

Economic Benefits of the Chesapeake Bay Clean Water Blueprint



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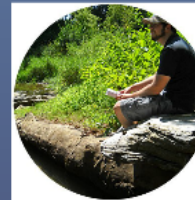
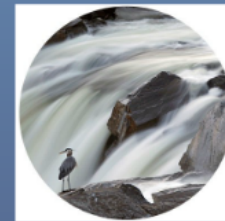


What is cleaning up the Bay Worth?

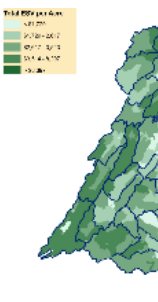


...on the Bay

...along
rivers

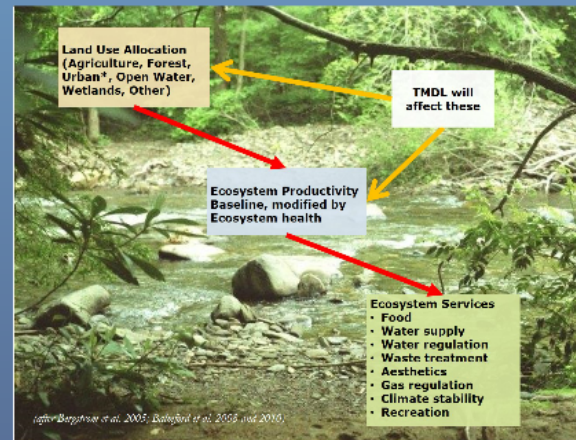


...and upland
throughout
the watershed



Ecosystem Services

The benefits
that nature provides
to people.



**Land Use Allocation
(Agriculture, Forest,
Urban*, Open Water,
Wetlands, Other)**

**TMDL will
affect these**

**Ecosystem Productivity
Baseline, modified by
Ecosystem health**

Ecosystem Services

- Food
- Water supply
- Water regulation
- Waste treatment
- Aesthetics
- Gas regulation
- Climate stability
- Recreation

(after Bergstrom et al. 2005; Balmford et al. 2008 and 2010)

Method

Enhanced Benefits Transfer:

- Assess land use (baseline and projected)
- Assess land health (baseline and projected)
- Apply "comps" to Chesapeake Bay Land and Water

