Summative Evaluation

Water: H2O = Life

at the American Museum of Natural History

report prepared by: People, Places & Design Research
Summative Evaluation of the Exhibition

*Water: H2O = Life*

at the American Museum of Natural History

Executive Summary . . . . . . . . . . . . . . . 1

A. Expectations, Knowledge & Interest in Water . . . . . . 4
   1. Expectations about a water exhibition
   2. Knowledge of water issues before seeing the exhibition
   3. What interests visitors about the topic?

B. Perception of Interpretive Messages . . . . . . . . . . . 10
   1. Overall perceptions of interpretive themes
   2. What was most interesting to people?

C. Impact of Seeing the Exhibition . . . . . . . . . . . .18
   1. Interest in water issues before and after seeing the exhibition
   2. Possible outcomes
   3. Changes in awareness of water issues related to global warming

D. Perceptions about Climate Change . . . . . . . . . . . 25
   1. Interest in seeing an exhibition about climate change (before vs. after)
   2. Degree of concern about climate change
   3. What do people want to know about climate change?
   4. Interest in programs related to the climate change exhibition

E. Characteristics of the Samples . . . . . . . . . . . . . . 31

prepared by
People, Places & Design Research
Northampton, Massachusetts

June, 2008
Executive Summary

This visitor research was commissioned by the American Museum of Natural History (AMNH) to explore visitors’ perceptions about the exhibition, “Water: H2O = Life” – which was installed from November 2007 through May 2008. The primary focus was on general public visitors; a related activity involved assessing the perceptions of elementary students visiting with school groups, which is not part of this report.

Goals for this evaluation

Although the main emphasis was on evaluating the Water exhibition, AMNH also sought to use this opportunity to explore visitors’ perceptions that might be relevant to the upcoming Climate Change exhibition. These four goals guided the development of the research strategy, specific interview questions, the analysis of data, and the structure of this report:

♦ assess whether visitors are getting something (whether learning, enjoyment, personal motivation) from this exhibition;
♦ find out whether visitors are associating water-related issues that they see in this exhibition with climate change/global warming (including whether they entered the exhibition with a sense of those connections, and whether the exhibition changed their perceptions);
♦ explore visitors’ interest in seeing a climate change exhibition; and
♦ explore visitors’ interest in educational programs that could be created in conjunction with a climate change exhibition.

Methods used for this evaluation

Three research methods were developed to investigate visitors’ experiences in the Water exhibition; two methods were developed for general visitors and one for children in school groups:

1. Entrance interviews were conducted with a random sample of ‘general public’ adult visitors as they were entering the exhibition (in family groups or adult-only groups, 1 adult per visitor group, n = 167; of these, 152 had not seen the exhibition before and were the basis for analysis of data from this method)
2. Exit interviews were conducted with a separate random sample of ‘general public’ adult visitors as they were leaving the exhibition (in family groups or adult-only groups, 1 adult per visitor group, n = 316);
3. End-of-visit questionnaires were distributed to teachers and students in elementary school groups (n = 25 teachers, 320 students; two levels of classes were studied: 3rd-4th grade, and 6th grade); analysis of the data from these questionnaires is being conducted separately by AMNH staff.

In this collaboration, the research strategy and research instruments were developed by People, Places & Design Research (PPDR); the data collection for all methods was conducted by AMNH staff and intern, with training and monitoring of the quality of work by PPDR.
Visitor sample characteristics
The random sample of people contacted entering or leaving this exhibition may or may not be representative of AMNH’s total audience, but it was sufficiently diverse for in-depth analysis on this project – containing substantial numbers of first-time visitors to the Museum as well as repeat visitors, New York City and tri-state residents as well as US domestic visitors and foreign visitors, about half the sample who belong to any kind of environmental organization (and half the sample who do not), a wide range of ages of adults, family visitors as well as adults visiting without children, and relatively equal proportions of men and women interviewed in the Exit Interviews (somewhat more women in the Entrance Interviews). In addition, the sample contained people who began with relatively low or moderate interest in the subject of water as well as people with high interest, and people with no expectations about what they would see in this exhibition as well as people who had specific interests or curiosities.

Overall, the sample composition is considered to be excellent for an evaluation of this type, including the high degree of similarity between the characteristics of the Entrance Interview sample and the Exit Interview sample: on 5 of 6 characteristics, the samples were statistically similar, and only on gender was there a minor difference (not statistically significant), which showed in the detailed analysis of results to make no difference in visitors’ perceptions of the exhibition.

Highlights of the Findings
This research produced results about visitors’ experience of the Water exhibition (the first list of findings) as well as results that may be of interest for the climate change exhibition (the second list).

◆ Expectations are an important context for visitor experiences; for example, if people come expecting to see something specific and they don’t see it, their experience is affected. Visitors to Water tended to have vague expectations: almost half could articulate no expectations, one-fifth only mentioned the title, and one-fifth expected to see something about conservation issues. Almost half expressed no specific interests regarding the exhibition; the other half indicated a variety of curiosities.

◆ Visitors entered the exhibition thinking that they already knew about many water-related topics. At least two-thirds claimed high familiarity with household water use, the water cycle, issues about quality of drinking water, hurricanes, polar bears, and coral reefs. About half claimed high familiarity with water supply for cities, droughts in Africa, and barrier islands.

◆ All visitors (99%) could articulate some main idea that they got from seeing this exhibition. The primary message was conservation, expressed in a variety of ways: how to save water, the importance of water, its scarcity, protecting the
supply of water – in one way or another, 85% of the visitors interviewed mentioned something about conservation.

- Although conservation was the main message perceived, visitor experiences and learning were quite wide ranging, suggesting that this was a “multiple entry, multiple exit” type of experience (people came in at different levels of interest and knowledge and they all got something out of it), rather than one where all visitors had the same experience of, for example, getting three primary messages.

- This exhibition made people think about their everyday lives and the future. Although half (51%) said they already do things to help with water conservation, more people (72%) said they realized they could do more. Being worried about the future (65%) may be a good stimulus for people to act, although some people (22%) saw things in the exhibition that made them hopeful about the future too.

- Experiencing this exhibition expanded people’s views of global water issues – increasing interest in global issues among some people (especially those who are not already environmentally ‘active’), giving some people a different understanding of life in developing countries, and helping some people see more connections between water and global warming.

