



















The Minnesota Nature Conservancy is launching the \$10 million fund.

By Josephine Marcotty Star Tribune | SEPTEMBER 11, 2015 - 9:33PM



BRIAN PETERSON

The Nature Conservancy is launching an effort to maintain water quality in rivers like the Mississippi, here as dawn breaks at its headwaters in Itasca State Park.

The Minnesota Nature Conservancy is launching a \$10 million fund dedicated to showing that the best way to protect the Mississippi River and the Twin Cities' drinking water is to use nature itself.

The Upper Midwest chapter of the international conservation organization on Friday announced the creation of the private Minnesota Headwaters Fund. Over the next three years it will raise money to pay for targeted protections, such as conservation easements and streambank protections, around the four rivers that are the Mississippi's primary tributaries: the Crow Wing, the Pine, the Sauk and the Rum.

Ecolab Inc., a Minnesota-based water technology company, was the first to donate, with a contribution of \$500,000. The money will be used to keep forested land in its natural state, restore wetlands and flood plains, and protect stream banks.













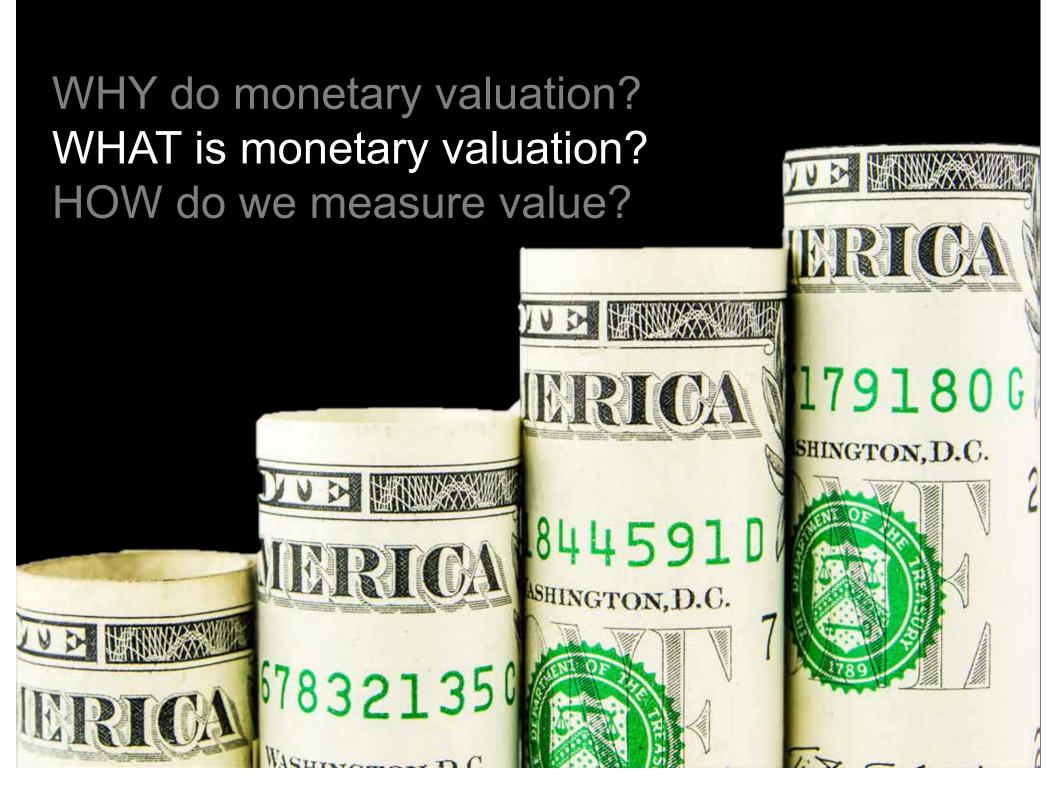


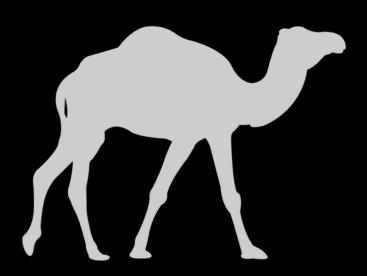
MORE:

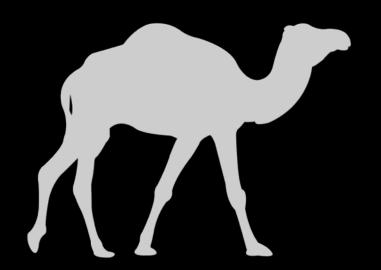
#### protect stream banks.

