



February 15, 2012

The Climate Change Education Partnership (CCEP) is a National Science Foundation funded research project involving Colorado State University, the National Park Service, the U.S. Fish and Wildlife Service, and the National Parks Conservation Association. The purpose of this nationwide, collaborative effort is to scope the communication challenges, opportunities, and needs among park and refuge staff when discussing climate change impacts on America's public lands. Including your region, we have five pilot site areas across the country (northern Colorado, south Florida, the District of Columbia, the Kenai Peninsula in Alaska, and Washington's Puget Sound). We have engaged each region in a similar process, beginning in late March 2011 and continuing through January of 2012.

Because our goal is to engage you, your staff, managers, volunteers and partners at adjacent public lands in a "landscape-scale" approach to climate change education, a significant part of our effort to achieve this goal has been to collect quantitative and qualitative data regarding National Park and National Wildlife Refuge visitor perceptions of specific effects of climate change on America's public lands. This report provides raw transcriptions of our visitor interviews at Olympic National Park. Please take some time to peruse the interview transcriptions of *your* visitors, as they provide rich and meaningful insight into the perspectives people bring when visiting your park. The interview data we have collected at each park and refuge within our pilot site locations is very important as we begin to brainstorm and collaboratively develop education tools for your unique visitor population.

OLYMPIC NP INTERVIEWS

July 6, 2011

Interview Site: Hurricane Ridge

CLIMATE CHANGE LANGUAGE AND PERSONAL CONNECTIONS

Interview 1/1 – 0:00

I1: Male; Age 71; Retired; Port Angeles, WA

I2: Female; Age 68; Retired; Port Angeles, WA

Q) If you were talking with a friend, how would you describe climate change?

- I2: I don't know, I guess it would have to be as we've experienced it, and even here we've seen maybe weather changes, more severe, wouldn't you say?
- I1: Yes, and I guess I don't know if this is appropriate now we just heard the toxin level for shellfish in the Straight is –
- I2: - is back up, which means we can't get our mussels, we get a lot of our food from the nearby water –
- I1: - and that has to do with climate change so there would be a good example, and we're very aware of that –
- I2: And we follow the rules because if you don't you can get really sick and a lot of people don't follow rules and so they get really sick [laughs]. No we do provide for a lot of our food.

Q) If someone said how do you define climate change, how would you define it if you could put it in a glossary?

- I1: I think your flower situation might be the best example, right? My wife is quite a gardener and our son and his wife are also into the garden –
- I2: - well that would be more weather, because we've had such an unusually cool, wet spring and my annual flowers, that's my barometer, perennials have done fantastically well and I'm not sure why, and annuals are just really coming into where they should have been like 6 weeks ago, so...
- I1: I don't know if that answers your question, but we also see climate change because we've had a very very heavy snowpack in the Olympics this year, the article in the paper, I don't know if you read it this morning, talked about the fact that the rivers are going to be running high all summer, which is very unusual, usually they go down, so I guess we're talking climate change that way because the El Nino and La Nina...

Interview 2/1 – 6:34

I1: Male; Age 58; Manager in Industry; Israel

I2: Female; Age 58; Teacher; Israel

Q) If you were talking with a friend, how would you describe climate change?

- I1: You know it used to be global warming but it's not so today, it's changes, I don't know if anyone is really able to understand the sources of these changes, it's the volcanoes are causing it or maybe the pollution is causing, definitely the word is changing.

Q) Other than the causes, do you have an idea of the process, do you have a definition for climate change?

- I1: Yeah, it's definitely you can see in many areas that the glaciers are being melted and there is a fear that the level of the sea will rise and some islands will disappear or some low areas will be flooded.

Interview 3/1 – 12:21

I1: Male; Age 74; Retired; Seattle, WA

I2: Female; Age 64; Retired; Seattle, WA

Q) If you were talking with a friend, how would you describe climate change?

- I1: Well if you talk about discussion, it is a little bit difficult if you look at year to year changes, like lots of snow here now, so where is the warming? You know, so I guess one has to supplement observations with reading and that's what we do and talk about –
- I2: - and so we know though that overall the climate is warmer and there are measurable changes in a lot of places –
- I1: Yeah we read that the passage through Oval's Arctic is open now! But on the other hand, we had a lot of snow this year [laughs]

Q) So there's a lot of confusion with the terms global warming and climate change, do you use other terms to encompass this idea?

- I2: No I guess I don't.

Interview 4/1 – 18:50

I1: Female; Age 34; County Planner; Bloomington, IN

I2: Female; Age 63; Retired; Sequim, WA

Q) If you were talking with a friend, how would you describe climate change?

- I2: I think we have climate change because of the manufacturing and the technology and the cars, and the more humans on this Earth, the more they're going to mess things up, and it's really difficult once you get used to modern conveniences to turn people around. It's sad.
- I1: Well the other part of our conversations about climate change have to do with frustration with politics and lack of regulation and lack of movement to try to fix anything.
- I2: They're so busy taking care of themselves and the folks that handed the money to get them into office, that they're just not doing what we need, they aren't taking care of us, the democracy is not working, it's sad.