Findings pertaining to the upcoming climate change exhibition:

- During the development and testing of questions for the research instruments, it was clear that the term ‘climate change’ does not have as much resonance with people as the term ‘global warming.’ Therefore, we chose to use both terms to refer to the topic; answers are indistinguishable on these terms.

- Visitors left this exhibition with almost exactly the same perceptions as when they entered regarding which water-related issues are important in climate change: polar bears, droughts in Africa, and hurricanes.

- Interest in a climate change exhibition is good, and was unchanged by seeing the Water exhibition (~ half expressed high interest, one-fourth expressed medium interest, and one-fourth expressed low interest).

- Visitors’ interest in climate change focuses on what can be done about it: ‘alternative energy sources & future technology’ was most interesting (62% high interest), along with ‘what we can do to reduce our impact’ (54%). Interest is significantly greater among people who are environmentally active.

- All educational programs are likely to attract some audiences; the type of audience varies by program. The most widely appealing educational program formats were: online information from the exhibit’s web site (49% high interest), family-friendly hands-on conservation programs (44%), and debates on solutions and resource management issues (38%).
A. Expectations & Interest in the Topic of Water

A useful context for interpreting audience reactions to the exhibition is the question, “where are visitors starting from?” This section explores the visitors’ initial perceptions about the topic of water, before seeing the exhibition. Key findings are:

- Many visitors entering the exhibition (42%) could not articulate any expectations of what they might see or ideas of what it’s about, other than “water.” However, some people (21%) got the idea (from the title) that it would show the importance of water to life, and some people (19%) expected something about conservation.

- At least two-thirds of visitors (66%-79%) felt that they already knew about most of the water issues presented in a list of nine items: household use, water cycle, quality of drinking water, hurricanes, polar bears, and coral reefs.

- Almost half of the visitors entering this exhibition (43%) could not articulate any specific interests or anything they would like to find out about water. It’s such a broad subject, and perceived as mundane, that people had difficulty beginning a conversation about it.
A.1. Expectations about a water exhibition

OVERVIEW: Many visitors (42%) had no expectations about the water exhibit, and couldn’t guess what it might be about, aside from “water.” About one-fifth of the visitors guessed (from the title) that the exhibit would show the importance of water to life. Another one-fifth expected that conservation issues would be a part of the exhibit.

What have you heard about the Water exhibit – what’s going to be the main idea? (or what would you guess is the main idea? / or what would you expect to see?)

24% water
21% importance of water to life, water equals life
19% conservation issues
5% basic info: water cycle, distribution
5% heard it was a good exhibit, heard there was hands-on
5% animal life in water
3% problems with water, pollution, water quality
2% how water impacts us, the planet
1% global warming
5% other answers
18% no idea, don’t know, no expectations

Sample of answers (besides “water” and “don’t know”)

Water and it's impact on the planet
Something new and unusual, some history and future
Saw on Steven Colbert about the exhibit
Water, live animals
Underwater animals
Sea life and everything related to water
Water on earth, what's happening, problems
Water/global warming
Heard there is hands on stuff
Heard it was very good, but no real info.
Where does water come from
Circle of water, cycle with weather, etc. And ocean evaporation
Water conservation
Water and the environment
Trying to make water less polluted
Scarcity of water globally
Planet survival/pollution of the earth
Environment
Ecology and science, recycling of water
Conservation and where water comes from, limited supply, etc.
Conservation
A message that we need to conserve water

Research Report by People, Places & Design Research
Related to origins of life, preservation, ways to conserve water
Hadn't heard, conservation and getting water where people need it
Connect people with water, where it comes from, how important and need to conserve
Don't know, conservation, everything is 90% water
Preciousness of water
Why water is important
Water, we can't live without it
Water equals life
Importance of water
How water relates to our lives as humans
How it is important to life, water
How fundamental water is to life on earth
Searching for water on other planets or how it gives life on our planet
Heard it was really interesting, we will learn about how water necessary for life
Saw some articles, interesting and pretty, everything you want to know
A.2. Knowledge of water issues before seeing the exhibition

OVERVIEW: Most people who are coming to this exhibit for the first time feel that they are already knowledgeable about many of the nine topics presented to them. The four topics that people felt the most knowledgeable about were: household water use, the water cycle, the quality of drinking water, and hurricanes (74-79% of visitors said they could state two facts about these subjects). The three least familiar topics were: water supply, droughts in Africa, and barrier islands (42-55% of visitors said they knew something about these). There was only one statistically significant difference based on people’s orientation toward the environment: those who are environmentally active believed they were more knowledgeable about droughts in Africa compared to those who are sympathetic but not active on environmental issues.

Which of these water issues do you already know something about?

<table>
<thead>
<tr>
<th>Water Issue</th>
<th>Overall</th>
<th>Active</th>
<th>Sympathetic</th>
</tr>
</thead>
<tbody>
<tr>
<td>household water use</td>
<td>79%</td>
<td>83%</td>
<td>75%</td>
</tr>
<tr>
<td>water cycle (evaporation, condensation, etc.)</td>
<td>78%</td>
<td>83%</td>
<td>75%</td>
</tr>
<tr>
<td>the quality of drinking water</td>
<td>76%</td>
<td>78%</td>
<td>75%</td>
</tr>
<tr>
<td>hurricanes</td>
<td>74%</td>
<td>78%</td>
<td>70%</td>
</tr>
<tr>
<td>polar bears</td>
<td>68%</td>
<td>73%</td>
<td>66%</td>
</tr>
<tr>
<td>coral reefs</td>
<td>66%</td>
<td>67%</td>
<td>68%</td>
</tr>
<tr>
<td>water supply for cities, reservoirs</td>
<td>55%</td>
<td>59%</td>
<td>53%</td>
</tr>
<tr>
<td>droughts in Africa</td>
<td>53%</td>
<td>64%</td>
<td>** 45%</td>
</tr>
<tr>
<td>barrier islands</td>
<td>42%</td>
<td>44%</td>
<td>44%</td>
</tr>
</tbody>
</table>

** Asterisks indicate statistically significant differences (p<.05) between sets of figures. For example on this page, there is a substantial difference in the proportion of ‘active’ visitors who know about droughts in Africa, compared to those who are ‘sympathetic but not active.’ The figures should be read as percents of the column heading, e.g., 64% of ‘active’ visitors know about droughts in Africa.

(++) are used in this report to indicate patterns of differences which are not quite statistically significant (milder differences, which may have occurred by chance), but which suggest a trend and may have some intuitive value in some circumstances.

