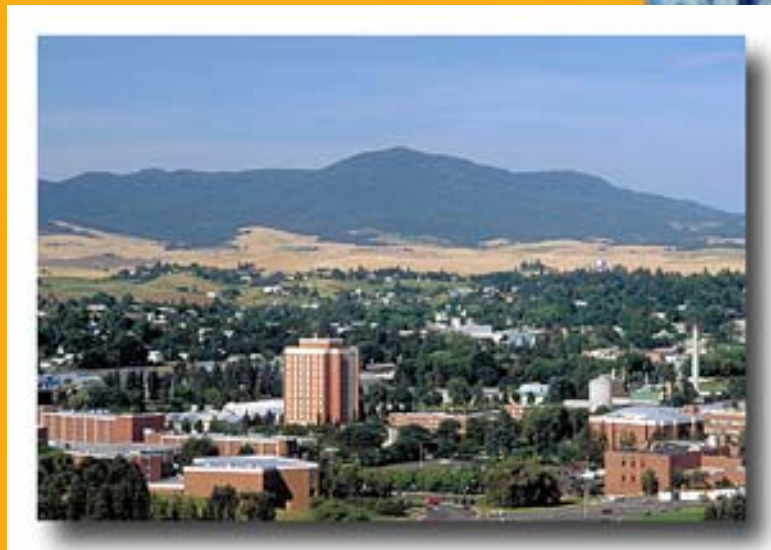


# **Making Sustainability Work**



**@uidaho.edu**

# Sustainability and the University of Idaho

- I. What is Sustainability?
- II. What does sustainability mean for UI?
- III. How do we make UI sustainable?
- IV. What are we doing RIGHT NOW?
- V. What can YOU do?

# I. What is Sustainability?

- “Meeting the needs of the present without compromising the ability of future generations to meet their own needs.”
- Interconnectedness – Humans & the Global Environment
- Sustainable development implies economic growth together with the protection of environmental quality

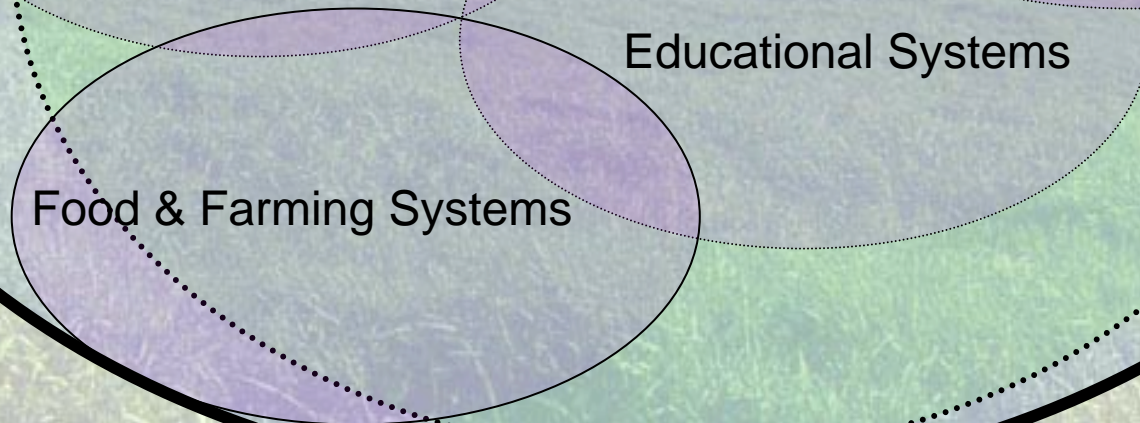
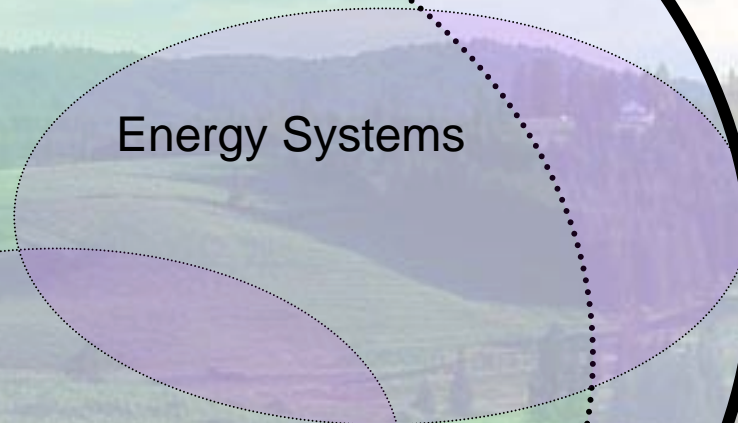
**Vandal commitment to our future**