Land Use

From CBP projections

- 7 classes
- >1,100 River Segments



Comps

\$/Acre/Year

- 8 Services
- Specific to Land Use



Land Health

Modified Index of Wildness

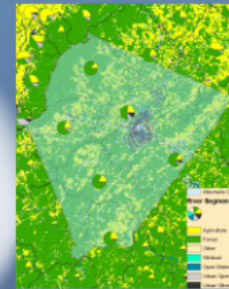


Source: Best
Available
Information
Published
10/2011

Land Use

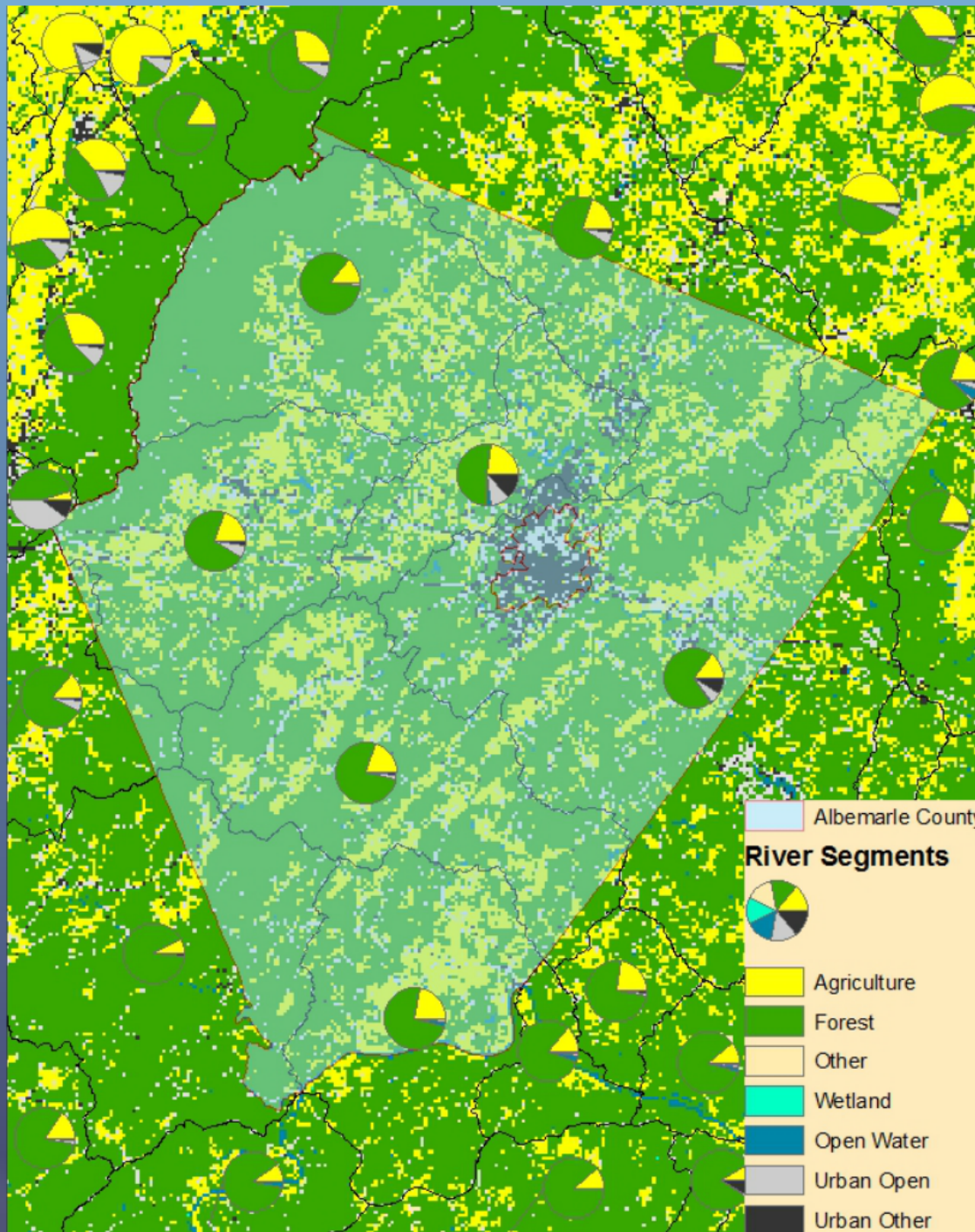
From CBP projections

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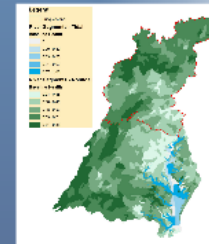
Land Use
Categories

