

# Angling Economics and A New Survey for 2006

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# **Why We Collect Economic Data About Marine Angling?**

- 11 million anglers took 93 million trips in the US during 2005**
- Provides information necessary for public and private infrastructure and business development**
- Policy makers mandated by law to examine economic benefits, costs and impacts of fisheries management decisions**

# Economic Importance

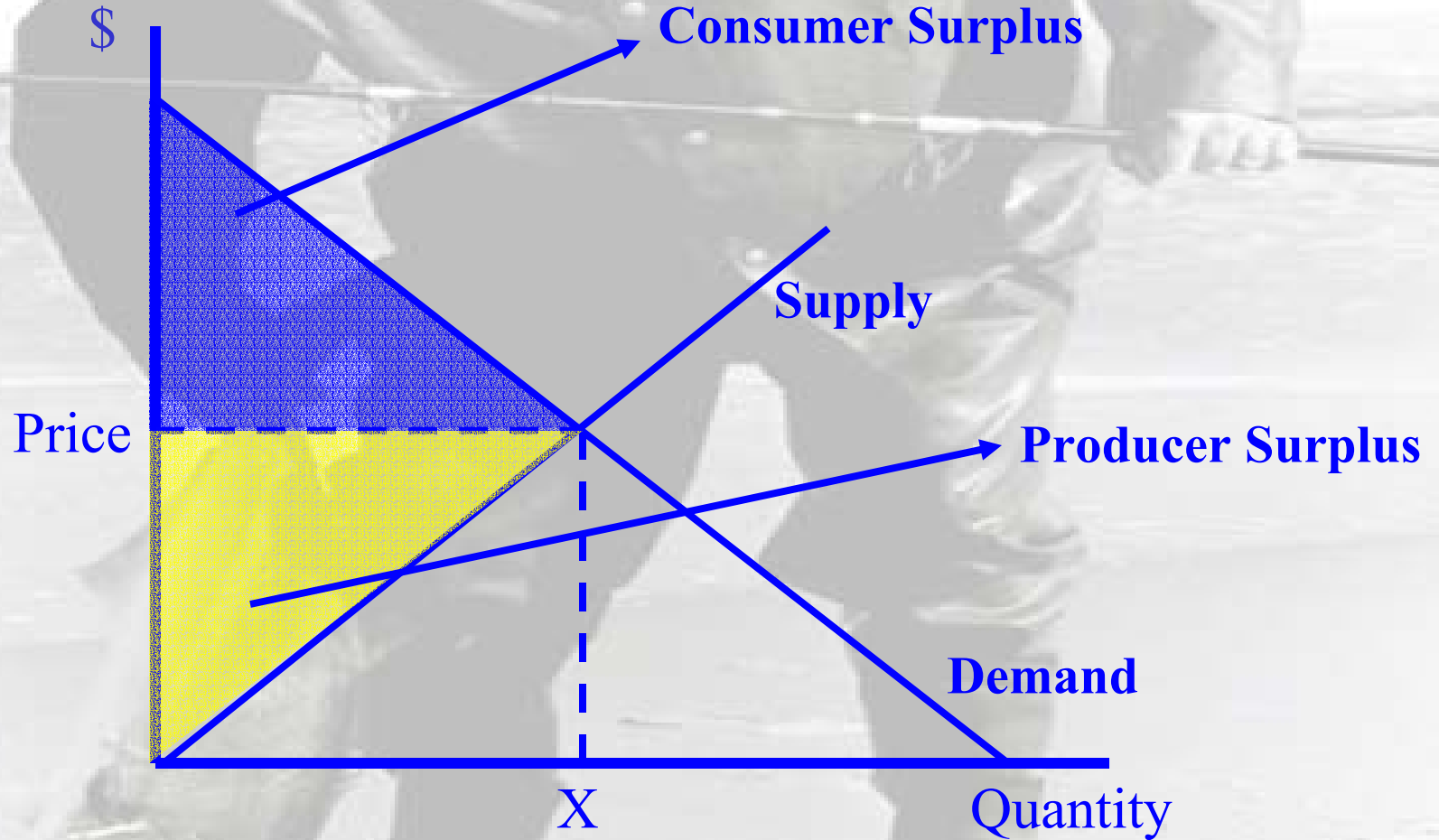
- **Economic Value**

- Monetizes the value people place on resources.
- Is society better or worse off as the result of a policy?

