
Surcharges	5
Classes	5