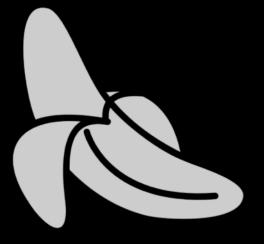
donate, with a contribution of \$500,000. The money will be used to keep forested land in its natural state, restore wetlands and flood plains, and

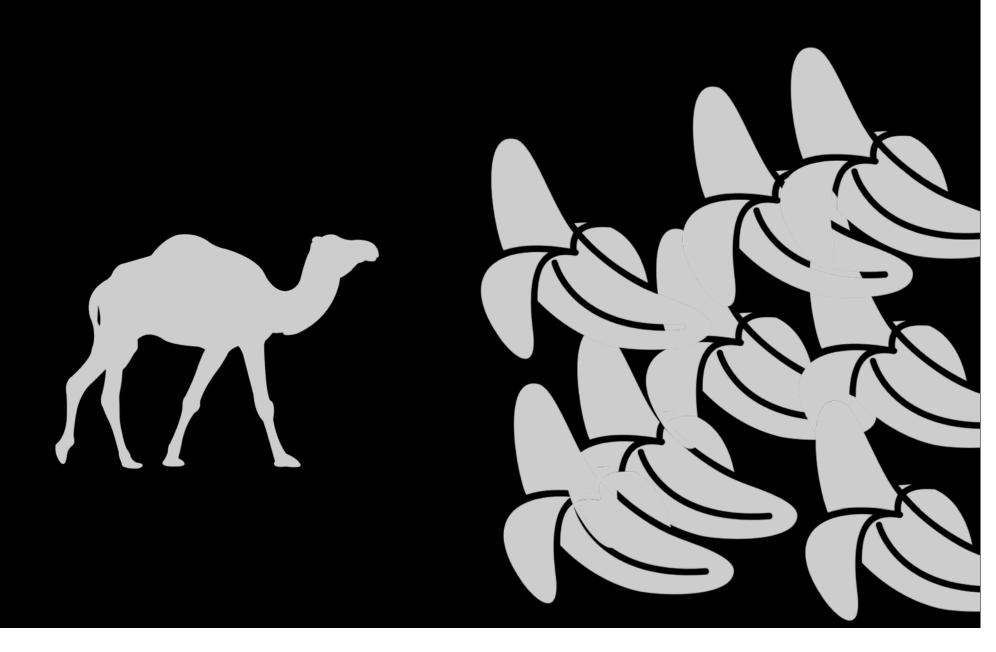


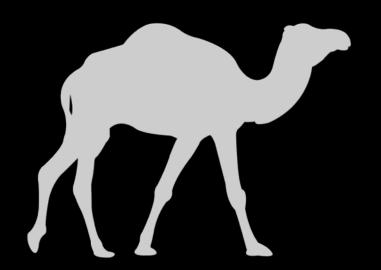


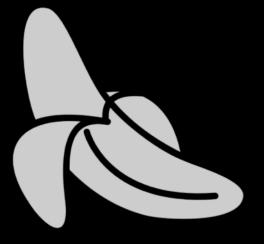


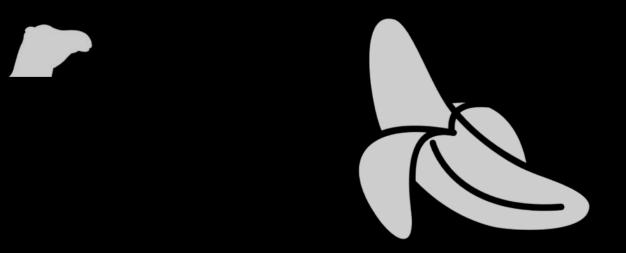


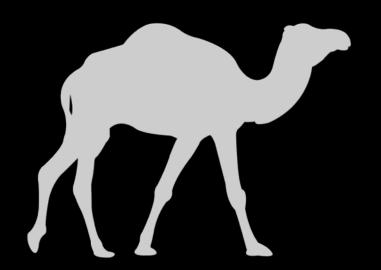


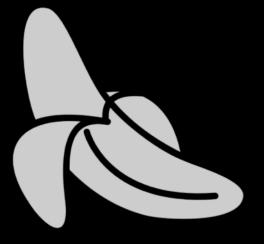






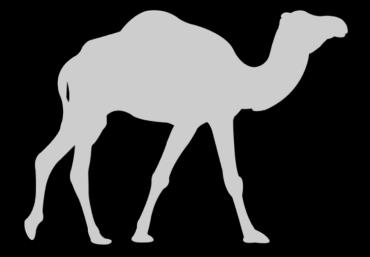