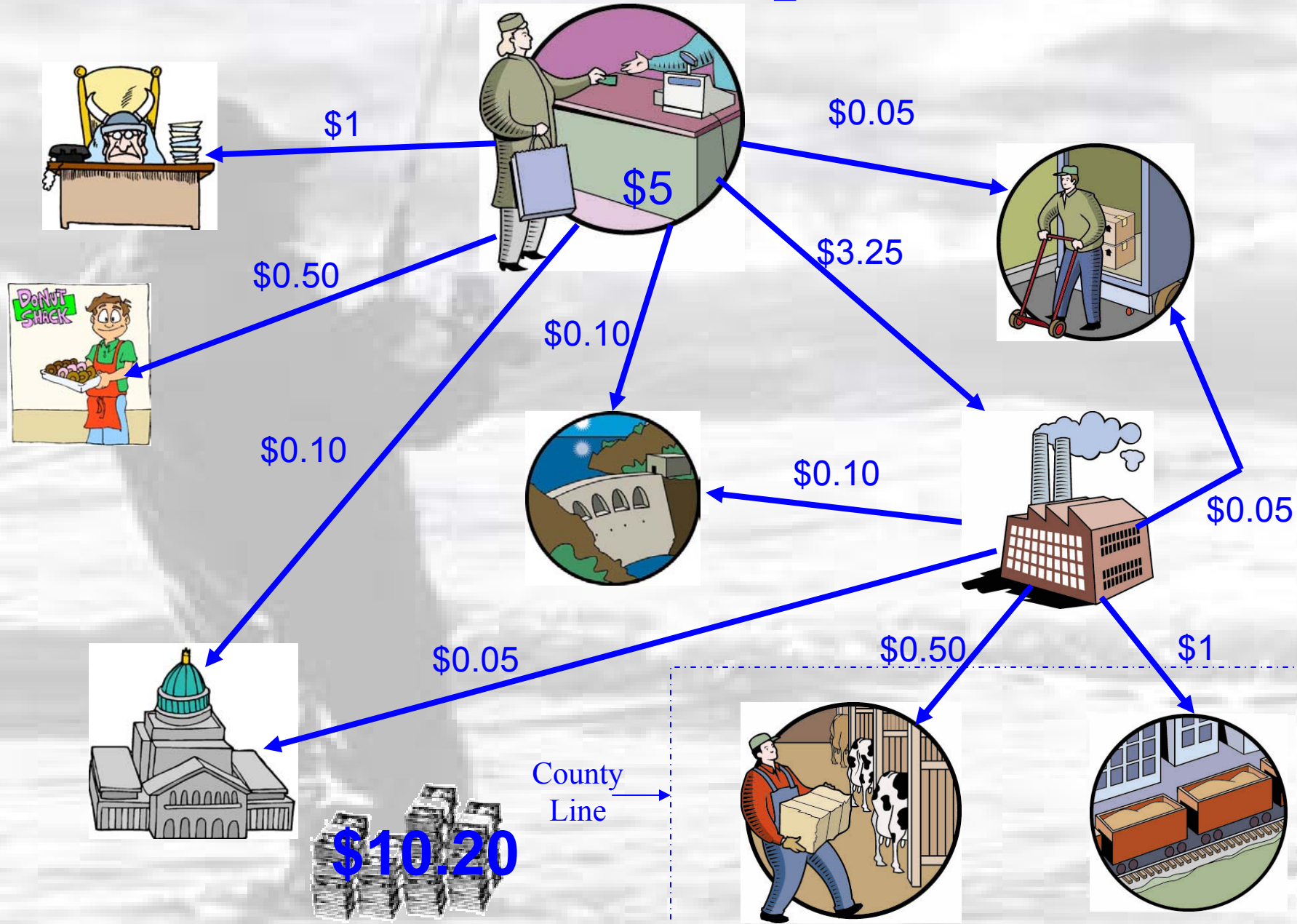
- **Economic Impacts**

- Examines the flow of expenditures through a community.
- Who wins and who loses as a result of a policy?