Land Use Categories

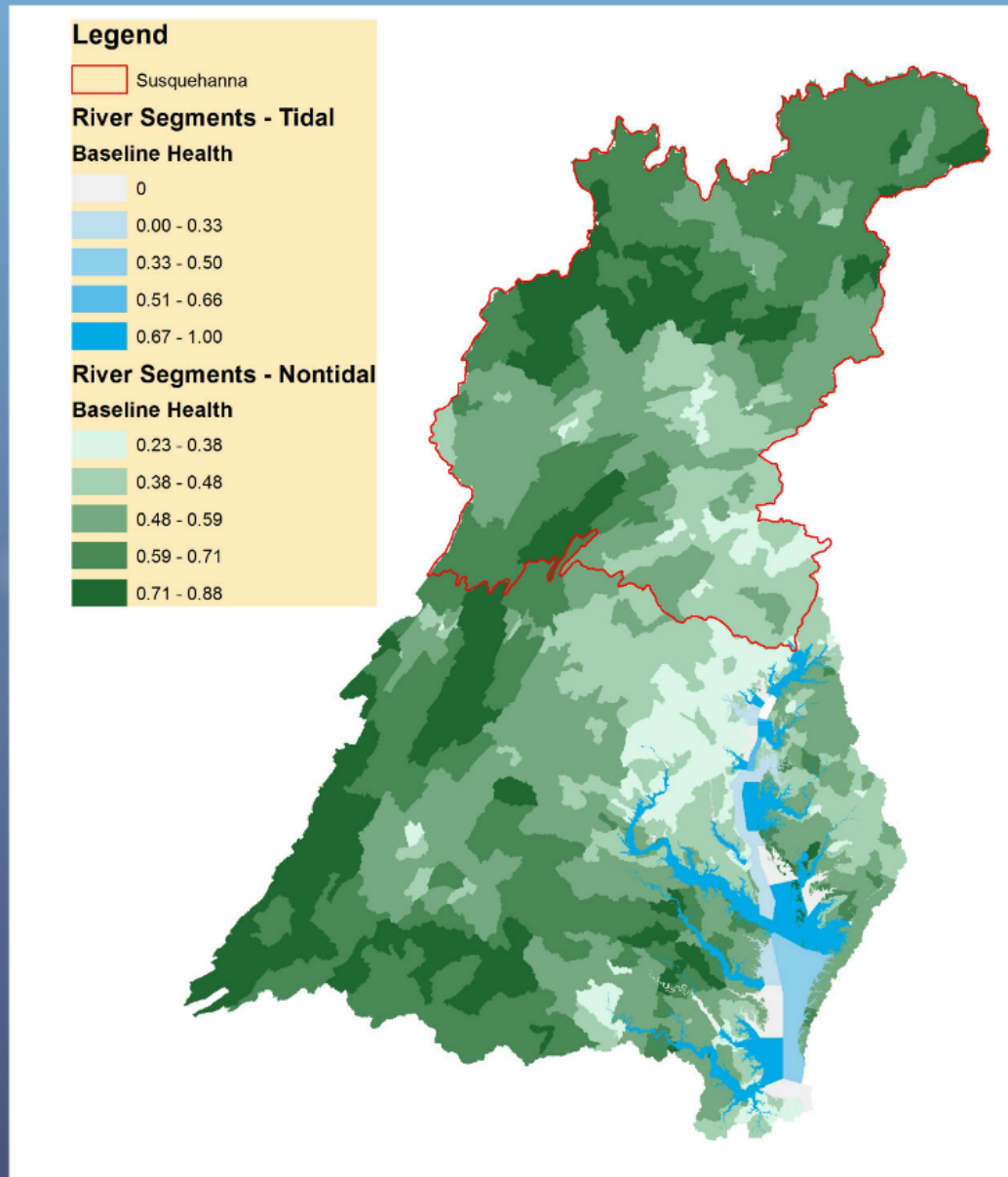


Land Health

Modified Index of Wildness



Distance from
Roads (+)
& Pollution (-)
& Population
Density (-)



Distance from
Roads (+)
& Pollution (-)
& Population
Density (-)

Comps

\$/Acre/Year

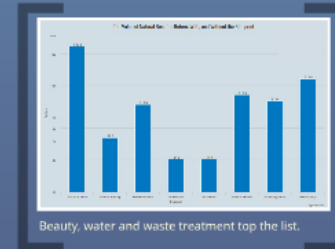
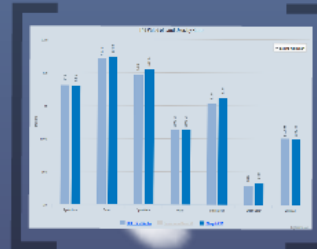
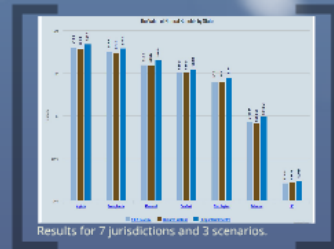
- 8 Services
- Specific to Land Use

**EARTH
ECONOMICS** 
ecosystem valuation toolkit



Results

- \$107.2 billion annual benefits (baseline)
- +\$22.5 billion under the blueprint
- -\$5.6 billion under business as usual
- Gap between Blueprint and BAU will grow



Cleaning up the Chesapeake Bay and its rivers and streams makes environmental and economic sense.

