

Wildland Ecosystem Services: Did YOU Know?

- ✿ The annual economic value for global ecosystem services is estimated at **\$33 trillion!**
- ✿ Nearly **1/4 of prescriptions** written in the U.S. are derived from wild species.
- ✿ Soil erosion leads to losses of services, such as nutrient storage valued at **\$27 billion** per year for the United States alone.



POLLINATION

- ✿ For the U.S. alone, pollination of agricultural crops by wild pollinators has an estimated value of **\$4.1 to \$6.7 billion** per year.
- ✿ **80% of the world's crop species** (fruits, vegetables, coffee, tea, cocoa, spices) are pollinated by wild and semi-wild pollinators.
- ✿ Honeybee crop pollination services are **60-100 times** more valuable than the honey they produce.



WETLANDS

Water Purification, Commodity Production, Flood Control

- ✿ A Presidential science commission calculated that it would cost **\$6 – 8 billion** to construct a water treatment plant for New York City to replace wildland water purification services.
- ✿ A minimum of **\$5 million** would be required to replace the water purification services of the Congaree Bottomland Hardwood Swamp in South Carolina.
- ✿ The marshes of Louisiana produce over **\$200 million** in annual commercial fish and shellfish harvest.

- ✿ The Army Corps of Engineers estimated **\$17 million** in flood damage if wetlands in the Charles River watershed in Massachusetts were destroyed.



RECREATION

- ✿ 77 million Americans spent **\$101 billion** in 1996 on wildlife-associated recreation, including bird watching, wildflower viewing, and hiking.
- ✿ Wildlife-associated recreation supported over **1 million full and part time jobs** nationwide in 1996.



FORESTS

- ✿ A 1989 study found that in the Pacific Northwest, harvest and sale of mushrooms and other non-timber forest products was a **\$128.5 million** industry **employing more than 10,000 people**.
- ✿ National Forest roadless areas in the 48 contiguous states have a value of **\$1 - \$1.5 billion** per year in ecosystem services such as carbon storage, water purification and waste treatment.
- ✿ An average acre of sustainably managed tropical forest is worth approximately **\$220 per year**. This includes: \$69 from non timber forest products (mushrooms, fibers), \$17 from recreation, \$10 from watershed functions including flood control, and \$110 from timber.