“Big Picture”



# Global Ecosystem

## Human Systems



**Sustainability:**  
the potential for a system to  
maintain or improve its functioning  
and the benefits derived from it.



## II. Why should UI be sustainable?

# Be It Resolved .... State of Idaho

## Senate Resolution 119 (2005)

- ENCOURAGING DEVELOPMENT OF THE CONCEPT OF SUSTAINABILITY AT IDAHO INSTITUTIONS OF HIGHER EDUCATION.

**FISCAL NOTE** There is no immediate fiscal impact, but the legislature may invest in project concepts in the future.

- LEGISLATURE OF THE STATE OF IDAHO
- Fifty-eighth Legislature First Regular Session – 2005
- SENATE CONCURRENT RESOLUTION NO. 119

### Bill Text

LEGISLATURE OF THE STATE OF IDAHO  
Fifty-eighth Legislature First Regular Session - 2005

IN THE SENATE

SENATE CONCURRENT RESOLUTION NO. 119

BY STATE AFFAIRS COMMITTEE

1 A CONCURRENT RESOLUTION  
2 STATING FINDINGS OF THE LEGISLATURE AND ENCOURAGING DEVELOPMENT OF THE CONCEPT  
3 OF SUSTAINABILITY AT IDAHO INSTITUTIONS OF HIGHER EDUCATION.

4 Be It Resolved by the Legislature of the State of Idaho:

5 WHEREAS, the people of the state of Idaho are justifiably proud of our  
6 rich tradition of quality institutions of higher education and preservation of  
7 our natural resources; and

8 WHEREAS, Idaho's institutions of higher education should be models for the  
9 wise stewardship of economic and environmental resources; and

10 WHEREAS, the state of Idaho and its institutions of higher education bear  
11 profound responsibility to increase awareness, knowledge, technology and tools  
12 that will lead the state of Idaho to a prosperous and sustainable future; and

13 WHEREAS, environmental sustainability has been defined as meeting the  
14 needs of the present without compromising the ability of future generations to  
15 meet their own needs and may include use of resources in a manner that allows  
16 the resources to be replenished by natural systems, as well as avoidance of  
17 pollution that damages biological systems and emphasizes use of resources in  
18 such a manner that they will never be exhausted; and

19 WHEREAS, the state of Idaho should encourage the mobilization of internal  
20 and external resources so its institutions can collaborate to develop a concept  
21 of sustainability that reflects Idaho's unique values and involves all  
22 stakeholders; and

23 WHEREAS, education is critical for pursuing a sustainable future for  
24 Idaho; and

25 WHEREAS, education for sustainability increases the power of all Idahoans  
26 to address future economic and environmental realities; and

27 WHEREAS, the state of Idaho's major industries have benefited from, and  
28 will continue to benefit from, commitment to an institutional focus on  
29 research and development of new ideas and technologies that will lead to a  
30 sustainable future; and

31 WHEREAS, the University of Idaho is paving the way to the future through  
32 innovative research, collaboration with statewide extensions and private  
33 industry, and the development of an effective sustainability curriculum.

34 NOW, THEREFORE, BE IT RESOLVED by the members of the First Regular Session  
35 of the Fifty-eighth Idaho Legislature, the Senate and the House of Representa-  
36 tives concurring therein, that an educational focus on sustainability will  
37 lead the state of Idaho to the realization of its economic aspirations, environ-  
38 mental goals, and beyond our greatest expectations for the future.

