

Economic Benefits of the Chesapeake Bay Clean Water Blueprint



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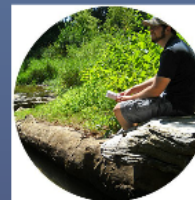


What is cleaning up the Bay Worth?

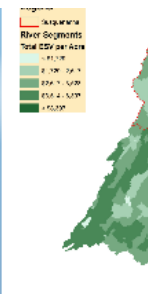


...on the Bay

...along
rivers

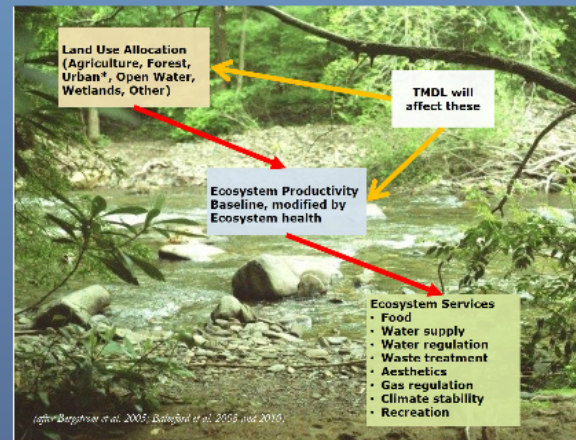


...and upland
throughout
the watershed



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

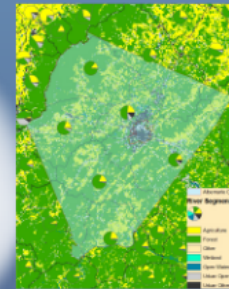
Modified Index of Wildness



Land Use