\$\$\$

\$

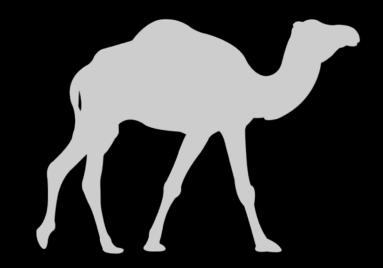




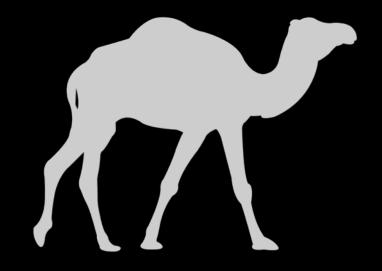
# Valuation is not value

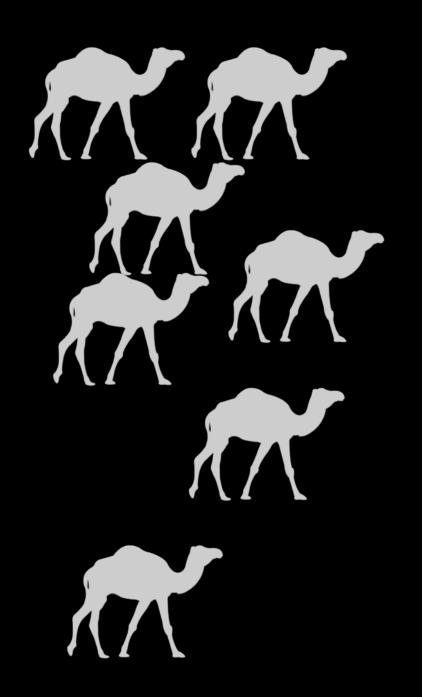


\$\$\$



\$\$\$

















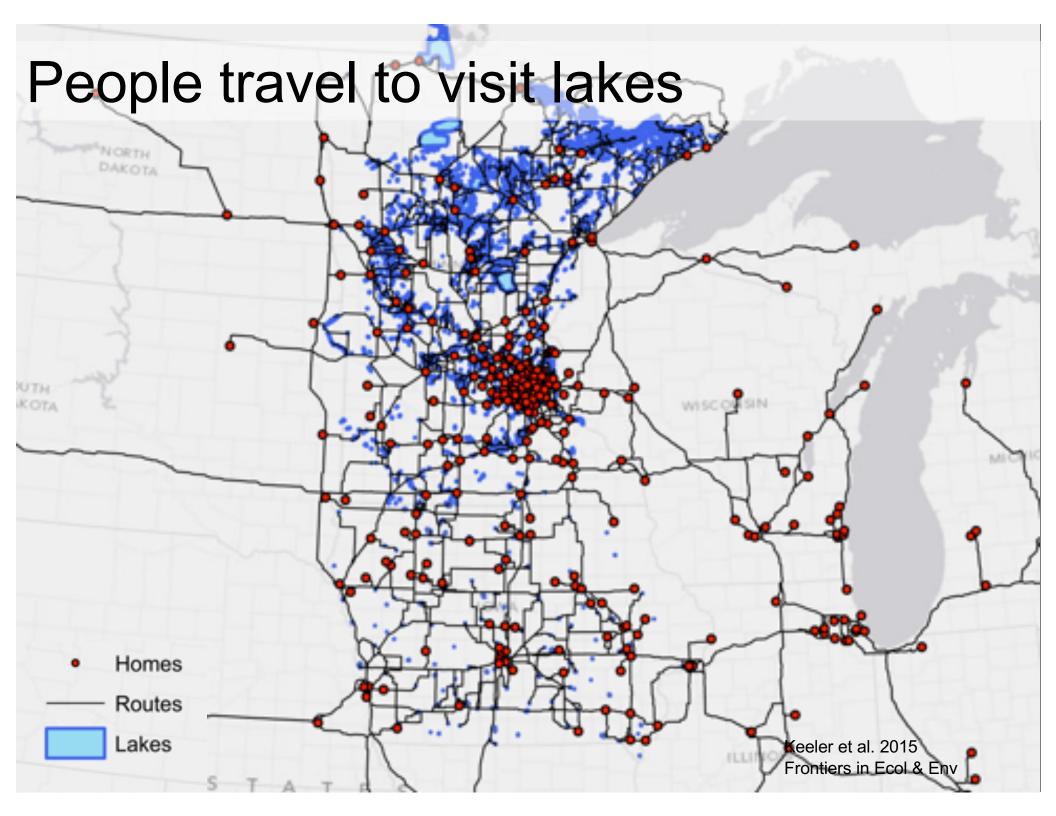


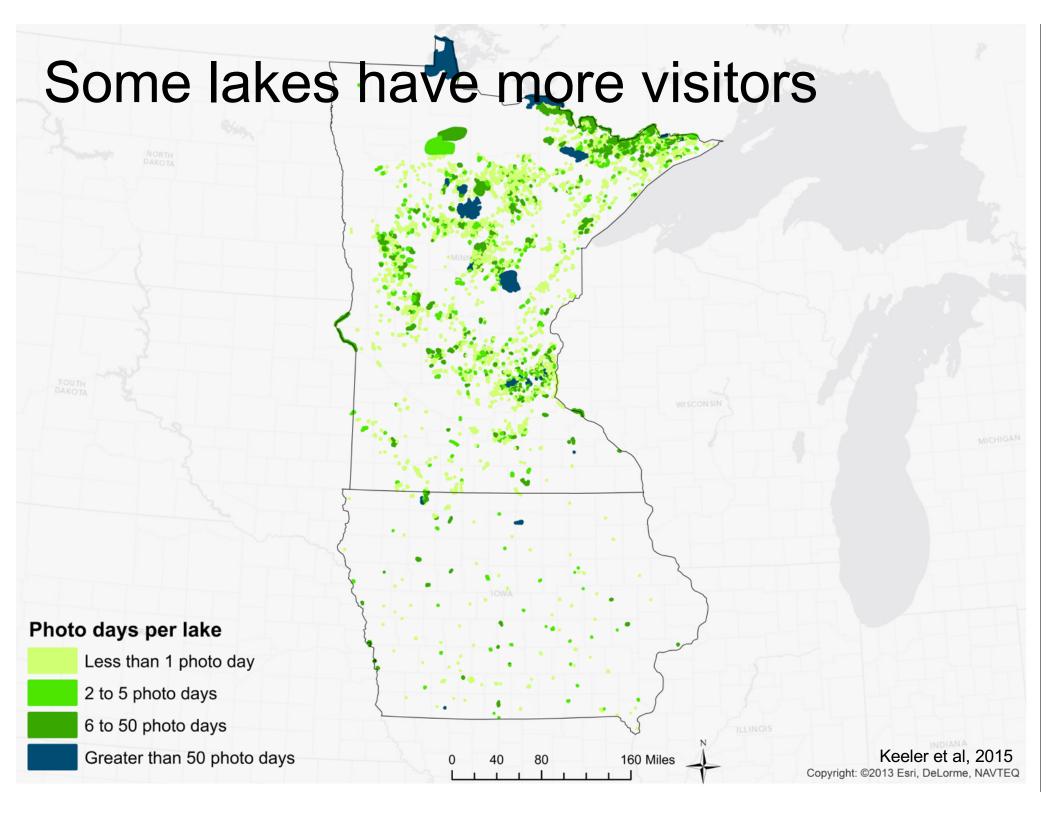




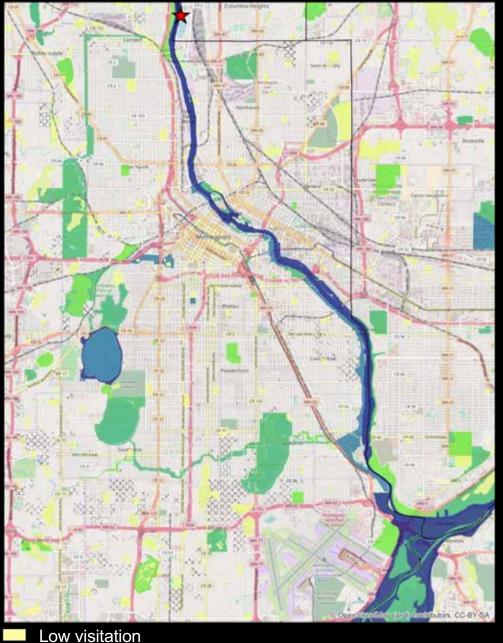
#### Well contamination is expensive







# Cleaner lakes have more visitors Lake clarity Less than 0.5 m 0.5 to 1 m 1 to 