Economic Evaluation Complete Report  
EconGuide Test 1

# Analysis Base Information

* Number of Alternatives: 2
* Planning Horizon: 60 years
* Discount Rate: 3%
* Disaster Rate: Every 35 years
* Disaster Magnitude: 15% of build cost
* Risk Preference: averse
* Statistical Value of a Life: $7500000

# Summary

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plan Title | Total Benefits ($) | Total Costs ($) | Net ($) | Net with externalities ($) | SIR (%) | IRR (%) | ROI (%) | Non-Disaster ROI (%) |
| Base | 0 | 0 | 0 | 0 | 0.00 | --- | 0.00 | 0.00 |
| Alt 1 | 3,950,051 | 2,741,950 | 1,208,102 | 1,004,464 | 0.45 | 5.14 | 2.40 | 1.00 |
| Alt 2 | 4,430,713 | 3,308,703 | 1,122,010 | 1,147,023 | 0.35 | 4.59 | 2.23 | 0.78 |

# Base

### Alternative 0

## Fatalities Averted

Number of Statistical Lives Saved: 0.00

Value of Statistical Lives Saved: $0

Description: Soma , comma desc

## Disaster-Related Benefits

|  |  |  |
| --- | --- | --- |
| Title | Amount ($) | Effective Present Value ($) |
| Response and Recovery Cost Reductions |  | 0 |
| Direct Losses Prevented |  | 0 |
| Indirect Losses Prevented |  | 0 |
| Total |  | 0 |

## Resilience Dividend

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Start Year | Recurrence (Years) | Amount ($) | Effective Present Value ($) |
| One Time Cost Reductions |  |  |  | 0 |
| Recurring Cost Reductions |  |  |  | 0 |
| Total |  |  |  | 0 |

## Costs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Start Year | Recurrence (Years) | Amount ($) | Effective Present Value ($) |
| Direct Costs |  |  |  | 0 |
| Indirect Costs |  |  |  | 0 |
| OMR Costs: One-Time |  |  |  | 0 |
| OMR Costs: Recurring |  |  |  | 0 |
| Total |  |  |  | 0 |

## Externalities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Start Year | Recurrence (Years) | Amount ($) | Effective Present Value ($) |
| One Time Positive Externalities |  |  |  | 0 |
| Recurring Positive Externalities |  |  |  | 0 |
| One Time Negative Externalities |  |  |  | 0 |
| Recurring Negative Externalities |  |  |  | 0 |
| Total |  |  |  | 0 |

# Alt 1

### Alternative 1

## Fatalities Averted

Number of Statistical Lives Saved: 0.34

Value of Statistical Lives Saved: $1,210,406

## Disaster-Related Benefits

|  |  |  |
| --- | --- | --- |
| Title | Amount ($) | Effective Present Value ($) |
| Response and Recovery Cost Reductions |  | 201,734 |
| Alt 1 R&R Reduction | 250,000 | 201,734 |
| Direct Losses Prevented |  | 524,509 |
| Alt 1 Direct Reduction | 650,000 | 524,509 |
| Indirect Losses Prevented |  | 363,122 |
| Alt 1 Indirect Reduction | 450,000 | 363,122 |
| Total |  | 1,089,365 |

## Resilience Dividend

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Start Year | Recurrence (Years) | Amount ($) | Effective Present Value ($) |
| One Time Cost Reductions |  |  |  | 279,875 |
| Alt 1 NDRB One Time | 3 | N/A | 300,000 | 274,179 |
| Last Comma Test | 15 | N/A | 8,932 | 5,695 |
| Recurring Cost Reductions |  |  |  | 1,370,405 |
| Alt 1 NDRB Recurring | 1 | 1 | 50,000 | 1,370,405 |
| Total |  |  |  | 1,650,280 |