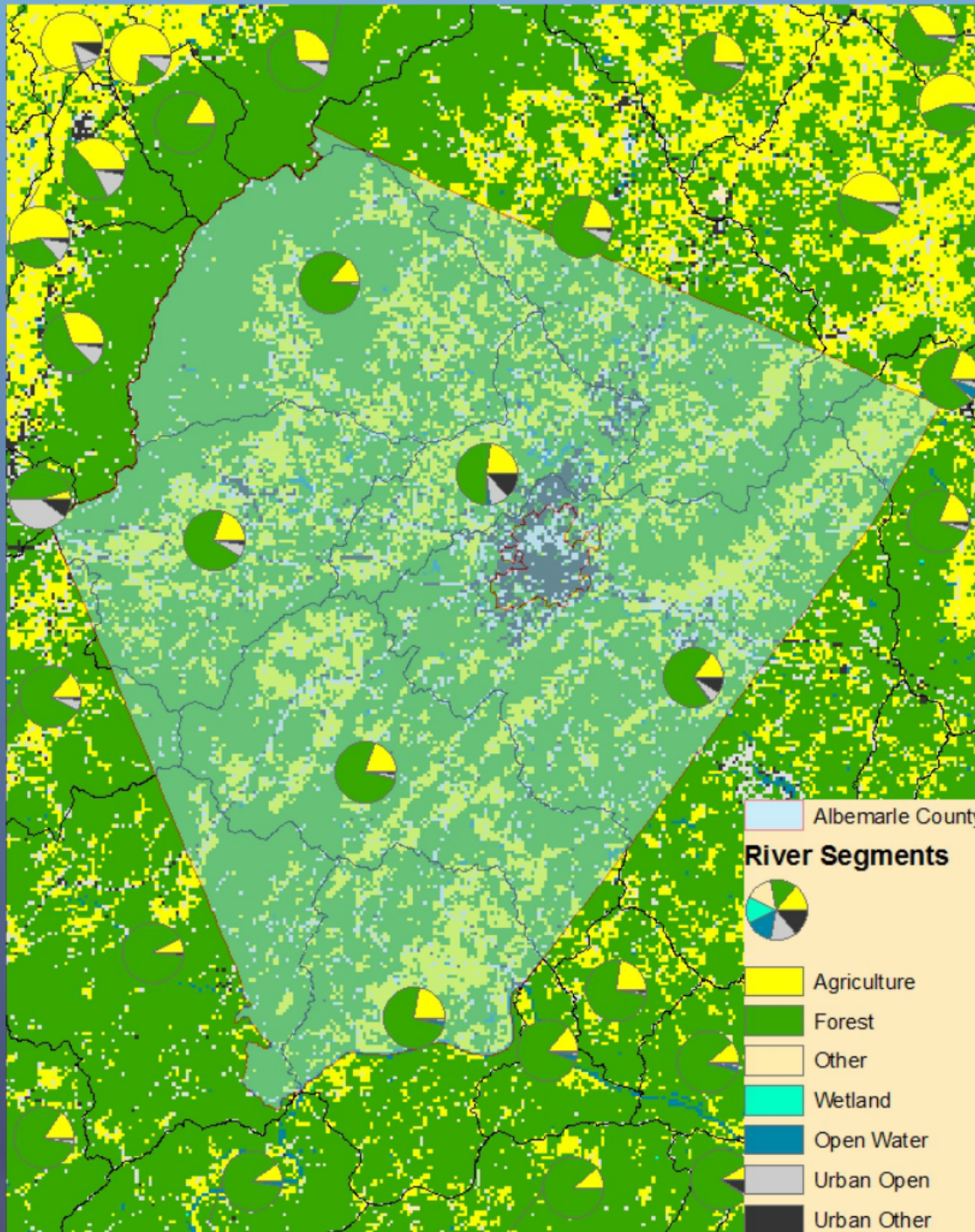
From CBP projections

- 7 classes
- >1,100 River Segments



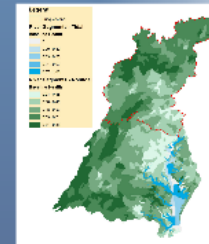
Land Use Categories

Land Use Categories

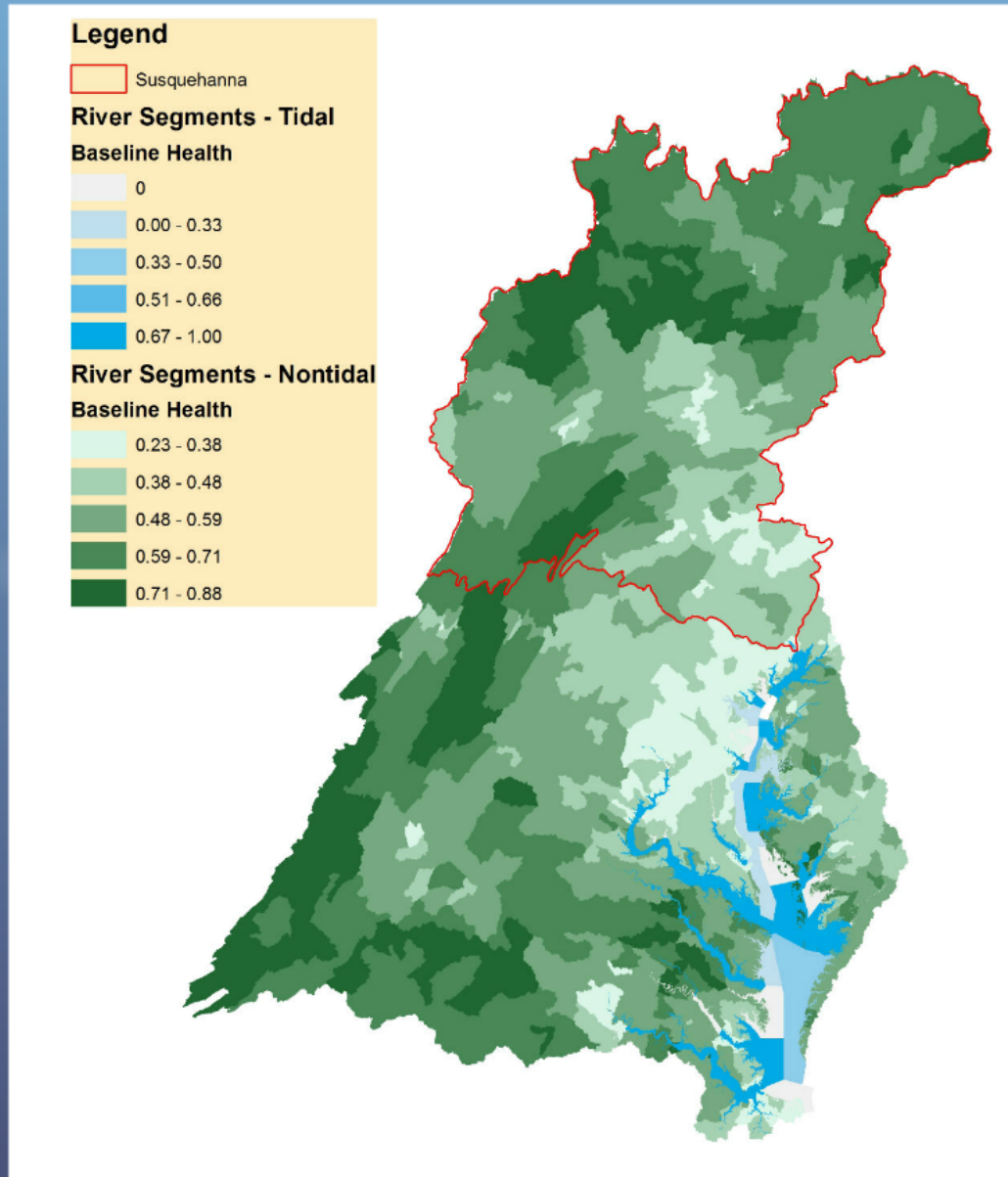


Land Health

Modified Index of Wildness



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



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

Comps

\$/Acre/Year

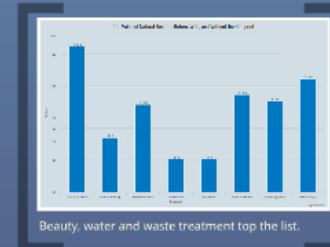
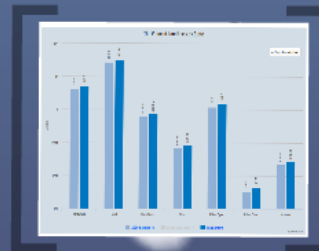
- 8 Services
- Specific to Land Use