---

1 Visitors were asked to characterize their own relationship to environmental issues, given the choices of 1) very interested and active in environmental concerns; 2) sympathetic to environmental issues but not active; 3) somewhat interested; or 4) not very interested in environmental issues. The results for the sample of entering visitors who were seeing the exhibit for the first time were: 43% ‘active,’ 48% ‘sympathetic,’ and 9% ‘somewhat’ or ‘not interested’ (only 14 people, not enough to include in the analysis above). This proportion of ‘active’ visitors is the highest figure we’ve seen across numerous studies of zoo and aquarium audiences.
A.3. What interests visitors about this topic?

OVERVIEW: Many visitors (43%) couldn’t articulate anything that they wanted to find out about water (indicating that it’s perceived by some people as a mundane topic, and people think they already know about it, and there isn’t much curiosity). Among those who did express some curiosity, the responses were varied and included: the water cycle, water conservation, the status of water supplies, marine life, and the quality of drinking water.

Is there something you would like to know about water - any special interest?

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Specific Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>10%</td>
<td>everything, learn more about it</td>
</tr>
<tr>
<td>7%</td>
<td>basic info: water cycle, molecular structure</td>
</tr>
<tr>
<td>7%</td>
<td>how to conserve water</td>
</tr>
<tr>
<td>6%</td>
<td>status of water, scarcity, future ramifications</td>
</tr>
<tr>
<td>5%</td>
<td>animal life in water, especially oceans</td>
</tr>
<tr>
<td>5%</td>
<td>quality of drinking water, distribution, where it comes from</td>
</tr>
<tr>
<td>4%</td>
<td>global warming, rising sea levels</td>
</tr>
<tr>
<td>4%</td>
<td>technology, hydropower, desalinization</td>
</tr>
<tr>
<td>3%</td>
<td>ocean phenomena, e.g., tsunamis, volcanoes</td>
</tr>
<tr>
<td>2%</td>
<td>how to stop polluting water</td>
</tr>
<tr>
<td>8%</td>
<td>other answers</td>
</tr>
<tr>
<td>43%</td>
<td>no, nothing [similar proportion among ‘active’ and ‘sympathetic’]</td>
</tr>
</tbody>
</table>

Sample of answers

- How dirty the water is, how scarce water is
- Future implications of dwindling water supplies
- Water in the future
- Conservation, global warming
- Ecological issues
- How to conserve water
- How to protect/care for water
- Environmentally, rising water level
- Everything
- Everything
- General curiosity about all things related to water
- Teaching ecology in school/teacher so to expand knowledge
- Deep sea stuff where no light gets through how we keep our water supply
- Learning about different types of animals
- What's in water, microscopic life
- General info.
- Molecules and water
- What else besides drinking, what else is water about
- Bottled water issues, transportation, etc.
- Population issues, safe water supply for people
- How petroleum oil formed at bottom of seas

Research Report by People, Places & Design Research
Tsunami
Diversity of water
Hands on stuff, I am a scientist
How it helps us survive in life, how essential water is
The ways it moves, to see it in general
Desalinization
Energy and water
Hydrology, wells
B. Perception of Interpretive Messages

This section of the report looks at visitors’ perceptions of the interpretive messages after seeing the exhibition. Also, what exhibits and types of information were most interesting to visitors? Some highlights of the findings are:

- The vast majority of visitors (85%) got some kind of conservation-related message from this exhibition, primarily about the importance of conserving water.

- Virtually all visitors recalled some specific messages from the exhibition. Some of the more frequently mentioned ideas include: how to save water, that only 1% of the earth’s water is available as fresh water, and the global problems & comparisons.

- When asked what was most interesting, some people referred to specific exhibits or media (Science on a Sphere, interactives, animals, videos, fog entrance), while others referred to information that may have been surprising – the negative impact of dams, how little fresh water is available for use, global comparisons, and how much water is used for agriculture.
B.1. Overall perceptions of interpretive themes

OVERVIEW: One interpretive theme stood out clearly to most visitors – 63% thought the main idea was conservation and how to save water. Most of the other answers also reflected the theme of conservation in different words: the importance of water to life, raising awareness about the fragility of water resources, sources of water pollution, and environmental problems in general.

Thinking about all of what you saw, what’s the main idea?

- 63% water conservation, how to save water
- 16% importance of water, precious resource
- 15% water, general education, how we use water
- 12% raise awareness about scarcity of water
- 4% environmental issues, problems
- 3% water pollution, how to protect supply
- 3% other answers
- 1% don’t know, no answer

Overall, 85% gave conservation-related answers.

Sample of answers
Teaches kids about how much of an impact water has on entire planet/conservation
Conservation
Propaganda, green & good for young kids
Water, ecological issues
Aware of water
Not to waste water
Hard to say
Increase awareness of how we use the planet resources.
Water conservation; impact on planet, dependency
Conserving water
Water conservation
Conservation
Source utilization conservation, contamination/pollution
Concern about damage with pollution and possibility of world without water
Realizing we have to save water
To conserve water
How we are using up our water resources, urgency and need to make changes
Need to conserve water
About saving water/importance of water
Understanding water's place on earth and how humans impact and what we can do
Waste and conservation
Educational especially for children
Conserving water
Water, history, how we use it, more clean water
Filtration, rivers

Research Report by People, Places & Design Research
Conserve water
Importance of conservation and protection of water
Role of water in nature and human life
Saving water
Safeguarding water supplies
Safeguarding water supplies
Try to save water
Water and its relation to humans
Conservation
Preservation of water
Water
How water - hard to say, so many aspects - glaciers
To save water for future
A lot of things
Understanding nature, history, conservation, future global trends, human interaction with water
Multitude, uses and manifestations of water
Different functions of water and the useful applications where it comes from phases of water
Conservation of water
Water conservation, waste water
I don't know, unfortunately it's the end of the day and we are very tired
Importance of water
Conservation of water
Awareness of water globally
Conserving/valuing water
Conservation
Prevention
Water conservation
The conservation of water and future use
Conservation of water
Conservation of water, how much we waste
Water
Understanding and protecting fresh water resources
Fragility of water as source of life, human consumption, warning and solutions
That water is renewable but limited
Preciousness of water
Conserve water
Conservation
How precious water is as a resource
Interpretive themes (continued)

OVERVIEW: The most salient content was “how to conserve water,” followed by the information that less than 1% of the water on the planet is useable fresh water (SOS program) and that there are global inequalities in availability of fresh water.