Economists say a saved Bay is worth nearly **\$130 billion**—an increase of


\$22 Billion
per year
for generations.



Our house will be worth more.



Clean waters will attract more recreation.



Our farms and waters will be more productive.



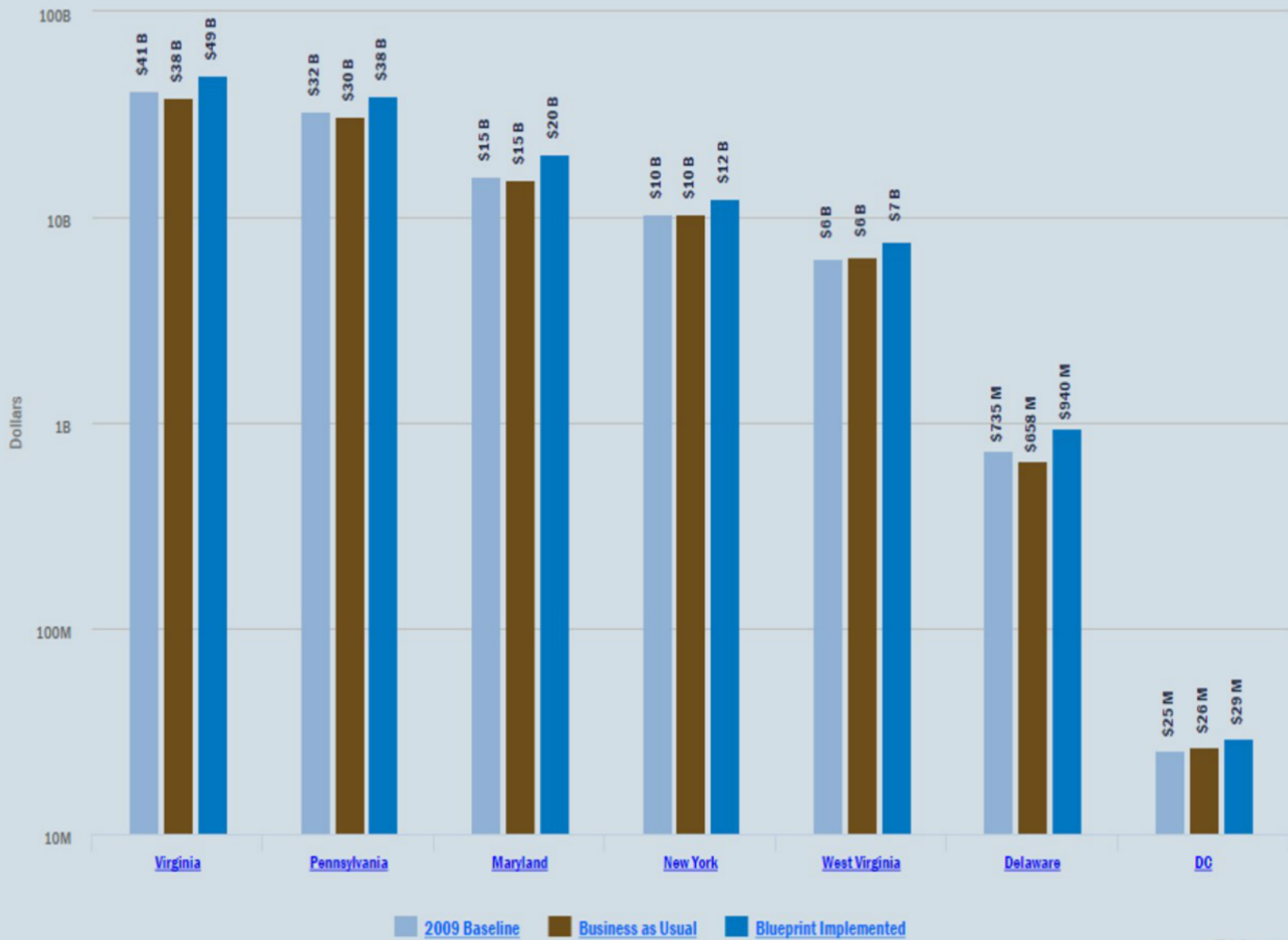
CHESAPEAKE BAY
FOUNDATION

Saving a National Treasure

It just makes cents.