**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.



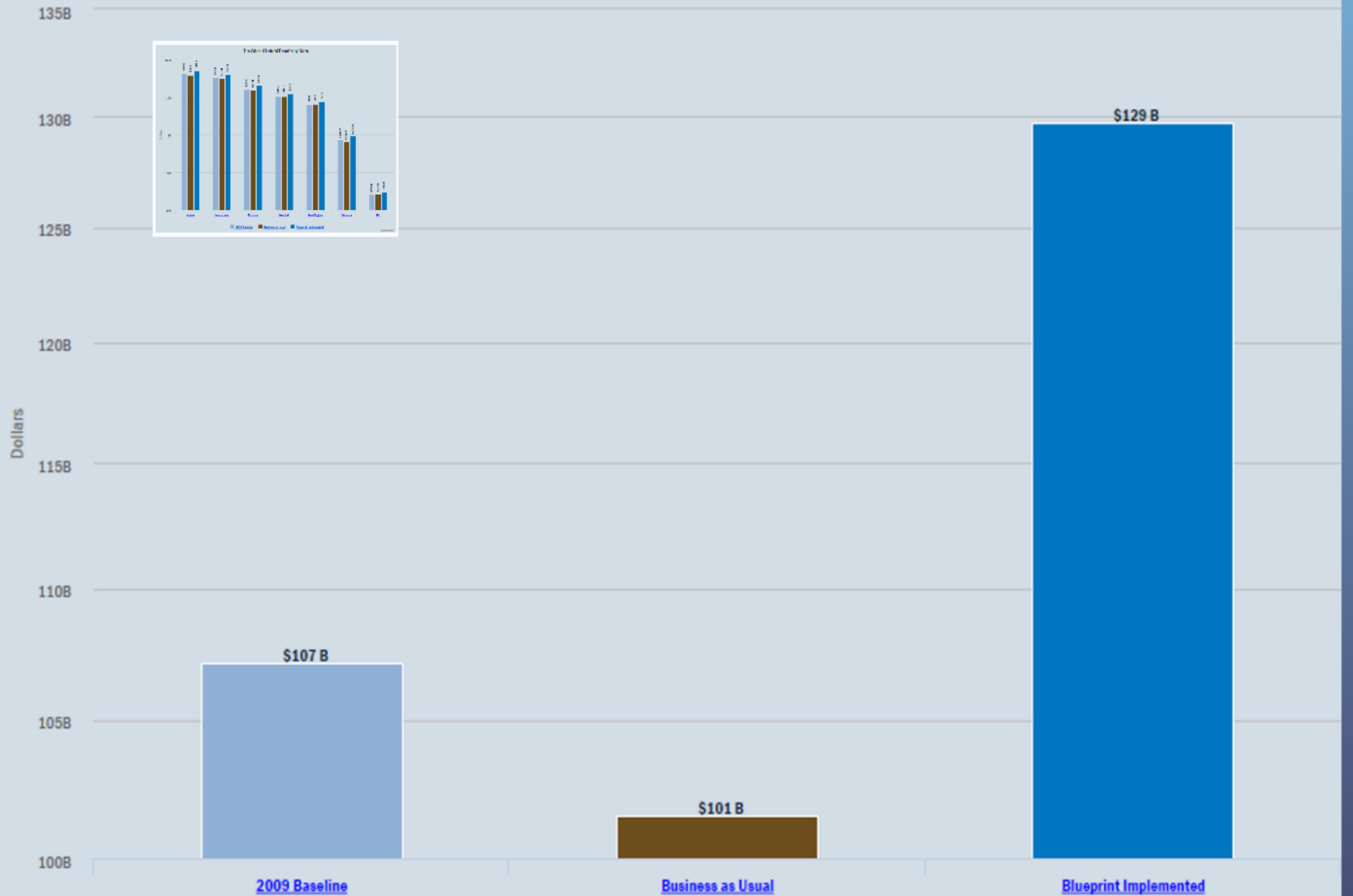
CHESAPEAKE BAY