# Economic Value



# Economic Impacts



# Using Economics for Allocation

- Use net economic benefits – not economic impacts
- Recreation side - consumer + producer surplus
  - Anglers willingness to pay for that next fish
  - Charter and head boat profits
- Commercial side consumer + producer surplus
  - Consumer willingness to pay for fish at the market
  - Commercial harvester and processor profits
- Don't forget diminishing marginal returns

A grayscale photograph of two fishermen on a boat. They are wearing heavy, dark waterproof gear and are focused on handling a large, flat fish, likely a flounder, which is lying on the deck. The background shows the calm surface of the water.

## **Total Value of Access and Catch: Some Selected Estimates**

- **Access in Alabama worth \$3.12 million.**
- **Catching an additional flat fish worth \$44.5 million.**
- **Access in Florida worth \$4.3 billion**
- **Catching and keeping an additional flat fish worth \$754 million**

# Applications – 50% Reduction in the Red Snapper Bag Limit

		1: Reduction in Keep from 4 to 2 Fish		Changes in Expenditures	
Target Species	2003 Effort	Share Change	Effort Change	Average Trip Cost	Total Expenditure Change
Grouper	32,418	-1.05%	-340	\$67.20	-\$22,874
Red Snapper	18,891	-5.18%	-979	\$89.01	-\$87,101
King Mackerel	35,851	1.83%	656	\$69.09	\$45,328
Dolphin	17,556	2.51%	441	\$50.60	\$22,297
No Trip		1.90%	-359	\$68.98	-\$24,757
<b>Net Loss</b>			-581		-\$67,107
<b>Welfare Effects</b>					
	CV per Trip		\$132.28		
	Welfare Loss		\$2,498,901		
<b>Expenditures and</b>					
	Sales Impacts		-\$150,521.01		
	Income Impacts		-\$51,052.45		
	Job Losses		-1.74		



# Angler Expenditures

A background image of a fisherman in waders and a hat, holding a large fish on a beach. The fisherman is standing on the sand, and the ocean is visible in the background.