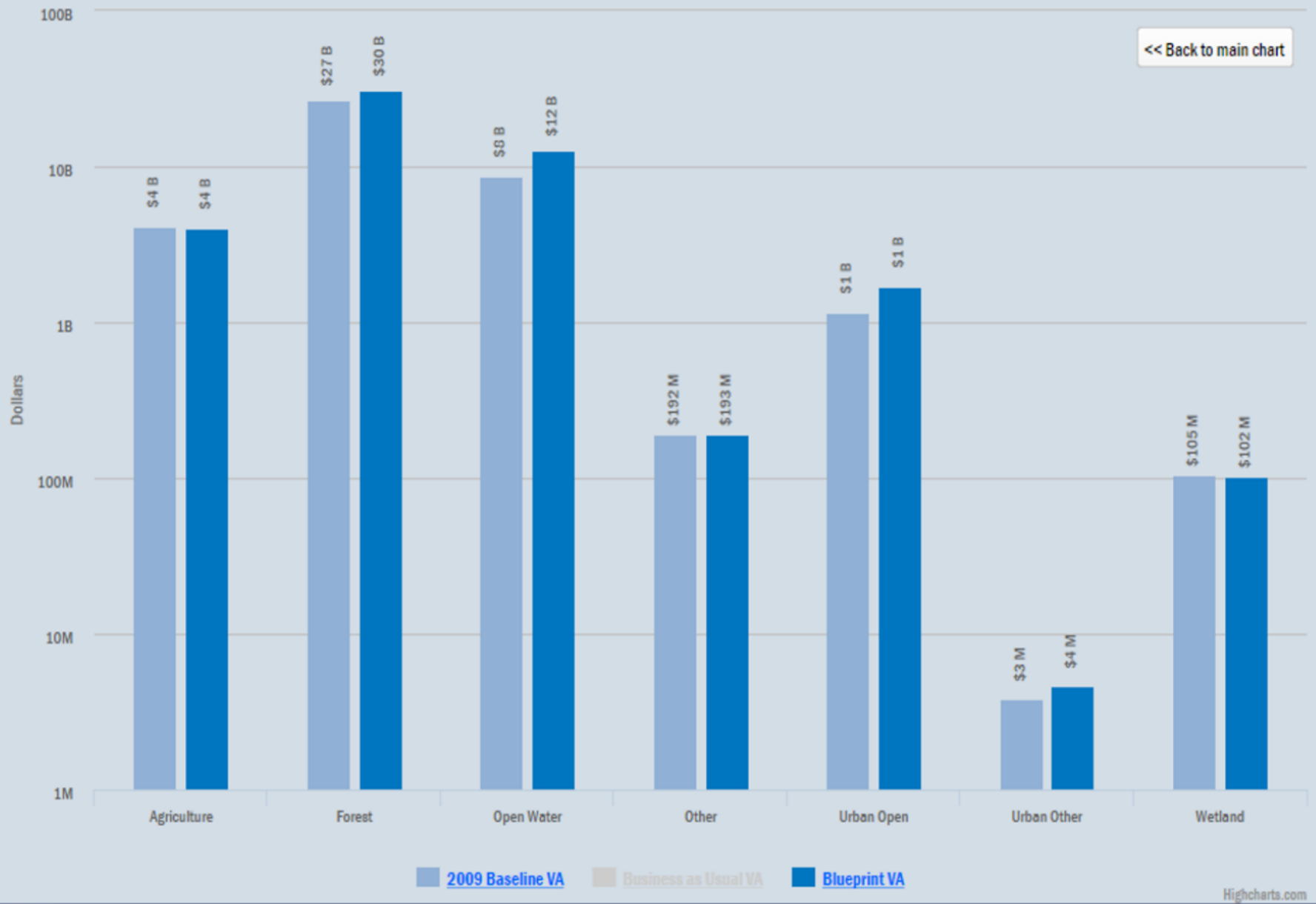
Learn more at cbf.org/economicbenefits.