FOUNDATION

Saving a National Treasure

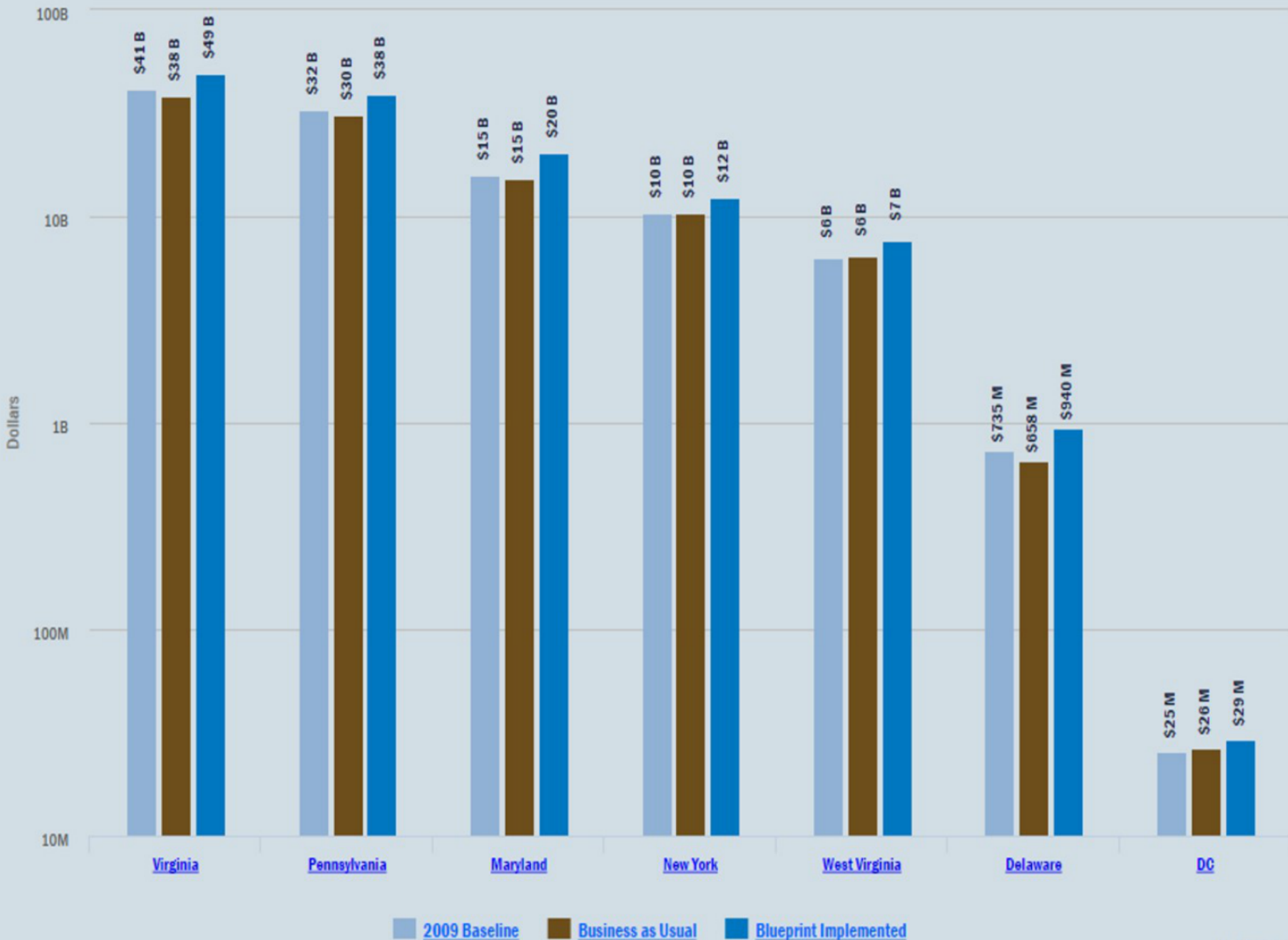
It just makes cents.

