

25 Oct 2012

Project: **Tillamook SFC HWY 101
24OCT2012**

Pg 1 of 5

Total Benefits: **\$141,099**

Total Costs: **\$10,000**

BCR: **14.11**

Project Number:

Disaster #:

Program:

Agency: **NHC**

State: **Oregon**

Point of Contact: Vaughn Collins

Analyst: Rob Flaner

Project Summary:

Project Number:

Disaster #:

Program:

Agency: NHC

Analyst: Rob Flaner

Point of Contact: Vaughn Collins

Phone Number:

Address: Oregon

Email:

Comments:

Structure Summary For:

Highway 101, Oregon, , Tillamook

Structure Type: Other

Historic Building: No

Contact:

Benefits: \$141,099

Costs: \$10,000

BCR: 14.11

Mitigation	Hazard	BCR	Benefits	Costs
Drainage Improvement	Damage-Frequency Assessment	14.11	\$141,099	\$10,000

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Pg 2 of 5

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State: **Oregon**

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Structure and Mitigation Details For: Highway 101, Oregon, , Tillamook

Benefits: \$141,099

Costs: \$10,000

BCR: 14.11

Hazard: **Damage-Frequency Assessment - Flood**

Mitigation Option: Drainage Improvement

Latitude:

Longitude:

Project Useful Life: 50

Mitigation Information

Basis of Damages: Expected Damages

Number of Damage Events: 3

Number of Events with Know Recurrence

Intervals: 3

Roads And Bridges

Estimated Number of One-Way
Traffic Trips Per Day: 17,100

Additional Time per One-Way Trip: 0:30

Number of Additional Miles: 5.0

Federal Rate: 0.550

Economic Loss Per Day of
Loss of Function: \$300,362

Facility Description:

Highway 101 Detour

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Expected Damages Before and After Mitigation

Analysis Year: 2012

Analysis Duration: 63

Utilities (\$/day):

Year Built: 1950

User Input Analysis Duration:

Buildings (\$/day):

Roads/Bridges (\$/day): \$300,361.50

Damages Before Mitigation

Damage Year:

RI: 6.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days): 1.3

Total	\$390,470
Total Inflated	

Damages After Mitigation

RI: 6.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days): 1.1

Total	\$330,398

Damage Year:

RI: 22.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days): 1.3

Total	\$390,470
Total Inflated	

RI: 22.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days): 1.1

Total	\$330,398

Damage Year:

RI: 100.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days): 3.0

Total	\$901,085
Total Inflated	

RI: 100.00

Are Damages In Current Dollars? Yes

Buildings (Days):

Utilities (Days):

Roads (Days): 2.8

Total	\$841,012

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Pg 4 of 5

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Summary Of Benefits

Expected Annual Damages Before Mitigation

Expected Annual Damages After Mitigation

Expected Avoided Damages After Mitigation (Benefits)

Annual: \$77,371
Present Value: \$1,067,778

Annual: \$67,147
Present Value: \$926,679

Annual: \$10,224
Present Value: \$141,099

Mitigation Benefits: \$141,099

Mitigation Costs: \$10,000

Benefits Minus Costs: \$131,099

Benefit-Cost Ratio: 14.11

Cost Estimate

Project Useful Life (years): 50

Construction Type:

Mitigation Project Cost: \$10,000

Detailed Scope of Work: Yes

Annual Project Maintenance Cost: \$0

Detailed Estimate for Entire Project: Yes

Final Mitigation Project Cost: \$10,000

Years of Maintenance: 50

Cost Basis Year:

Present Worth of Annual Maintenance Costs: \$0

Construction Start Year:

Estimate Reflects Current Prices: Yes

Construction End Year:

Project Escalation:

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Pg 5 of 5

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Justification/Attachments

Field	Description	Attachments
Facility Description	Documented in memorandum	