Last Comma Test: The last, comma test

## Costs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Start Year | Recurrence (Years) | Amount ($) | Effective Present Value ($) |
| Direct Costs |  |  |  | 2,250,000 |
| Alt 1 Direct | Start-Up | N/A | 2,250,000 | 2,250,000 |
| Indirect Costs |  |  |  | 425,000 |
| Alt 1 Indirect | Start-Up | N/A | 425,000 | 425,000 |
| OMR Costs: One-Time |  |  |  | 41,161 |
| Alt 1 OMR One-Time | 20 | N/A | 75,000 | 41,161 |
| OMR Costs: Recurring |  |  |  | 25,789 |
| Alt 1 OMR Recurring | 5 | 5 | 5,000 | 25,789 |
| Total |  |  |  | 2,741,950 |

## Externalities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Start Year | Recurrence (Years) | Amount ($) | Effective Present Value ($) |
| One Time Positive Externalities |  |  |  | 43,035 |
| Alt 1 One Time | 5.0 | N/A | 50,000 | 43,035 |
| Recurring Positive Externalities |  |  |  | 0 |
| One Time Negative Externalities |  |  |  | 0 |
| Recurring Negative Externalities |  |  |  | 246,673 |
| Alt 1 Recurring | 1.0 | 1.0 | 9,000 | 246,673 |
| Total |  |  |  | -203,638 |

# Alt 2

### Alternative 2

## Fatalities Averted

Number of Statistical Lives Saved: 0.43

Value of Statistical Lives Saved: $1,513,008

Description: Another, one!, asdf

## Disaster-Related Benefits

|  |  |  |
| --- | --- | --- |
| Title | Amount ($) | Effective Present Value ($) |
| Response and Recovery Cost Reductions |  | 161,387 |
| Alt 2 R&R Reduction | 200,000 | 161,387 |
| Direct Losses Prevented |  | 645,623 |
| Alt 2 Direct Reduction | 800,000 | 645,550 |
| Comma Test | 90 | 73 |
| Indirect Losses Prevented |  | 564,856 |
| Alt 2 Indirect Reduction | 700,000 | 564,856 |
| Total |  | 1,371,866 |

Comma Test: A description, with, commas! Woo-,hoo!

## Resilience Dividend

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Start Year | Recurrence (Years) | Amount ($) | Effective Present Value ($) |
| One Time Cost Reductions |  |  |  | 242,611 |
| Alt 2 NDRB One-Time | 1 | N/A | 250,000 | 242,611 |
| Recurring Cost Reductions |  |  |  | 1,303,227 |
| Alt 2 NDRB Recurring | 5 | 1 | 55,000 | 1,303,227 |
| Total |  |  |  | 1,545,839 |

## Costs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Start Year | Recurrence (Years) | Amount ($) | Effective Present Value ($) |
| Direct Costs |  |  |  | 2,890,389 |
| Alt 2 Direct | Start-Up | N/A | 2,800,000 | 2,800,000 |
| Test with commas | Start-Up | N/A | 90,389 | 90,389 |
| Indirect Costs |  |  |  | 300,000 |
| Alt 2 Indirect | Start-Up | N/A | 300,000 | 300,000 |
| OMR Costs: One-Time |  |  |  | 50,821 |
| Alt 2 OMR One-Time | 30 | N/A | 125,000 | 50,821 |
| OMR Costs: Recurring |  |  |  | 67,493 |
| Alt 2 OMR Recurring | 2 | 2 | 5,000 | 67,493 |
| Total |  |  |  | 3,308,703 |

Test with commas: Some desctsadf, sadfior,,,a df

## Externalities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Start Year | Recurrence (Years) | Amount ($) | Effective Present Value ($) |
| One Time Positive Externalities |  |  |  | 69 |
| New Line Test | 9.0 | N/A | 90 | 69 |
| Recurring Positive Externalities |  |  |  | 75,954 |
| Alt 2 Recurring | 5.0 | 5.0 | 1,000 | 5,158 |
| Comma Test | 8.0 | 90.0 | 90,000 | 70,797 |
| One Time Negative Externalities |  |  |  | 51,010 |
| Alt 2 OneTime | 15.0 | N/A | 80,000 | 51,010 |
| Recurring Negative Externalities |  |  |  | 0 |
| Total |  |  |  | 25,013 |

New Line Test: Some description

Comma Test: My, comma, description test, is it working?