Learn more at cbf.org/economicbenefits.

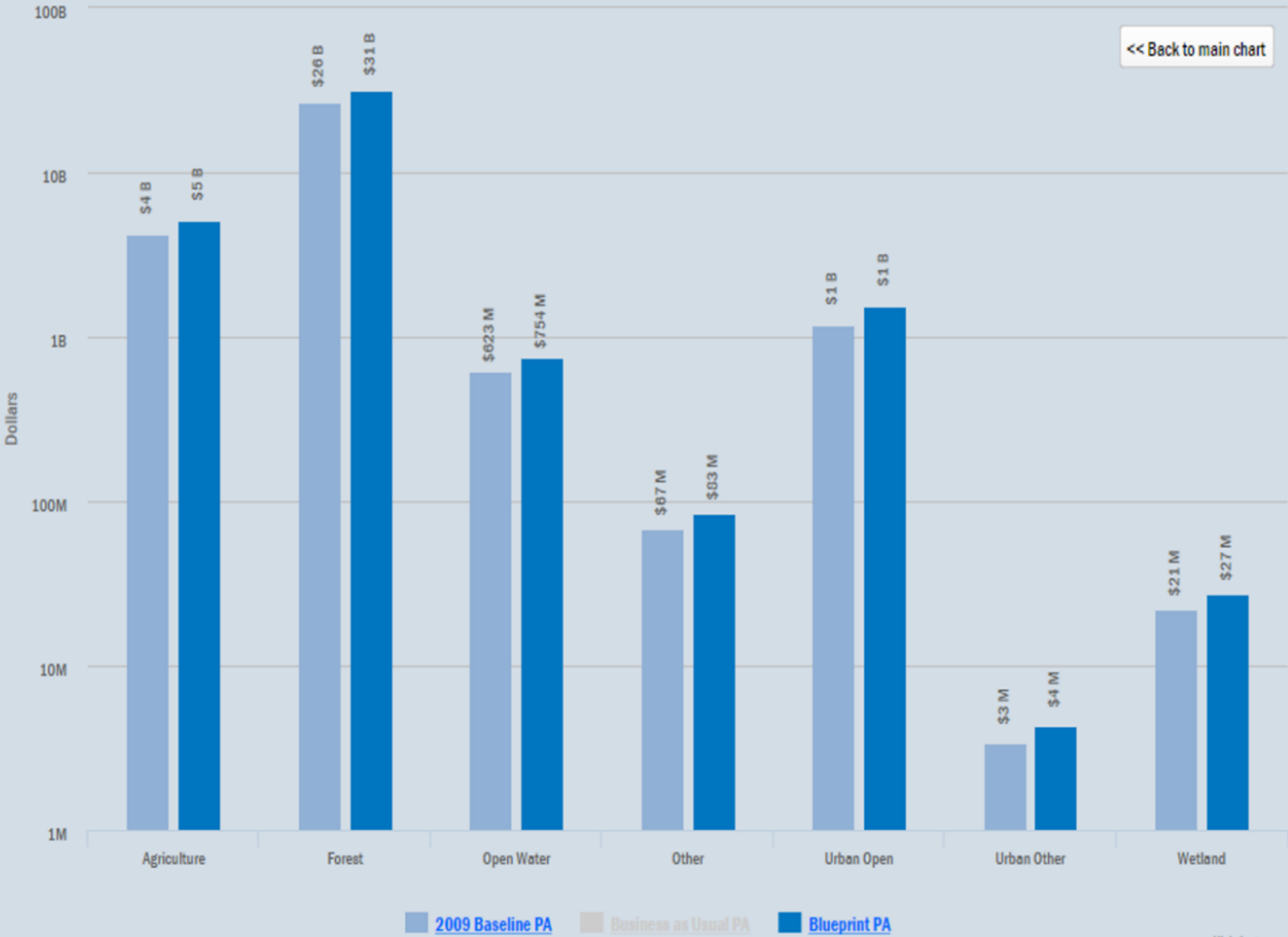
The Value of Natural Benefits Before, With, and Without the Blueprint