The Value of Natural Benefits by State

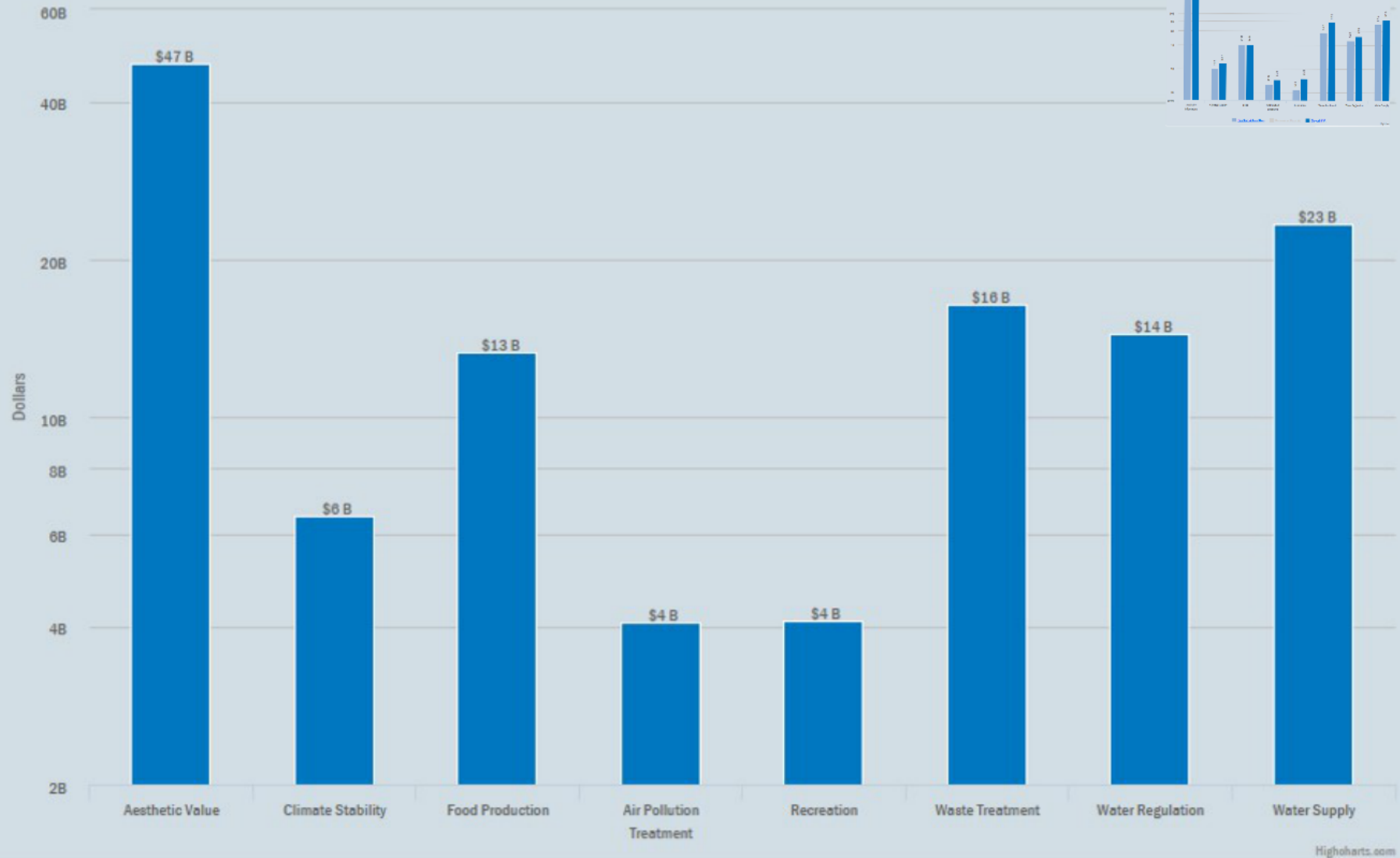


Results for 7 jurisdictions and 3 scenarios.