What are the top 2 things that people are likely to find out from seeing this exhibit?

32% how to save water, personal impact
20% how little fresh water is available, <1%
17% global situations, inequalities, problems in other countries
12% awareness of issues, scarcity, potential future problems
12% importance of water, precious resource
5% pollution, contamination issues
5% impacts on wetlands, wildlife
4% desalinization issues
4% bottled water issues
4% basic info: water cycle, forms of water
3% negative impact of dams
2% local NYC issues
1% global warming issues, glaciers
6% general positive – it was educational, entertaining
8% other
6% don’t know, blank

Sample of answers

We're in a lot of trouble; we need to be doing what we can; we should be demanding of our political figures
Impact of humans on the world, explained in clear way; desalinization
Small % of fresh water; damage because of dams
Knowledge of actual amount of fresh water; desalinization is not an option
Water is disappearing, go to see the exhibit; how to save money
Importance of preserving water we have; understanding how scarce it is to so many other people
Conservation; three phases of water
How much water they go through a day; ways you can make changes to reduce footprint
Come to see how it's set up; good for kids
3% of drinkable water; most is in icebergs, Mono Lake
How scarce water is; importance of considering all environmental issues, holistic approach
They are likely to have a deeper level of concern; much greater appreciation for adaptations to need for wa
Scientific material in a way that’s understandable, good visualization of topic with lots of numbers
Bottled water; conserving water; friends in CA, overuse of water there
How much work women in undeveloped areas do to transport water; why I bug my house guests to conserve
Water safety; preservation
How little water is fresh; 1/3 is accessible
The way water is used, ways to conserve it
Info on conserving water; info on water usage
How much water we have to save; some countries don't have too much water
To learn about water conservation, my sister wastes too much water
How precious fresh water is; how every iota of life depends on it
We're in bad shape
Sewage system in NYC is much better than I thought, contamination; 1% fresh usable water
Pollution in water; emphasis on conserving water, we take it for granted
Amount, little fresh water available; desalinization not feasible because of cost
Water comes in many forms, innovative ways to use it; interactive quiz at the end
Conservation; world-wide water issues
Global aspect of issues; scarcity of fresh water
Effects of water on our life; how much we take water for granted
Importance of water; easy to take for granted how easy it is to get clean water
How to conserve water at home; why it is important to conserve water
How precious a commodity our fresh water is not limitless; desalinization is so expensive; would like to have
How much water we can use, 1%
How water works; how to conserve water
Cause and effect of our behavior; education system isn't doing enough in terms of these issues; should be in
Scarcity of water; how we use water; why you can't filter out salt
How to save water; how important it is for earth
Bush administration has been suppressing the issue; so much that people don't know
How to save water; invasive species problem
Little bit of water in world; we waste a lot of water
How vital water is; it will be a major problem - population growth.
Global situation; limited supply
How wasteful Americans are with water; preserving wetlands
How they can save water; how to be more conscious of importance of water
How to save water in your house; how different countries conserve water
About how water conservation helps people, water and how it's used
How much water they are wasting; how conservation can benefit them and globally
How little fresh water we have; people in west - it is important to conserve water
How to recycle water; how the earth's water is, fresh
Pay attention to wasting water; places without water
Try to save water; only 1% of water is usable
B.2. What was most interesting to people?

OVERVIEW: Visitors named an extensive variety of specific exhibits and informational content when asked what was most interesting. People enjoyed the mix of types of experiences: the interactives, animals, videos, and special effects (e.g., entrance fog screen). Science on a Sphere was also a highlight in this exhibit, and the message people got from it – how little fresh water there is on the planet – was a memorable piece of information. Other content of interest was about the negative impacts of dams, the global comparisons, and how much water is used in agriculture (e.g., to grow rice, make a t-shirt, etc.).

Tell me two things that you thought were most interesting in this exhibit:

Types of exhibitry:
20% interactives, hands-on
15% live and stuffed animals (polar bear, mudskippers), info about animals
11% videos, film
  8% water wall, vapor cloud, fog screen at beginning
  4% photos, diagrams, visuals

Messages:
17% impact of dams, info about Three Gorges Dam
15% how little fresh water is available for use (<1%)
12% global aspects, comparisons, inequalities
10% how much water is used, especially for agriculture
  7% ways to conserve, solutions
  5% historical, religious, cultural use of water, how people transport water
  4% water cycle, groundwater
  3% local NY city information, epilogue, where our water comes from
  3% threats to water quality, pollution
  2% global warming effects, iceberg melt, coral

Specific exhibits or content:
19% Science on a Sphere, globe video
  5% Mono Lake
  4% computer game, the quiz at end
  4% turbines in East River
  3% bottled water exhibit
  3% what’s in a drop of water, cholera, microscope
  2% invasive species
  2% 3 states of water
  2% desalinization
  2% 3-D exercise, water level in Tucson
  1% A Single Drop (at beginning)
  1% rock canyon

  3% everything, how it was presented, well done
  12% other answers
  4% blank, nothing

Research Report by People, Places & Design Research
Sample of answers

Mono Lake thing; globe/world

Facts and data; how people live in restricted water areas

Dams, the number they build per day; mountain of plastic water bottles, CDs degrade slowly

Comparison of water use by countries; sphere and comparison of salt/freshwater available

Displays; videos, explanations of things

Conservation; sacrifices of so many

Percent of water that is usable of % all water; critical problem in so many places and its not clear what can be done about it

Quiz is really helpful for everyone; basic knowledge about how water is hydrogen and oxygen; how people can use fresh water

Effect it has on different ecosystems; waste of water

Very little fresh water; all good ideas of what you can do around the house

Distance people have to carry water in other countries; mud fish

Single drop; different containers for water

Well, drawing water; fog screen- kids liked

Scarcity of water; things you can do to conserve; exhibits that show these things

Mudskippers, movies

Fishes; biggest river, tidal zones

Videos; computers w/ info about where NY gets water

Ways of using water, fog nets in Peru; Perth is desalinizing water from ocean, different cities and how they get fresh water

Entrance: globe points out areas where there is no water, the whole thing

Comparison of water usage; stations relating to ecology of water

Ocean, videos; ancient use of water (Mexican)

Invasions of ecosystems; amount of damming in the world

Amount of available fresh water; finding better ways of water transport

Statistics on how little water there is; we went through quickly

Hands on things; honestly it wasn't an interesting exhibit, too much reading for kids

The way dams have created and destroyed environments, blue planet visual w/ amount of fresh water

The globe (SOS); the pipes, different ways water is used, different countries

Information about how animals adapt to water; daring taking social question of equity in presenting water info

Dam, sediment accumulation; globe video

Dams info; educating people to live differently and every day life choices

Blue planet; West Coast being introduced

Films; personal connection with snake head

Adaptation of the animals; models where you can touch

Three Gorges dam in China; awareness of availability of water and global situation

No, disappointed in whole thing

House interactive quiz; globe video

Mee Kong River; beginning of exhibit

Globe Science on a Sphere; frozen, liquid, phases of water

Quizzes on computer; animated globe

Dams; water carriers

Speed at which humans are building dams.