# UI President's Plan for Renewal of People, Programs and Place

## Five Strategic Themes

1. Promoting science and technology
2. Advancing the liberal arts and sciences
3. Catalyzing entrepreneurial innovation
4. Stewarding the environment
5. Understanding sustainable design and lifestyle

**“Now is the time to summon the will for change .... The need to align our resources with focused priorities is pivotal for achievement ... for the future ... and to serve the people of Idaho, the nation and the world.”**

**- President Tim White, Feb. 11, 2005**

The Harris Poll. Aug. 9-16, 2005. N=1,217 adults nationwide. MoE ± 3 (for all adults).

“Do you agree or disagree with this statement? **Protecting the environment is so important that requirements and standards cannot be too high, and continuing environmental improvements must be made regardless of cost.**”

	Agree %	Disagree %	Unsure %
8/9-16/05	74	24	1

“Do you think there is too much, too little, or about the right amount of government regulation and involvement in the area of environmental protection?”

	Too much %	Too little %	About Right %	Unsure %
ALL adults	19	47	32	2
Republicans	29	23	45	4
Democrats	15	51	26	1
Independents	17	55	23	5



**“The majority of people in the U.S. care about sustaining our environment”**

“For each of the following, please tell me if you feel they give more than their share, just about right, or less than their share to help reduce environmental problems...”

	Less Than Their Share %	About Right %	More Than Their Share %	Unsure %
"Environmental groups"	16	39	42	2
"The media"	44	37	18	1
"State or local government"	46	43	10	2
"General public"	63	26	10	1
"Local businesses"	50	38	9	3
"The President"	53	36	8	3
"The Congress"	57	31	8	3
"Large corporations"	71	21	6	1

**“ 74% agree that continuing environmental improvements must be made...”**

# But if everyone on the planet lived like us, we would need 5.3 planets


**quiz results**  bookmark this page 

CATEGORY	ACRES
FOOD	5.9
MOBILITY	1.5
SHELTER	7.7
GOODS/SERVICES	8.4
<b>TOTAL FOOTPRINT</b>	<b>24</b>

IN COMPARISON, THE AVERAGE ECOLOGICAL FOOTPRINT IN YOUR COUNTRY IS 24 ACRES PER PERSON.

WORLDWIDE, THERE EXIST 4.5 BIOLOGICALLY PRODUCTIVE ACRES PER PERSON.

IF EVERYONE LIVED LIKE YOU, WE WOULD NEED 5.3 PLANETS.



[→ TAKE ACTION!!](#)

## ecological footprint QUIZ

### ECOLOGICAL FOOTPRINT CAMPAIGN

- ▶ Join the Campaign!
- ▶ Who are We?
- ▶ About the Footprint Quiz
- ▶ Support the EF Quiz

### EMAIL

- ▶ Email a Friend
- ▶ Email Results to Yourself

### WHAT YOU CAN DO

- ▶ Individuals
- ▶ Community Members and City Officials
- ▶ Businesses
- ▶ Nation
- ▶ Schools and Campuses

• How long do we have?

• Where should we be going?

# III. What do we have to do to be Sustainable?

**Answer:** Know what areas we need to be sustainable in:



- Energy & Water
- Buildings & Grounds
- Transportation
- Food
- Purchasing, Consumption & Waste
- Student Life
- Outreach to City, State & Region
- Curriculum
- Research
- Development & Marketing
- Recruitment & Retention
- Policy Commitment

# Talloires Declaration (1990)

University administrators commit to sustainability and environmental literacy in:

- teaching
- research
- operations
- outreach

Talloires signers today:

- over 300 universities
- in over 40 countries



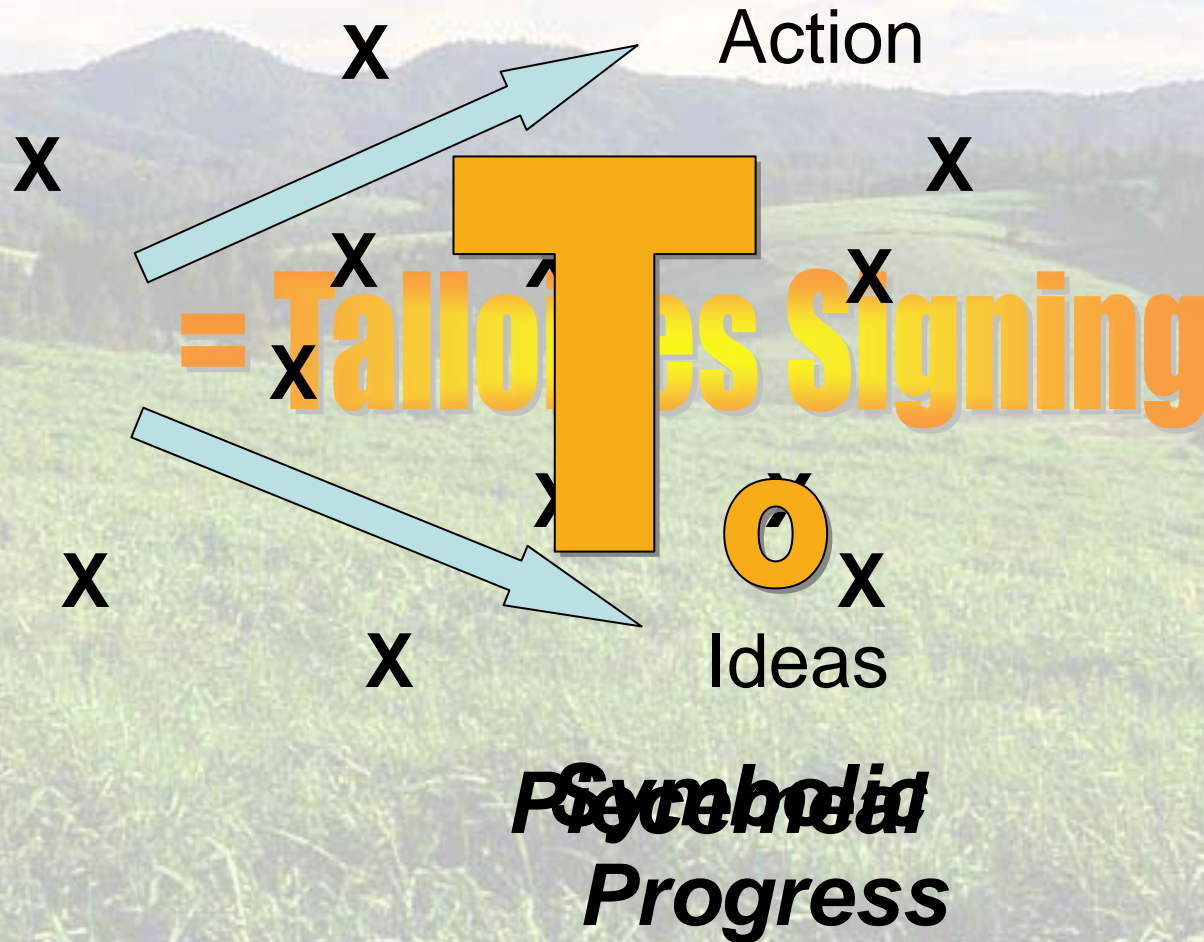
March 2005: UI President  
Tim White signs Talloires