The Value of Land Uses by State



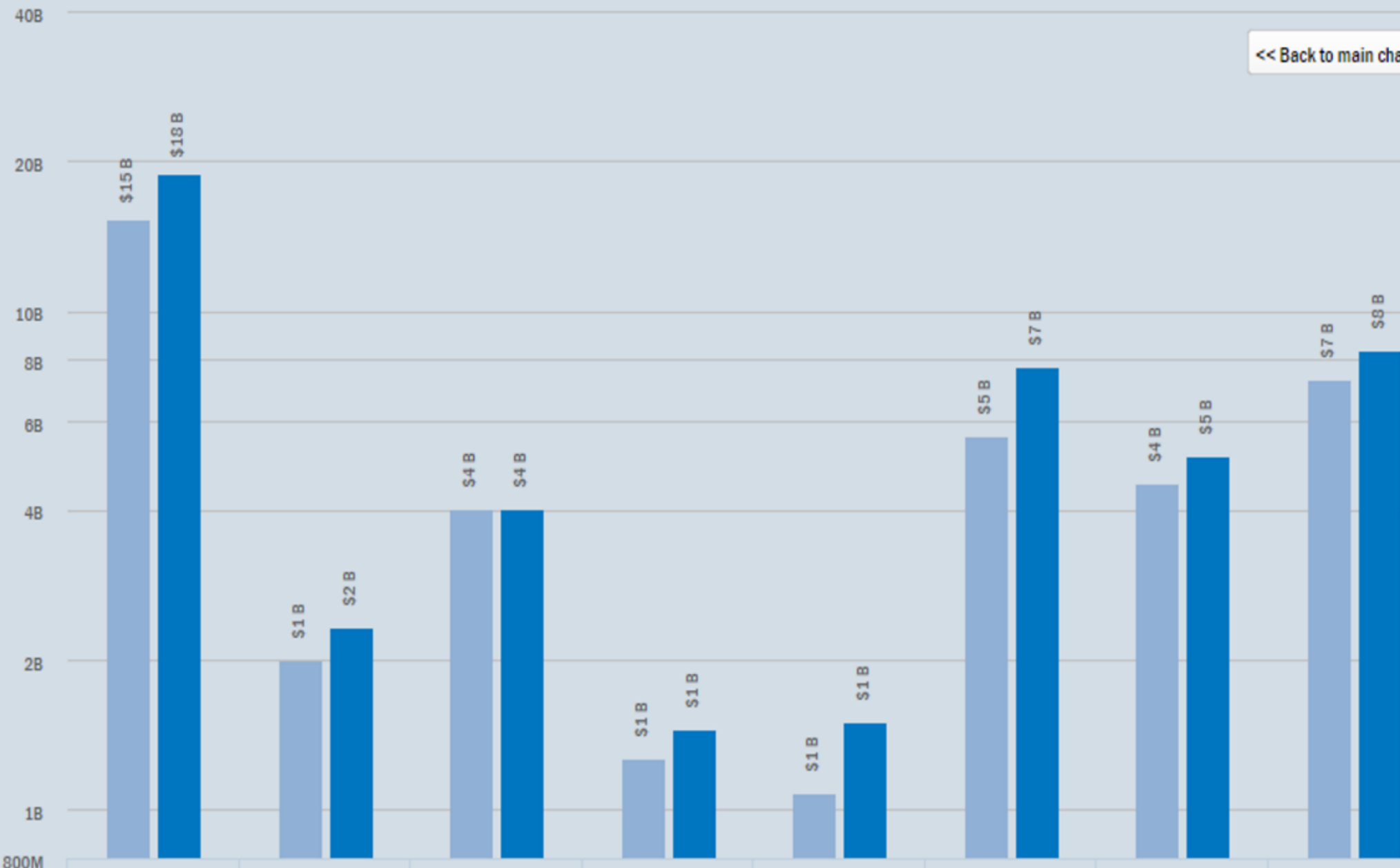
The Value of Natural Benefits Before, With, and Without the Blueprint



Beauty, water and waste treatment top the list.