Desalinization

T-shirts take so much water

Globe video; polar bear

Projects at the end (local projects); infectious disease
How many cultures use water in different ways; for many cultures it is hard to get water
Movie on planet; hands on things (scales, etc.)
Chemistry; diagrams are good showing, >1% visually, good
Information; learned a lot about water in other parts of world
Tap water vs. bottled water; conservation connection for aquatic life
Projection on earth <1% water; 3d image of Tucson under water - evolution
How little fresh water we have; realize how abundant we have when lots of world has shortage
Hands on, 3d glasses, live animals
Three phases of water (ice, gas, liquid); dam interactive
Documentary film; percent of water used in industry/agriculture
C. Impact of Seeing the Exhibition

Some potential impacts were assessed by comparing visitors’ interest in and awareness of global water issues before vs. after seeing the exhibition. Others focused on to what extent are people coming away with a sense of urgency? Are they concerned and motivated to do more to save water? The key findings are:

- Visitors indicated that their interest in global water issues increased significantly as a result of seeing this exhibit (35% vs. 52% high interest; based on self-ratings of before vs. after by exiting visitors).

- The top two reactions selected by a majority of visitors were: ‘realizing I could do more to help with water conservation’ and ‘more worried about the future.’ People were able to cite some specific things that they could do to save water.

- There was no change in visitors’ perceptions of which water issues are related to global warming when comparing the entrance vs. the exit samples. People think that polar bears, droughts and hurricanes are related to climate change, while they are less likely to see connections with barrier islands or the quality of drinking water.
C.1. Interest in water issues after seeing the exhibit

OVERVIEW: After seeing the exhibit, people indicated that their interest in global water issues had increased (from a modest 35% who rated themselves as having high interest ‘before’ to 52% who rated themselves as having high interest ‘after’). ‘Active’ environmental supporters rated their interest higher, both before and after, compared to the ‘sympathetic but not active’ people. Changes in ratings were most dramatic among the ‘sympathetic’. Interest was not related to any other demographic characteristics such as residence, gender or familiarity with the museum.

How would you rate your interest in global water issues on a scale of 1 to 10?

<table>
<thead>
<tr>
<th></th>
<th>Before</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td>high (9,10)</td>
<td>35%</td>
<td><strong>52%</strong></td>
</tr>
<tr>
<td>moderate (7,8)</td>
<td>30%</td>
<td>36%</td>
</tr>
<tr>
<td>low (1-6)</td>
<td>35%</td>
<td>12%</td>
</tr>
</tbody>
</table>

Percent who changed their rating:
- no change, already high: 30%
- no change, medium/low: 18%
- increased by 1-2 points: 35%
- increased by 3+ points: 16%

Change in interest among ‘active’ environmental supporters (34% of audience)

Change in interest among ‘sympathetic’ but not active (61% of audience)
C.2. Possible Outcomes

OVERVIEW: When visitors were given a list of seven potential reactions after seeing this exhibit, the two most selected were: ‘realizing I could do more to help with water conservation’ (72%) and ‘more worried about the future’ (65%). These findings suggest that people got the intended messages. There were no significant differences between people who consider themselves ‘active’ vs. ‘sympathetic’ toward environmental issues. It is interesting to see that even though half of the visitors said they are already doing some things to help with water conservation, they still realize there is more that can be done.

Follow-up questions (presented on the next three pages) show that among those who are already doing things to help, the most frequently mentioned actions are: not using bottled water, not leaving the water on when brushing teeth, taking shorter showers, and watering lawns and gardens less. These four ideas were also mentioned most often by those who realized they could do more to help.

People who said they felt hopeful about the future were asked to explain. They expressed optimism primarily because of the examples in the exhibit of things people can do to help (and the case studies of people already doing something), and because they believe people can be educated by exhibits such as this.

Which phrases describe what you might be thinking about water a week from now?
(pick up to 3 answers)

<table>
<thead>
<tr>
<th></th>
<th>Overall</th>
<th>Attitude toward environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Realizing I could do more to help with water conservation</td>
<td>72%</td>
<td>Active 82% Sympathetic 70%</td>
</tr>
<tr>
<td>More worried about the future</td>
<td>65%</td>
<td>61% 68%</td>
</tr>
<tr>
<td>Realizing I already do things to help with water conservation</td>
<td>51%</td>
<td>59% 45%</td>
</tr>
<tr>
<td>I’ll remember that it’s all connected to global warming</td>
<td>48%</td>
<td>45% 49%</td>
</tr>
<tr>
<td>I’ll have a different understanding of life in developing countries</td>
<td>41%</td>
<td>41% 42%</td>
</tr>
<tr>
<td>Hopeful about the future</td>
<td>22%</td>
<td>23% 23%</td>
</tr>
<tr>
<td>There’s so much information, I might forget the details</td>
<td>18%</td>
<td>14% 21%</td>
</tr>
</tbody>
</table>
In what sense do you realize you already do things to help with conservation?
(Percents are based on the 43 people who were asked this follow-up question, not the whole sample)

28% we do household things mentioned in exhibit (no specifics)
26% we don’t buy bottled water
21% we don’t leave water on when brushing teeth or shaving
19% we take shorter showers
18% we use gardening, lawn and landscaping techniques to save water
  9% we only run dishwasher with full loads
  9% we use low water toilets, flush less
  7% the exhibit gave me some more ideas of things I can do
  5% we have rain barrels to collect water
  5% we use low water shower heads
  7% other answers