# Talloires: 10 Principles for Sustainability in Higher Education

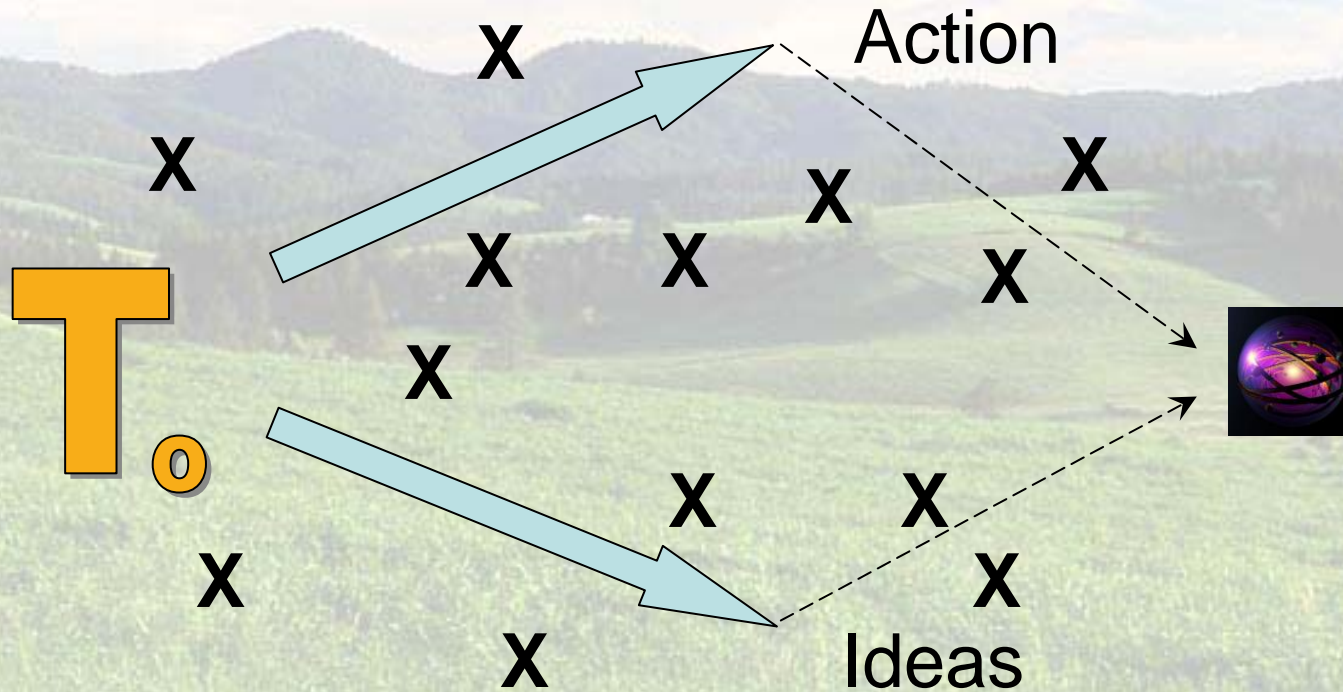
1. Increase awareness of environmentally sustainable development
2. Create an institutional culture of sustainability
3. Educate for environmentally responsible citizenship
4. Foster environmental literacy for all
5. Practice institutional ecology
6. Involve all stakeholders...which is just about everyone
7. Collaborate for interdisciplinary approaches
8. Enhance capacity of primary and secondary schools
9. Broaden service locally, nationally, and internationally
10. Maintain the sustainability movement

*March 2005: President White signs Talloires Declaration. This commits UI to developing an implementation plan.*

# Implementing Talloires














































# Implementing Talloires





***Focus on Central Plan***

# IV. What are we doing RIGHT NOW?

Measuring Our Sustainability	Operations	Policy	Curriculum	Student Life	Research	Outreach
Energy						
Transportation						
Food Systems						
Purchasing/ Waste						
Bldgs/Grounds						
Student Govt & Clubs						
Water Resources						

 = None to Little

 = Some

 = Very Active

○ = None to Little

◐ = Some

● = Very Active

Measuring Our Sustainability	Operations	Policy	Curriculum	Student Life	Research	Outreach
Energy	◐	○	○	◐	◐	○