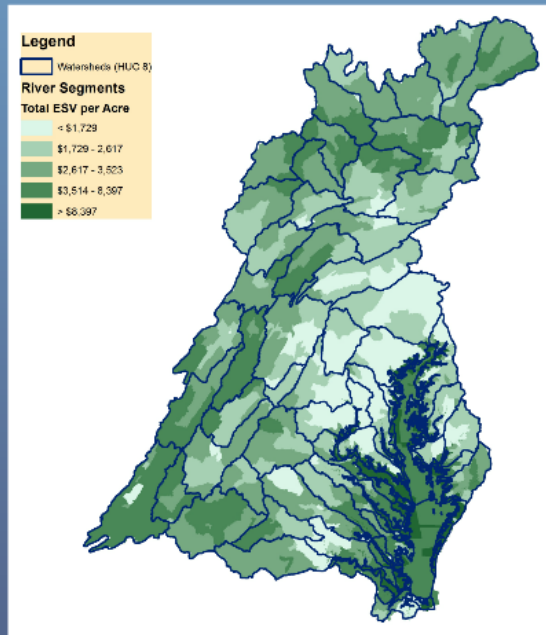
The Value of Natural Benefits by State

[<< Back to main chart](#)



Baseline VA Land Uses Business as Usual VA Blueprint VA

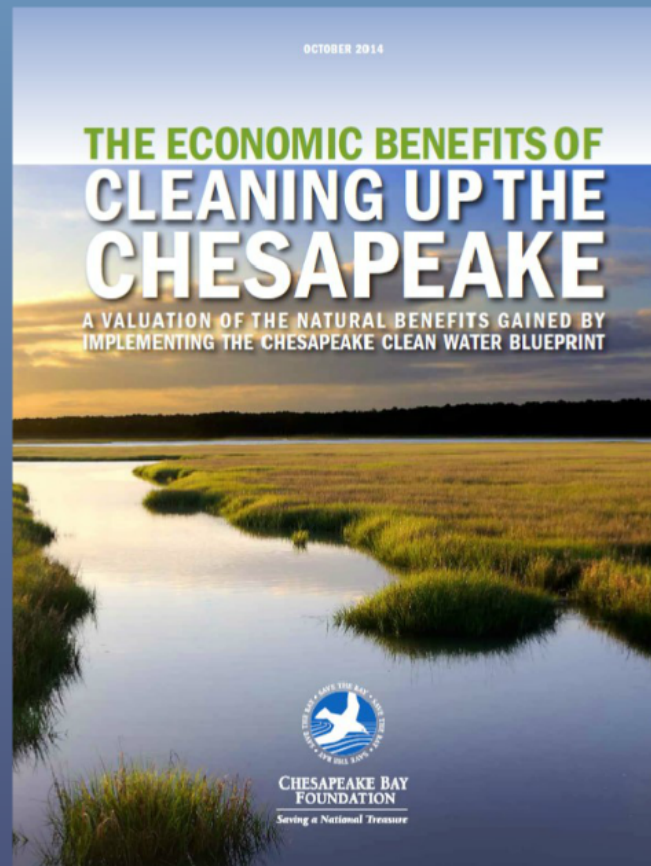
Next steps / Extensions



- Input to B-C analysis
- Prioritize specific restoration efforts
 - bang for the buck
- Identify partnership and funding opportunities
 - PES programs
 - joint marketing
 - cost share

For More:

<http://www.cbf.org/EconomicBenefits>



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