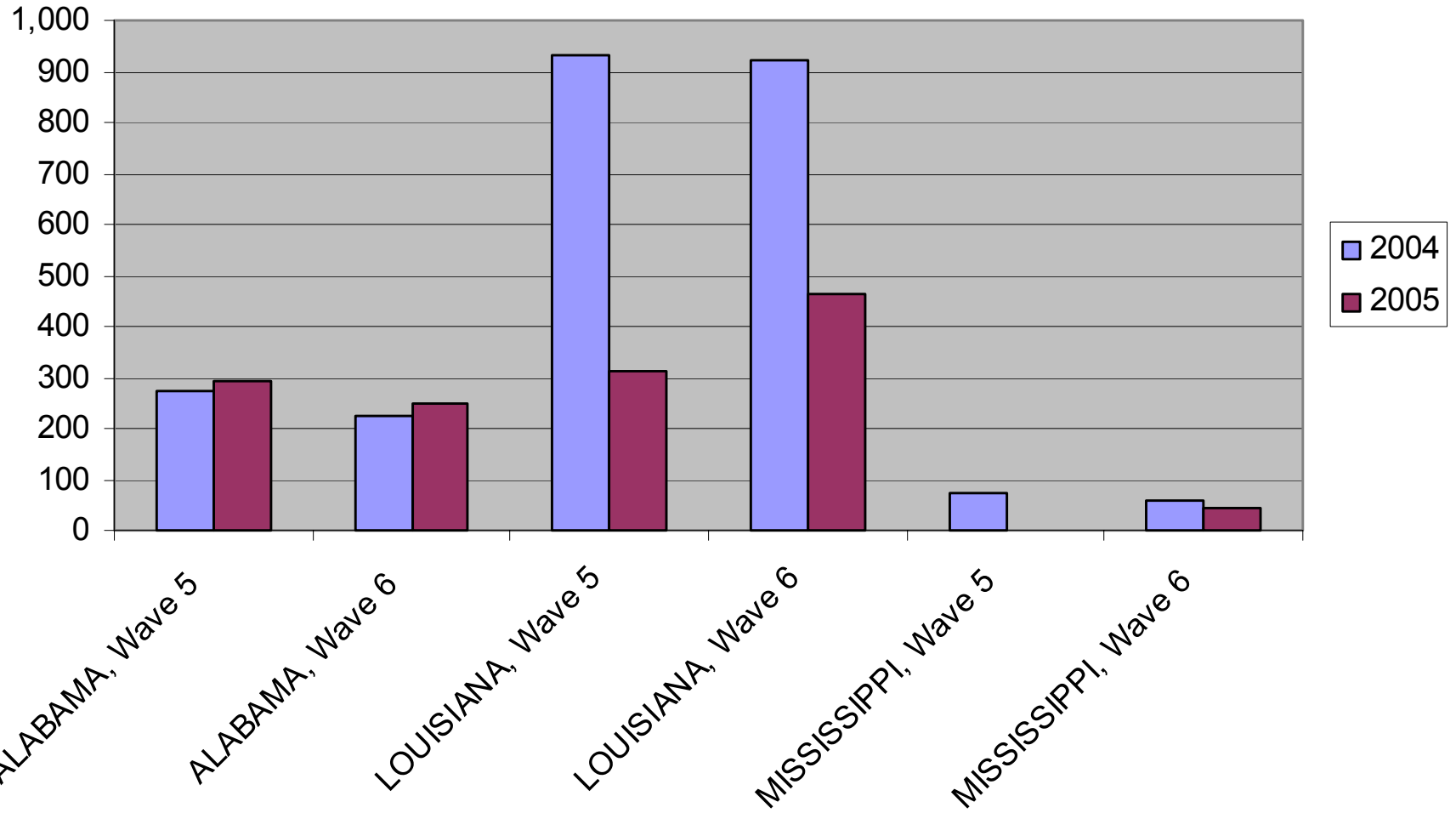
- **Total expenditures \$22.6 in 2000**
  - **Total trip expenditures \$3.5 billion**
  - **Total durable expenditures \$19.2 billion**
- **Top states:**
  - **Florida \$8.4 billion**
  - **California \$2.5 billion**
  - **North Carolina \$1.6 billion**
  - **Washington \$1.4 billion**
  - **Louisiana \$1.2billion**

# **Economic Impacts**

- **Saltwater angling has a BIG impact nationally generating**
  - **\$30.6 billion in sales**
  - **\$12 billion in personal income**
  - **350,000 jobs**
- **Florida Impacts**
  - **\$4.6 billion in sales**
  - **\$1.9 billion in personal income**
  - **64,000 jobs**

# Applications - 2005 Hurricanes

Job Impacts



# How Will This Survey Work?

A background image of a fisherman in a wetsuit standing on a beach, holding a large fish. The fisherman is wearing a hooded wetsuit and is holding a large fish by its tail. The background shows a beach and the ocean.

- **Intercept survey states**
  - Trip expenditures collected in the field using the MRFSS
  - Durable good expenditures collected via a mail follow-up
- **West Coast, Alaska, and Texas**
  - Mail survey
  - Uses angler license frame
- **Highly Migratory Species anglers**
  - Mail survey
  - Uses HMS permit database

A person wearing a white cap and a dark jacket is standing in a field, holding a surveying instrument. The background shows a hazy landscape with other people in the distance. The text is overlaid on the image in a large, bold, blue font.

**This is your survey,  
and we are counting  
on your participation  
to make this a quality  
data collection.**

A faded background image showing two people in waders on a boat, likely engaged in fishing. The image is semi-transparent, allowing the text to be overlaid.

# Help Us Make This Survey a Success!

- Marine recreational fishing is very important to the US economy
- We need to include everyone in our estimates
- Texas, Alaska, Hawaii, and HMS anglers to be included for the first time
- Feel free to send me an email at [brad.gentner@noaa.gov](mailto:brad.gentner@noaa.gov) with any questions