# Energy

- **Conversion to CF (compact fluorescent) lightbulbs**  
*Leader: Environmental Club + Facilities*
- **Biodiesel plant breeding and processing**  
*Leaders: Bio & Ag Engineering, Plant Science, NIATT*
- **UI Computer Labs transition from CRTs to conserve electricity, decrease hazardous waste**  
*Leaders: ITS, Student Government*

○ = None to Little

◐ = Some

● = Very Active

Measuring Our Sustainability	Operations	Policy	Curriculum	Student Life	Research	Outreach
Transportation	○	○	◐	○	◐	○

# Transportation

- **NIATT Sustainable Transportation Conference, Sept. 2005**  
*Leader: Nat'l Inst. for Advanced Transportation Technology*
- **Wheatlands bus service expansion, 2004**  
*Leaders: Latah County, City of Moscow, PCEI, UI, WSU, others*



○ = None to Little

◐ = Some

● = Very Active

<b>Measuring Our Sustainability</b>	Operations	Policy	Curriculum	Student Life	Research	Outreach
<b>Food Systems</b>	◐	○	◐	◐	◐	○

## **Food Systems**

- **Soil Stewards student-run campus sustainable farm organically grown produce for CSA, farmstand, & dining hall**  
*Leader: Soil Stewards Club with PSES*
- **Fair-Trade & Organic Coffee**  
*Leader: Environmental Club with Campus Dining Services*
- **‘Cultivating Success’ small-acreage sustainable farming & ranching classes**  
*Leader: PSES (CALs) and off-campus partners*

○ = None to Little

◐ = Some

● = Very Active

<b>Measuring Our Sustainability</b>	Operations	Policy	Curriculum	Student Life	Research	Outreach
<b>Purchasing/Waste</b>	◐	◐	○	○	○	○

## ***Purchasing/Waste***

- ***Increased computer accessibility has helped lead to a 32% decrease in campus printer paper use since 1999.***

***Leader: UI Facilities, Student Government, ITS***

- ***190 tons of equipment and material were diverted from landfill through reuse in FY03.***

***Leader: UI Facilities***



○ = None to Little

◐ = Some

● = Very Active

Measuring Our Sustainability	Operations	Policy	Curriculum	Student Life	Research	Outreach
Bldgs/Grounds	◐	○	●	○	◐	◐

# Buildings/Grounds

- **College of Architecture curriculum focuses around sustainable design**

*March 2005: President Tim White promises next UI building will be “green”*



○ = None to Little

◐ = Some

● = Very Active

Measuring Our Sustainability	Operations	Policy	Curriculum	Student Life	Research	Outreach
Student Govt & Clubs	◐	○	○	◐	◐	◐

## Student Government & Clubs

### GPSA (Graduate Professional Student Assoc.)

Director of Sustainability, starting 2005  
Dir. Env. & Social Sustainability + Committee, starting 2005  
Ecofootprint interactive quiz display, Earth Day sponsor

Recycled paper & office supplies, partner in E-Club reusable coffee cups, commitment to sustainability in events

Soil Stewards  
Providing Sustainability Calendar at:  
Students for Sustainability  
[http://www.gpsa-idaho.org/index.php/UI\\_Sustainability\\_Calendar](http://www.gpsa-idaho.org/index.php/UI_Sustainability_Calendar)  
more?

○ = None to Little

◐ = Some

● = Very Active

Measuring Our Sustainability	Operations	Policy	Curriculum	Student Life	Research	Outreach
Water Resources	◐	◐	◐	◐	●	●

# Water Resources

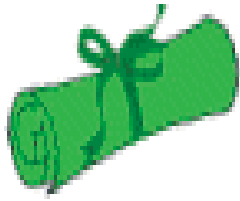
- Irrigation with graywater on lawns, grounds***  
***Leader: UI Facilities***



# V. What can YOU do?

- Support Implementation of Talloires
  - Support student government joint resolutions regarding sustainability
  - Help establish a sustainability resource center
  - Become a sustainability coordinator