Sample of answers
We do most of what we saw in last area
All the toilet systems use only three liters
Shorter showers, conserve water
Fix leaks, use low water shower heads, use tap water not bottled
At home, dripping faucets, watering lawn
Don't buy bottled water; flushing toilet/using water/food
Household, don't water lawn, try to reduce dishwasher use, showers
I shut off water brushing teeth, take quick showers
Little things, run washers when load full; grass watering, no bottled water
In house I try to be careful with dishwasher, reusable water bottles
In house
And will do more now that I know how to trap rain water, bottled water
Don't drink bottled water, three minutes in shower
Conscious of the way I landscape my home, kitchen and bathroom
More aware of things I can do
Grew up conserving water
Take quick showers
Particular about how I landscape, no exotic plants
Brushing teeth, shavers
Low flow shower heads
Bottled water, household things
Try not to run water when I don't need it
In household, wash only full machines
In what sense do you realize you could do more to help with water conservation?
(Percents are based on the 95 people who were asked this follow-up question, not the entire sample)

- 22% I will try harder to be more conscious
- 17% household things that were mentioned in exhibit (no specifics)
- 16% don’t buy bottled water, get reusable containers
- 13% don’t leave water on when brushing teeth or shaving
- 12% take shorter showers
- 12% gardening, lawn and landscaping ideas to save water
- 6% rain barrels to collect water
- 5% only run dishwasher with full loads
- 4% use low water shower heads
- 2% fix leaky faucets
- 2% use low water toilets, flush less
- 14% other answers
- 3% blank, no answer

Sample of answers

There are things I neglect and I will try to do better
To be more conscious
Not wasting so much
Saving it, keep it clean
Not running water at unnecessary times
I always realize but I don’t do anything
Washing with dishwasher is better than sink; no pre-rinsing; no bottled water
Careful w/ bottled water, grow plants acclimated to less rainfall, vote
Be more conscious during daily chores
We try already to do a lot, buy low flow shower head, water bottles
Rain water barrels
I should be more earth friendly, use less
Basic things, low flow toilets, shower heads, lawns
Creating awareness
Use it wisely
Every day things, brushing teeth, rain barrels
Run the water when I do dishes - I could stop that, etc.
Buying less bottled water etc. Showers
Make sure kids turn off faucet
Landscaping
No drinking bottled water everyday

Research Report by People, Places & Design Research
In what sense are you hopeful about the future?
(Percents are based on the 54 people who were asked this follow-up question, not the entire sample)

43% there are things we can do, people are conserving
31% people are becoming more aware, educating people
 9% we have the technology and the science to solve problems
 6% we have plenty of water, we won’t run out
 6% we can band together, political change can happen
13% other answers (“I’m just an optimist”)

Sample of answers
I'm an optimist, no problems humans can't solve with conservation technology
People start to realize that we can't waste it
People will do things better for the environment.
Drinking water, moving to desalinization, waste water treatment
That there is water left for us
It seems there are ways we can make changes
Household use
There are projects people are doing to make a difference
We are starting to do things to reduce our impact
I think more people come in contact with explanations
A lot of knowledge about things that can be done to change get together
That we're trying to educate on conservation
Because my job will make clean drinking water
Awareness
More possible strategies, more of human face to the issue of water
That people will become more knowledgeable
To get government globally interested
There are processes they have and there is understanding and political
Future generations and ours
We have scientists working on these things
That this will educate people and raise awareness
I think we're finding out what we can do about it
Hopefully people will get the message
There is enough water for me
There are a few things I didn't know were being done that are being done
Don't think we'll run out of water anytime soon
Wetlands work going on to help, just this exhibit shows increase in sensitivity
C.3. Changes in awareness of water issues related to global warming

OVERVIEW: The three issues that people were most likely to perceive as related to global warming prior to seeing the Water exhibition were polar bears, droughts in Africa, and hurricanes. After seeing the exhibit, visitors’ perceptions were about the same, with the exception of an increase for ‘household water use.’

Which of these are clearly related to global warming and climate change? (pick 3-4)

<table>
<thead>
<tr>
<th>Issue</th>
<th>Entrance</th>
<th>Exit</th>
</tr>
</thead>
<tbody>
<tr>
<td>polar bears</td>
<td>63%</td>
<td>60%</td>
</tr>
<tr>
<td>droughts in Africa</td>
<td>55%</td>
<td>57%</td>
</tr>
<tr>
<td>hurricanes</td>
<td>51%</td>
<td>46%</td>
</tr>
<tr>
<td>water cycle (evaporation, condensation, etc.)</td>
<td>38%</td>
<td>36%</td>
</tr>
<tr>
<td>coral reefs</td>
<td>38%</td>
<td>44%</td>
</tr>
<tr>
<td>water supply for cities, reservoirs</td>
<td>32%</td>
<td>32%</td>
</tr>
<tr>
<td>household water use</td>
<td>26% **</td>
<td>36% ↑</td>
</tr>
<tr>
<td>barrier islands</td>
<td>22%</td>
<td>21%</td>
</tr>
<tr>
<td>the quality of drinking water</td>
<td>19%</td>
<td>24%</td>
</tr>
</tbody>
</table>

Analyzed by environmental orientation:

<table>
<thead>
<tr>
<th>Issue</th>
<th>Active</th>
<th>Sympathetic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ent</td>
<td>Exit</td>
</tr>
<tr>
<td>polar bears</td>
<td>67%</td>
<td>65%</td>
</tr>
<tr>
<td>droughts in Africa</td>
<td>52% ++</td>
<td>65%</td>
</tr>
<tr>
<td>hurricanes</td>
<td>44%</td>
<td>49%</td>
</tr>
<tr>
<td>water cycle (evaporation, condensation, etc.)</td>
<td>42%</td>
<td>36%</td>
</tr>
<tr>
<td>coral reefs</td>
<td>44%</td>
<td>51%</td>
</tr>
<tr>
<td>water supply for cities, reservoirs</td>
<td>30%</td>
<td>36%</td>
</tr>
<tr>
<td>household water use</td>
<td>30%</td>
<td>31%</td>
</tr>
<tr>
<td>barrier islands</td>
<td>23%</td>
<td>30%</td>
</tr>
<tr>
<td>the quality of drinking water</td>
<td>19%</td>
<td>17%</td>
</tr>
</tbody>
</table>

Reminder of notations about statistical significance:

** = statistically significant differences (p<.05) between columns of figures.
++ = patterns of differences which are not quite statistically significant (p<.10).
D. Perceptions of Climate Change

In addition to evaluating Water, this study sought to inform the development of educational programs for the upcoming exhibition about climate change. Some information was collected about the extent of visitors’ concern about climate change, their interest in coming to the new exhibition, and their interest in several topics and educational programs that could be associated with this exhibition. Highlights of the results are:

- Visitors expressed moderately strong interest in coming to an exhibition about climate change. The ratings were the same whether they were interviewed before or after seeing the Water exhibition.