Q) How would you define climate change?

- I2: Right now it seems the planet is heating up and just a couple of degrees of heat change changes the –
- I1: - the entire planet's ecosystems –
- I2: - yeah the planet's plants, animals, ability to survive.
- I1: And I would say that it's man-made phenomenon, most likely.
I2: Yeah, there's some part of it that's natural, we've been down to Joshua Big Tree and a 100 years ago there were farms in there and you can't do that now, nothing can survive in there now practically.

Q) So there's a lot of confusion with the terms global warming and climate change, do you use other terms to encompass this idea?

- I2: What I understand is that history shows that when there were huge volcanoes going off that it majorly affected the earth, so when you think that all of our technology is equivalent to a volcano going off, we're creating that, that's what we're doing to the earth.

Q) So maybe using metaphors that connect things we're doing to what has happened?

- I2: Yeah, connecting the natural to what we're creating ourselves, the harm we're doing.
- I1: Maybe more of an emphasis that it's a long-term situation rather than just what happens today.
- I2: And we're screwing it up for our kids and grandkids and it's sad.

Interview 5/2 – 0:00

I1: Female; Age 57; Part-time Massage Practitioner; Richland, WA

Q) If you were talking with a friend, how would you describe climate change?

- I1: I wouldn't. [laughs]

Q) Why is that?

- I1: It's not anything I've ever thought about or considered.

Interview 6/2 – 4:55

I1: Male; Age 68; Retired; Port Ludlow, WA

I2: Female; Age 67; Retired; Port Ludlow, WA

Q) If you were talking with a friend, how would you describe climate change?

- I1: Obviously there are natural effects on climate change but I certainly think man-made contribution is definite, I think all the scientific organizations that have done studies, contrary to the politicians that say there's not enough evidence to prove it, I think that's all political-based. Contrary to some of my friends that are on the extreme right or left, but we kind of understand man's impact on nature and burning of the Brazilian forests and coal pollution, so we're pro-nuclear from that standpoint.

Q) What does climate change mean to you personally?

- I1: Well it means that our particular place where we live, the forecast says it'll be colder and wetter, which is not why we moved here [laughs]. Although, when we look across the country and see what's happening with tornadoes, forest fires, flooding, we really still very fortunate in this part of the state to have some pretty darn nice weather and living conditions, so we can see record floods, record this record that, notwithstanding there's a natural cyclical nature of those kinds of things, but the preponderance of it and then you relate it to the Gulf Streams and changes in current temperatures, whether it's La Nina or El Nino, those are natural, so it affects us, so that when we think about where we're going to travel, we also think about will we enjoy it when we're there...
- I2: Is it annoying to us? Yes, why does this have to be? And there's nothing we can do about it...

Q) So there's a lot of confusion with the terms global warming and climate change, do you use other terms to encompass this idea?

- I1: I haven't really thought about it much, I think it's such a recognized term that maybe is now almost trying to be politically correct to avoid the nuances of global warming pro and con, ok we're going to call it something else, but it still on the back of everybody's mind, it's too much in the vernacular, a rose is a rose kind of thing, so I don't dwell on trying to be politically correct, scientifically correct, to try to change people's bias. Whether you say it's climate change or global warming, I think people understand the dynamics of what's going on and either you say it's not man-made or a marginal contribution and it's mother nature doing her thing...
- I2: Too bad they don't have a man-made global warming and a natural global warming, is it nature or is it man that's doing it? If there could be a term that does that, that would be good.

Interview 7/2 – 18:20

I1: Male; Age 64; Management Consultant; Port Ludlow, WA

I2: Female; Age 64; Management Consultant; Port Ludlow, WA

I3: Female; Age 64; Administrator; Brookline, MA

Q) If you were talking with a friend, how would you describe climate change?

I1: I would just say, so what we've observed is that it appears that weather is changing and getting warmer and we've seen, for instance we were in Alaska and we've seen glaciers that were retreating and we've been in New Zealand seeing glaciers retreating and we know how often and awful some of the fires have been and how hotter and more devastating they are in the west, you know forest fires are just so much hotter, they're killing the trees whereas in the past they'd pass through and trees would survive, so actually we're quite concerned about it.

- I2: And I think one of the things we worry about, for instance we know that the ozone layer has been affected greatly by man-made reasons, we're not quite sure how much is the normal cycle of the earth for climate change as it's occurred in the past, versus how much we're speeding that along, we certainly had a lot of respect for Al Gore's movie and learned a lot.

Q) So there's a lot of confusion with the terms global warming and climate change, do you use other terms to encompass this idea?