The Value of Natural Benefits by State

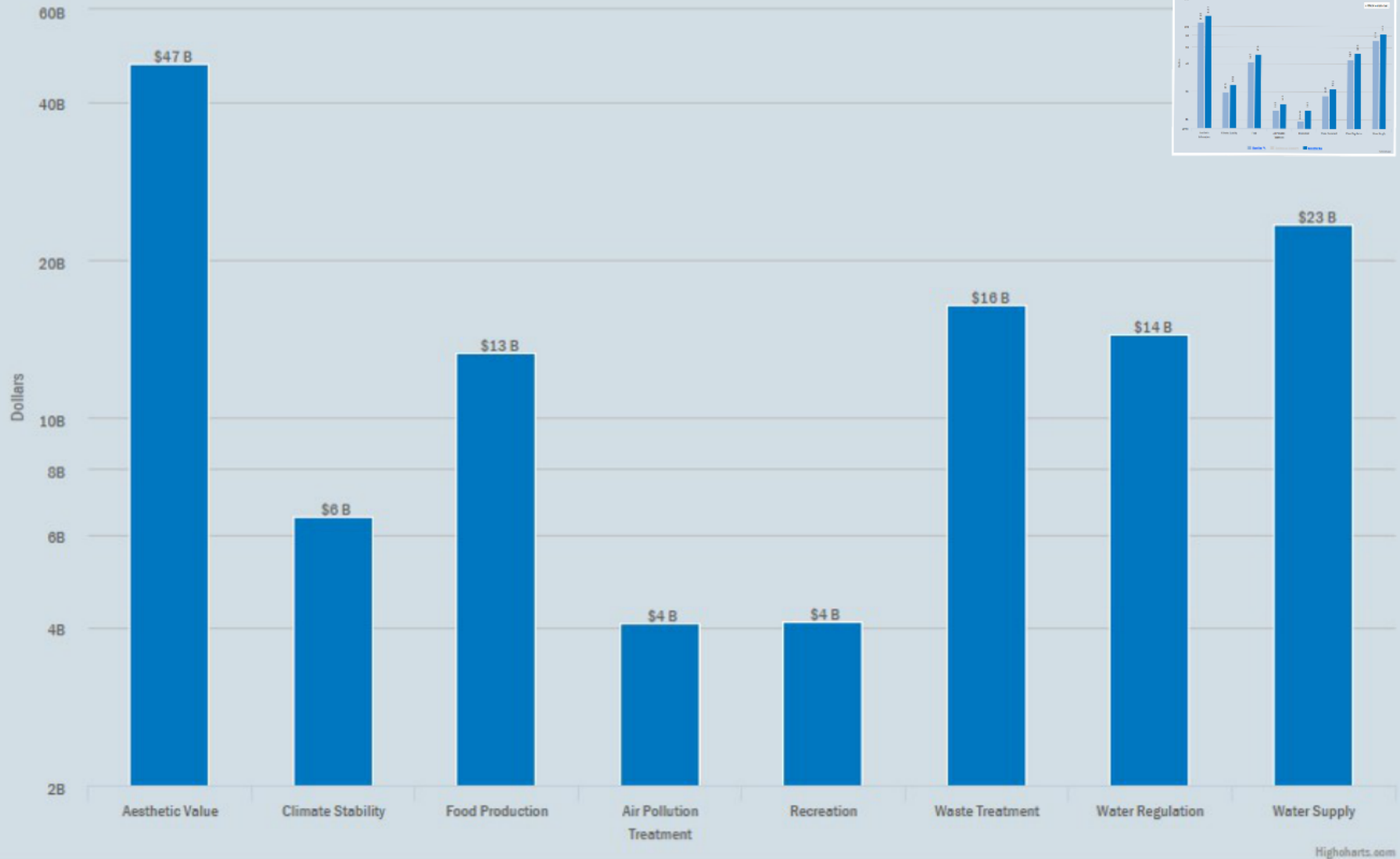


The Value of Land Uses by State