3 m Keeler et al, 2015 Greater than 3 m



People in cities visit clean water, too

High visitation

We don't value everything the same way



We don't value everything the same way

 We highly value avoiding events that are out of our control



We don't value everything the same way

 We highly value avoiding events that are out of our control

- We under-value unlikely events



People are much more reluctant to give something up than to not get it at all



People may feel uncomfortable with monetary values for things that they think of as a right









We need to make sure we include the value of the right things, even if they're hard to measure



### **Ecosystem Services**







#### **Ecosystem Services**

Ecosystem Services are the benefits people receive from the environment





#### **Ecosystem Services**

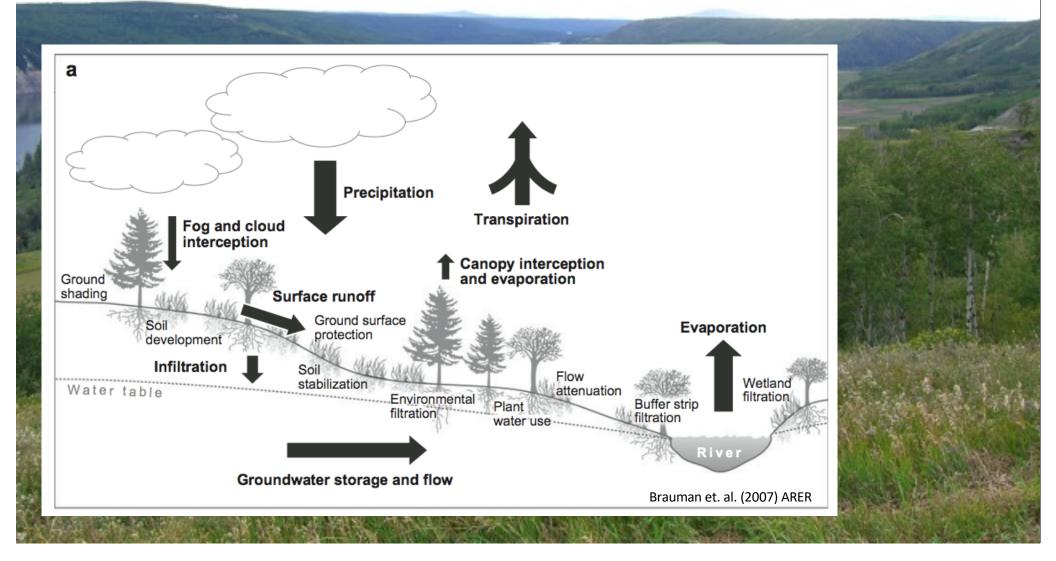
Ecosystem Services are the benefits people receive from the environment