- Half of the visitors leaving the exhibit rated their concern about global warming & climate change as ‘high’ while 20% indicated that they were not very concerned.

- Visitors expressed more interest in finding out how to reduce global warming than in learning about impacts or causes of climate change. The least important theme was ‘whether climate change is real or not’ (22% want to know this).

- The proposed educational programs elicited varying degrees of interest among different audience segments. The top three ideas were: online information, family-friendly conservation programs, and debates on resource management issues.
D.1. Interest in seeing an exhibit about climate change

OVERVIEW: Visitors expressed moderately strong interest in coming to see an exhibit about global warming – nearly half indicated they were very likely to come (a ‘9’ or ‘10’ rating). Their interest did not change as a result of seeing the Water exhibit (similar ratings among visitors entering and exiting the exhibit). Those who are ‘active’ environmental supporters expressed higher interest than ‘sympathetic but not active’ visitors. Also, repeat visitors gave higher ratings than first-time visitors (but residence was not a factor). There were no differences by age or gender.

(if you were in NY) If there were a new exhibit specifically about climate change and global warming, how likely is it that you would come see it? on a scale of 1 to 10)

<table>
<thead>
<tr>
<th></th>
<th>Entrance</th>
<th>Exit</th>
</tr>
</thead>
<tbody>
<tr>
<td>highly likely (9,10)</td>
<td>48%</td>
<td>46%</td>
</tr>
<tr>
<td>moderately likely (7,8)</td>
<td>25%</td>
<td>27%</td>
</tr>
<tr>
<td>not very likely (1-6)</td>
<td>27%</td>
<td>27%</td>
</tr>
</tbody>
</table>

Who has ‘high’ interest? (EXIT)

** 62% of ‘active’ environmental supporters (63% at Entrance)  
41% of ‘sympathetic but not active’ (37% at Entrance)

** 52% of repeat visitors  
38% of first-time visitors
D.2. Degree of concern about climate change

OVERVIEW: Visitors expressed moderately high concern about global warming – 50% indicated very high concern, while 20% are not very concerned. The ‘active’ environmental supporters are significantly more concerned than ‘sympathetic but not active’ visitors. There were no significant differences between men and women, or between people of different ages or residences.

On a scale of 1 to 10, how concerned are you about global warming and climate change?

<table>
<thead>
<tr>
<th></th>
<th>Overall</th>
<th>Active</th>
<th>Sympathetic</th>
</tr>
</thead>
<tbody>
<tr>
<td>high (9-10)</td>
<td>50%</td>
<td>74%</td>
<td>**41%</td>
</tr>
<tr>
<td>medium (7-8)</td>
<td>30%</td>
<td>17%</td>
<td>36%</td>
</tr>
<tr>
<td>low (1-6)</td>
<td>20%</td>
<td>9%</td>
<td>23%</td>
</tr>
</tbody>
</table>
D.3. What do people want to know about climate change?

OVERVIEW: Visitors are more interested in finding out how to reduce global warming than they are in the causes or effects on ecosystems. Given a list of seven topics, the top two that people want to know about are ‘alternative energy sources & future technology’ and ‘recommendations of what we can do to reduce our impact.’ Only 22% want to know ‘whether climate change is real or not,’ suggesting that most people have accepted it as fact, but there is a segment of the audience who aren’t sure. There were no significant differences by age, gender, residence, or familiarity with the museum.

Is there something that you would like to know about climate change, perhaps something on this list, or something else that’s on your mind?

<table>
<thead>
<tr>
<th>Topic</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative energy sources &amp; future technology</td>
<td>62%</td>
</tr>
<tr>
<td>Recommendations of what we can do to reduce our impact</td>
<td>54%</td>
</tr>
<tr>
<td>How humans are likely to adapt to climate change</td>
<td>45%</td>
</tr>
<tr>
<td>What are the biggest human impacts on climate?</td>
<td>44%</td>
</tr>
<tr>
<td>How climate change is already affecting ecosystems &amp; animals</td>
<td>33%</td>
</tr>
<tr>
<td>What’s causing climate change?</td>
<td>25%</td>
</tr>
<tr>
<td>Whether climate change is real or not</td>
<td>22%</td>
</tr>
<tr>
<td>something else</td>
<td>6%</td>
</tr>
</tbody>
</table>

Analyzed by Environmental Orientation:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Active</th>
<th>Sympathetic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative energy sources &amp; future technology</td>
<td>71%</td>
<td>** 58%</td>
</tr>
<tr>
<td>Recommendations of what we can do to reduce our impact</td>
<td>67%</td>
<td>** 47%</td>
</tr>
<tr>
<td>How humans are likely to adapt to climate change</td>
<td>45%</td>
<td>45%</td>
</tr>
<tr>
<td>What are the biggest human impacts on climate?</td>
<td>47%</td>
<td>44%</td>
</tr>
<tr>
<td>How climate change is already affecting ecosystems &amp; animals</td>
<td>36%</td>
<td>33%</td>
</tr>
<tr>
<td>What’s causing climate change?</td>
<td>29%</td>
<td>22%</td>
</tr>
<tr>
<td>Whether climate change is real or not</td>
<td>17%</td>
<td>24%</td>
</tr>
</tbody>
</table>
D.4. Interest in programs related to the climate change exhibition

OVERVIEW: There is likely to be some audience for all of the educational programs that could be offered in conjunction with a climate change exhibit. People expressed the most interest in two of the eight suggested programs—online information and family-friendly conservation programs. Some people are interested in debates or evening lectures. ‘Active’ environmental supporters expressed higher interest in three of the ideas, compared to ‘sympathetic but not active’ visitors – family conservation programs, organizations to join, and books. There were also some differences among first-time vs. repeat visitors, men vs. women, and local vs. non-local residents (analyses on the next page).

Would you be interested in any of these that the museum might create in conjunction with a climate change exhibit?