<< Back to main chart

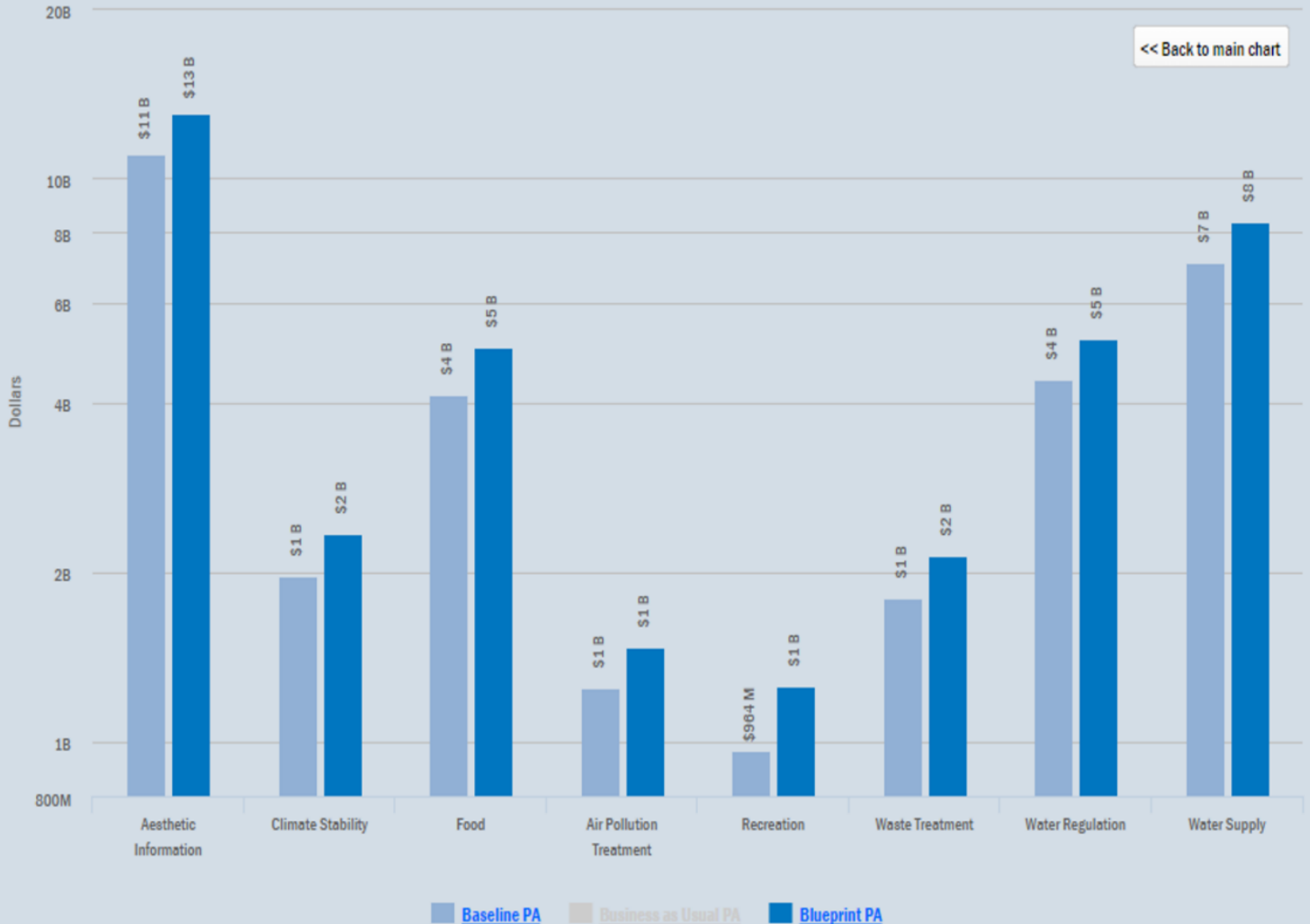
The Value of Natural Benefits Before, With, and Without the Blueprint