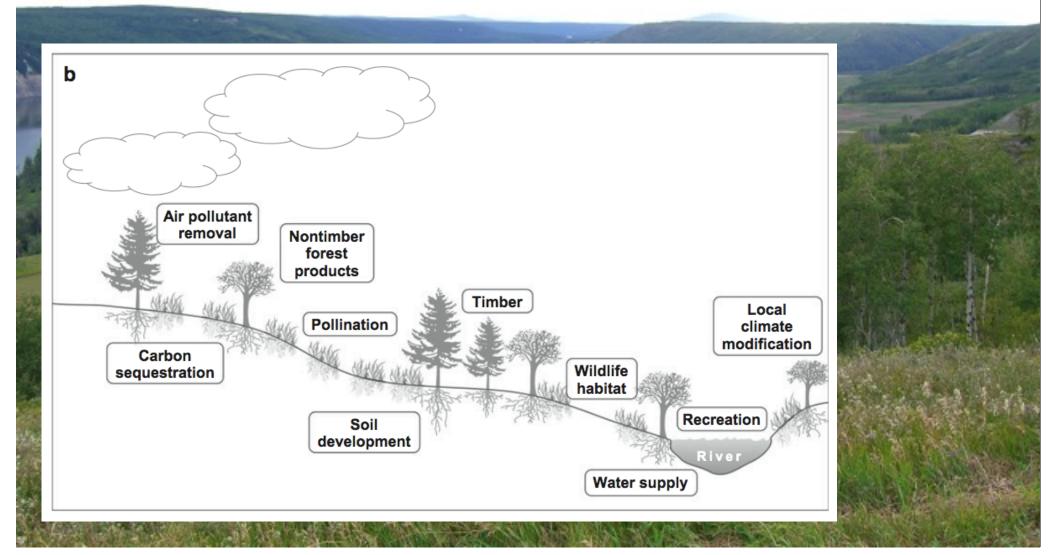


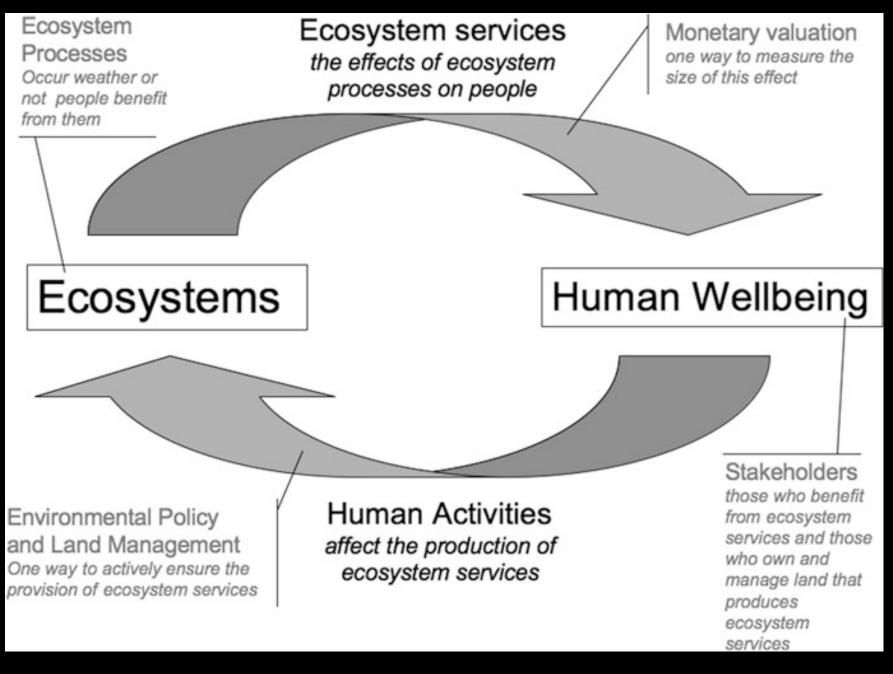
# **Ecohydrologic Processes**

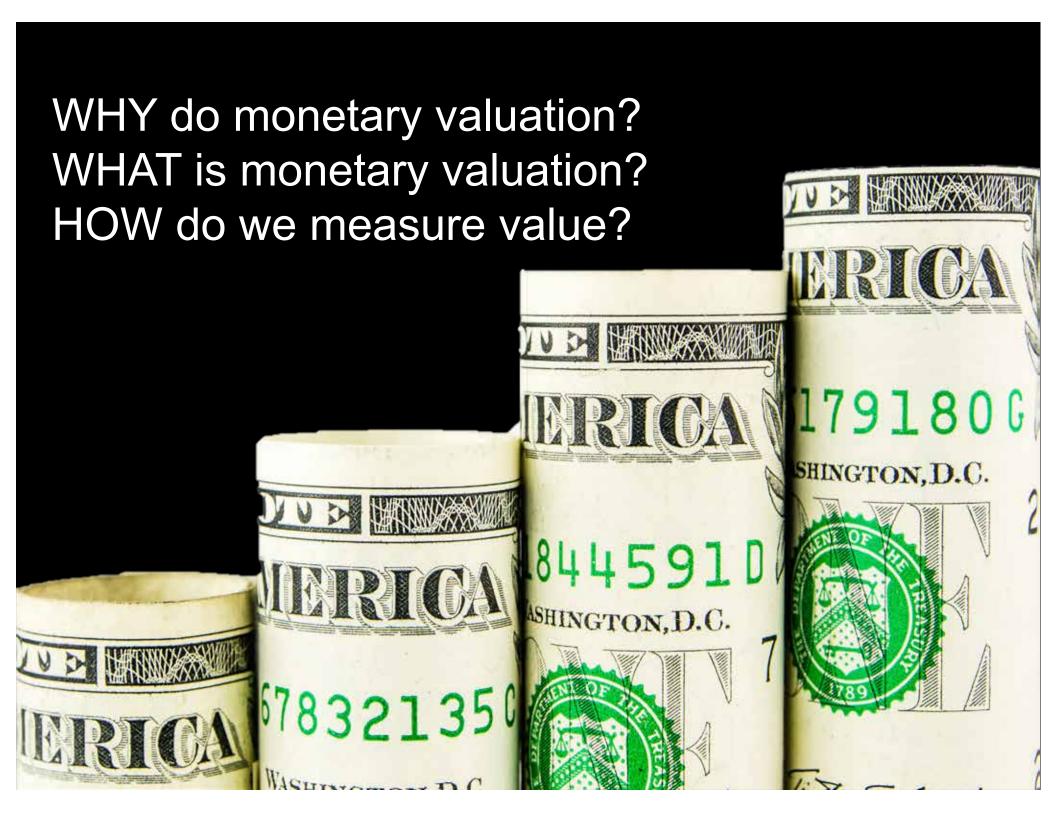


#### **Desired Outcomes**

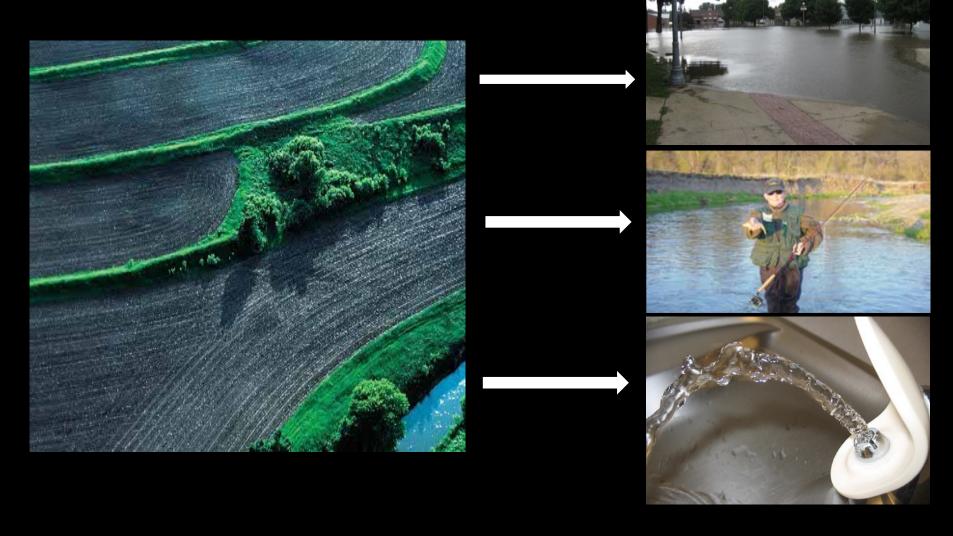
Watershed Ecosystem
Services







## Valuing Conservation and Agricultural BMPs







A land conservation payment of \$1,300 yields public benefits of \$1,700 to \$6,400





## Caring is a value, even when it's hard to put a number on it





INSTITUTE ON THE ENVIRONMENT

University of Minnesota

Driven to Discover™