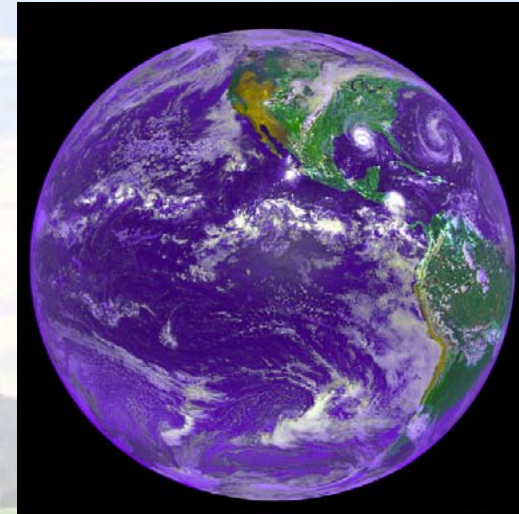




# Graduation Pledge Alliance

“ I \_\_\_\_\_ pledge to explore and take into account the social and environmental consequences of any job I consider and will try to improve these aspects of any organization for which I work”

# 7 actions you can take to make a global difference



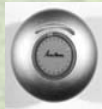
## 1. Decrease Your Car Use

For every gallon of gas that is saved, 20 pounds of carbon dioxide are not released into the atmosphere. If every commuter car had another passenger, 600,000 gallons of gasoline could be saved a year.



## 2. Turn Your Thermostat Down

Turning your thermostat down 2-3° in the winter and up 2-3° in the summer cuts your energy consumption by 10%. If you change it 2° you will prevent the emissions of 500 pounds of carbon dioxide a year.



## 3. Skip the Beef One Day a Week

It takes 12,000 gallons of water to produce 1 pound of beef, and 60 to produce 1 pound of potatoes. If 1,000 people skip beef for 1 day a week we will save 40,000,000 gallons of water a year. Since 1950, meat consumption has increased 5-fold – twice as fast as population.



## 4. Install High-Efficiency Faucets and Showerheads

If 1,000 students install high-efficiency faucets and showerheads, we will save 8,000,000 gallons of water a year. Although water covers more than 70% of our planet, useable fresh water makes up less than 1% of the earth's total water.



## 5. Shift your Shrimp and Fish Consumption

Nearly 70% of the ocean's fisheries are over-harvested. Each year 60 billion pounds of seabirds, sharks, and fish die to accidental harvest. If 1,000 students stop eating fish we can save 12,000 pounds of sea life.



## 6. Stop the Senseless Disposal of Paper

If everyone recycled their newspaper for one Sunday, we'd save 550,000 trees or 26 million trees a year. By recycling paper we use 60% less energy than making paper from trees.



## 7. Inspire Others to make a Difference

By motivating two friends to follow these simple guidelines on how to make a global difference, you will triple your efforts. We only have one earth, respect it.



### Sources:

1: Global and Regional Air and Energy Program, Environmental Defense; Environmental Systems of America, Inc; 2: Global and Regional Air and Energy Program, Environmental Defense; McLennan County Electrical Cooperative Inc; 3: Pimentel DL, Westra L, Noss RF, eds. Ecological Integrity: Integrating Environment, Conservation, and Health, 2000; State of the World 2001, World watch Institute; 4: www.newdream.org; USGS Water Resources Outreach Program; 5 www.newdream.org; Audubon's Living Oceans Seafood Lover's Guide; 6; Ca. Dept. of Conservation, 1995; Center for Ecological Technology

Text and Design: Daisy Englert delea\_2000@yahoo.com

# Your Involvement in University Sustainability

- Establish a network of communication between diverse groups.
- Foster consistent and collaborative community action towards sustainability.
- Coordinate educational programs to promote awareness.

# Student-Led UI Sustainability Center: Completing the Context for Leadership & Entrepreneurial Education

Proposers: More than \_\_ student leaders from government, clubs, and colleges

- Common ground for university-wide collaboration
- Hands-on education on projects that promote both savings and sustainability
- Provides a nexus for people, programs and ideas to come together and produce results
- Puts student activity fees to work for current and future learning and leadership benefits