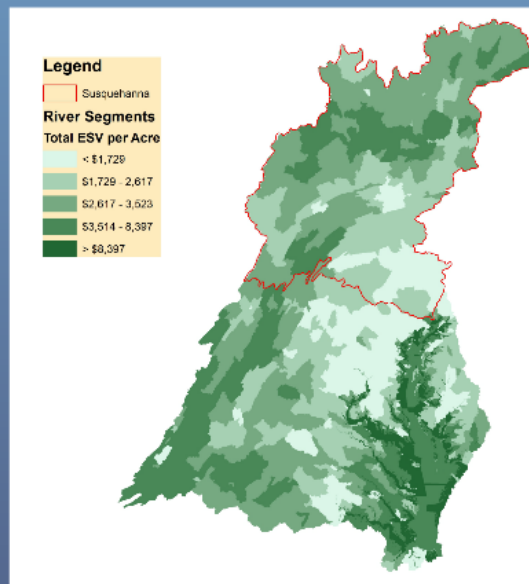
Beauty, water and waste treatment top the list.

The Value of Natural Benefits by State

[<< Back to main chart](#)



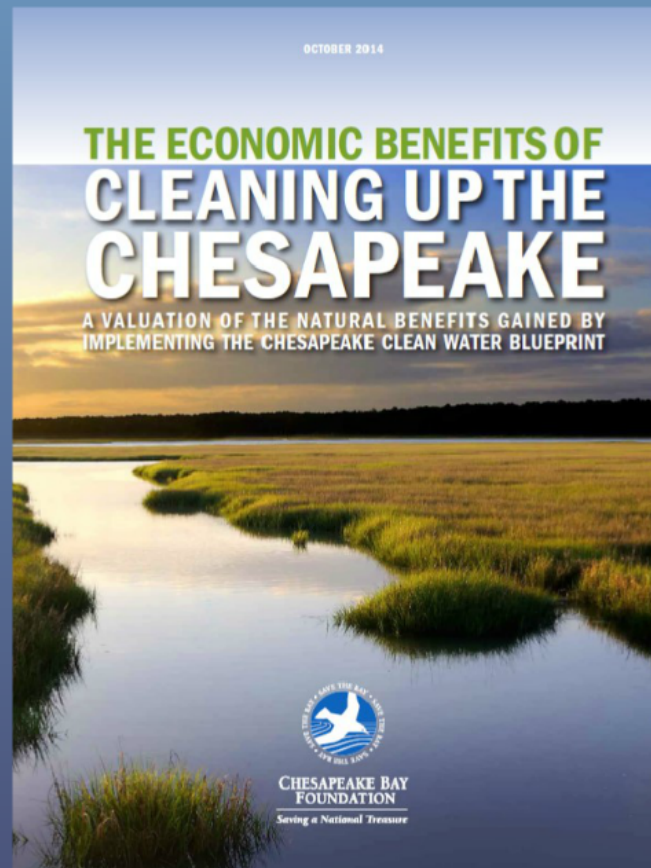
Next steps / Extensions



- 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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