- Online information from the exhibit’s web site: 49%
- Family-friendly hands-on conservation programs: 44%
- Debates on solutions & resource management issues: 38%
- Evening lectures & presentations by scientists & authors: 30%
- Podcasts from the exhibit: 21%
- Advocacy organizations I could join or contribute to: 20%
- Dance or music performances about climate change: 19%
- Finding out about books that I could buy about climate change: 15%

Analyzed by Environmental Orientation:

<table>
<thead>
<tr>
<th>Program</th>
<th>Active</th>
<th>Sympathetic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online information from the exhibit’s web site</td>
<td>49%</td>
<td>51%</td>
</tr>
<tr>
<td>Family-friendly hands-on conservation programs</td>
<td>50%</td>
<td>++ 40%</td>
</tr>
<tr>
<td>Debates on solutions &amp; resource management issues</td>
<td>44%</td>
<td>36%</td>
</tr>
<tr>
<td>Evening lectures &amp; presentations by scientists &amp; authors</td>
<td>36%</td>
<td>27%</td>
</tr>
<tr>
<td>Podcasts from the exhibit</td>
<td>26%</td>
<td>19%</td>
</tr>
<tr>
<td>Advocacy organizations I could join or contribute to</td>
<td>30%</td>
<td>** 15%</td>
</tr>
<tr>
<td>Dance or music performances about climate change</td>
<td>16%</td>
<td>15%</td>
</tr>
<tr>
<td>Finding out about books that I could buy about climate change</td>
<td>21%</td>
<td>++ 13%</td>
</tr>
</tbody>
</table>

<< additional analyses on the next page >>
Who is most interested in ONLINE INFORMATION?
** 56% of first-time visitors
    44% of repeat visitors

Who is most interested in FAMILY CONSERVATION PROGRAMS?
** 49% of repeat visitors
    36% of first-time visitors

** 54% of NYC residents
    59% of other NY, NJ, CT residents
    40% of other US residents
    29% of foreign visitors

** 49% of women
    38% of men

Who is most interested in DEBATES ON SOLUTIONS?
** 44% of repeat visitors
    30% of first-time visitors

** 48% of men
    32% of women

Who is most interested in BOOKS?
** 19% of repeat visitors
    9% of first-time visitors

Who is most interested in ORGANIZATIONS TO JOIN?
** 24% of repeat visitors
    13% of first-time visitors

** 29% of NYC residents
    24% of other NY, NJ, CT residents
    18% of other US residents
    11% of foreign visitors

Who is most interested in DANCE/MUSIC PERFORMANCES?
** 26% of women
    11% of men
E. Characteristics of the Samples

Both samples (Entrance, Exit) were demographically similar, and included a good variety of types of people: first-time visitors and repeat visitors, locals and tourists, men and women, and people of all ages. It is not known how well they represent the Museum’s general public audience. It is possible that families with children are under-represented due to interviewing primarily on weekdays; however, there were still sufficient numbers of family groups to provide a reliable analysis.
Characteristics of the Samples

OVERVIEW: The main exit sample consisted of somewhat more repeat visitors to the museum (60% repeat; 40% first-time) and yet also more tourists (57%). Only one-third of the groups included children (probably not representative, may be due to a lack of weekend interviewing, or perhaps to the appeal of this exhibition). The proportion of men and women was fairly equal. The age distribution was very even – all age groups were well represented.

The Entrance and Exit samples were similar, demographically. One notable difference between the two samples was on the visitors’ orientation toward environmental issues. More people said they were ‘active’ going into the exhibit than did on the way out (43% vs. 34%). It’s possible that seeing the exhibit made people feel that they weren’t as ‘active’ as they could be. (The proportion of visitors who rated themselves as ‘active’ is substantially higher than we have seen in previous studies at aquariums and zoos).

<table>
<thead>
<tr>
<th></th>
<th>Entrance (n=152)</th>
<th>Exit (n=316)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seen Water exhibit before:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>yes</td>
<td>7%</td>
<td>n/a</td>
</tr>
<tr>
<td>no</td>
<td>93%</td>
<td></td>
</tr>
<tr>
<td>Familiarity with AMNH:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>first-time visitor</td>
<td>40%</td>
<td>40%</td>
</tr>
<tr>
<td>repeat visitor</td>
<td>60%</td>
<td>60%</td>
</tr>
<tr>
<td>Residence:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NY city</td>
<td>33%</td>
<td>28%</td>
</tr>
<tr>
<td>other NY, CT, NJ</td>
<td>18%</td>
<td>15%</td>
</tr>
<tr>
<td>other US</td>
<td>29%</td>
<td>33%</td>
</tr>
<tr>
<td>other countries</td>
<td>20%</td>
<td>24%</td>
</tr>
<tr>
<td>Group composition:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>adults-only</td>
<td>74%</td>
<td>68%</td>
</tr>
<tr>
<td>families with children</td>
<td>26%</td>
<td>32%</td>
</tr>
<tr>
<td>Gender:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>male</td>
<td>37%</td>
<td>++ 46%</td>
</tr>
<tr>
<td>female</td>
<td>63%</td>
<td>54%</td>
</tr>
<tr>
<td>Age:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20’s</td>
<td>18%</td>
<td>20%</td>
</tr>
<tr>
<td>30’s</td>
<td>25%</td>
<td>20%</td>
</tr>
<tr>
<td>40’s</td>
<td>21%</td>
<td>18%</td>
</tr>
<tr>
<td>50’s</td>
<td>22%</td>
<td>19%</td>
</tr>
<tr>
<td>60+</td>
<td>14%</td>
<td>23%</td>
</tr>
</tbody>
</table>

2 This figure comes from the original Entrance sample of 167 people; those who had already seen the exhibit were omitted from all additional analyses resulting in a sample of 152.

Research Report by People, Places & Design Research
<table>
<thead>
<tr>
<th></th>
<th>Entrance (n=152)</th>
<th>Exit (n=316)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Attitude toward environment:</strong></td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>very interested &amp; active</td>
<td>43%</td>
<td>34%</td>
</tr>
<tr>
<td>sympathetic but not active</td>
<td>48%</td>
<td>61%</td>
</tr>
<tr>
<td>somewhat or not interested</td>
<td>9%</td>
<td>5%</td>
</tr>
<tr>
<td><strong>Belong to environmental organizations:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>no</td>
<td>n/a</td>
<td>49%</td>
</tr>
<tr>
<td>yes, 1 or 2</td>
<td></td>
<td>36%</td>
</tr>
<tr>
<td>yes, 3 or more</td>
<td></td>
<td>15%</td>
</tr>
<tr>
<td><strong>Day type:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>weekdays</td>
<td>77%</td>
<td>80%</td>
</tr>
<tr>
<td>weekends</td>
<td>23%</td>
<td>20%</td>
</tr>
</tbody>
</table>