- I1: Well I think it's in the broader context of what impact we as humans are having on our environment, and to me there's no question we're impacting the environment and doing it in adverse ways, we see you can clearly chart acid rain, the quality of the air, the rivers, we're clearly impacting our environment, so it seems natural that the impact of the environment will longterm lead to things that are going to either change the climate or change the over all earth in terms of it's ability to support human life, so I view it in those contexts, but yes, I'm not sure people necessarily understand and differentiate between those terms.
- I2: And unfortunately I think this issue has fallen like so many important issues that need some good heads that are objective and scientific with a lot of good research to be problem-solving and I'm afraid this one, like many, have fallen into the political arena, and when it begins to be seen through the lens of a political part or administration, it gets so clouded and confusing, so the more it can be kept out of that arena it can be purely for science sake so that people can understand it better, because so often when somebody is explaining climate change/global warming, people will just get on their haunches and say, oh you must be a republican or a democrat, you're one of those crazy liberal people, and that's very annoying to us, because like so many issues that are important, it distorts the issue and it keeps it from getting the real solutions it needs.
- I1: And I think that we're doing things to the environment that are potentially causing the warming that we see –
- I2: - it would be helpful to know what it is, what we have control over –
- I1: - and it's the warming that is potentially going to cause changes in the climate.
- I2: Also, unfortunately I think there are certain environmental groups with the best of intentions that get seen as businesses and having to do with fundraising and again, I wish more environmental groups/organizations that are non-profit that have similar missions, would collaborate more, would pool their resources, I know that may lead to fewer jobs or whatever, but I think that would be some benefit to that.

Interview 8/2 – 40:43

I1: Male; Age 71; Architect, Semi-Retired; Mercer Island, WA

Q) If you were talking with a friend, how would you describe climate change?

- I1: To me climate change is something which number one is cyclical, it comes and goes, but the span of climate change is thousands and millions of years, so the human life is insignificantly short compared to climate change.

Interview 1– 1/0:00

I: M; Age 73; Retired; Lake Havasu City, AZ

Q) How would you describe climate change to a friend?

- Around this area I've noticed colder temps and more rain, I actually spend most of my time in Arizona and actually the last couple of years it's been colder, winters last longer, other than that...I don't know, it sure hasn't gotten dryer around here, this side of the mountains.

Q) What does climate change mean to you?

- Well, I've read quite a bit about it and I'm very fearful of reaching the tipping point which can be devastating, what can happen...There could also be an ice age in this area, I'm concerned about that.

Interview 2– 1/3:52

I: M; Age 47; Investment Management; Sequim, WA

Q) How would you describe climate change to a friend?

- For me the word would be volatility, changes, not necessarily global warming.

Q) What does climate change mean to you?

- Probably would be the same.

Interview 3– 1/10:37

I1: M; Age 22; Student; Seattle, WA

I2: F; Age 22; Student; Davis, CA

Q) How would you describe climate change to a friend?

- I2: So a lot of the chemicals that we've been putting into the atmosphere like carbon and methane, things like that, reflect heat back onto the earth's surface after it leaves the earth, which contributes to a generally warming climate but different effects in different areas...Decreased snow cover, glaciations, polar ice caps melting. Around here I think it's supposed to make for rainier summers and less snow in the winters.
- I1: Same thing. I mean I can describe effects I've seen in other places...So I go up in the Sierras a lot in California and there are snow banks that used to always be there, year-round, and now they're melting faster in the spring and not there anymore. We were just up in Canada recently and saw a glacier that's rapidly receding...
- I2: It had signs where it had been in 1925 and years past...

Q) Where was that?

- I2: That was in Banff, the Columbia Icefield, the Athabasca Glacier or something like that.
- I1: In other places it's a lot more varying, we both went to school in Minnesota and last spring it was really unusually warm but this one was unusually cold so...

Q) What does climate change mean to you?

- I2: To me it means that by the time I retire or something Glacier National Park won't have any more glaciers, so like, a lot of those alpine meadows and snow-covered peaks and stuff that I really love going to visit won't be around any more.
- I1: Yeah, a lot of change in different ways.

Interview 4 – 2/0:00

I1: F; Age 37; Mom/business; Hanalei; HI

I2: F; Age 70; Retired environmentalist; Port Angeles, WA

I3: M; Age 68; Retired RN; La Jolla, CA

Q) How would you describe climate change to a friend?

- I1: Acidification of the oceans, rising sea level and changing weather patterns. And of course increase melting rate of the ice in the arctic and all of the things that go along with that.

Q) What does climate change mean to you?

- I1: Similar but more all-encompassing because it means a lot of human movement as a result of rising sea levels eventually and a lot of human relocation perhaps on the basis of weather changes, places where crops where grow will change, wildlife habitat will change, it is changing but it's going to change at a more rapid rate than it has in our evolutionary past. And in fact extinctions might increase and so might the change toward new species increase. Everything will be speeded up.

Interview 5 – 2/11:22

I1: M; Age 60; Retired teacher; New South Wales, Australia

I2: M; Age 51; Council Worker; New South Wales, Australia

I3: F; Age 49; School assistant; New South Wales, Australia

I4: F; Age 64; Teacher; New South Wales, Australia

Q) How would you describe climate change to a friend?

- I1: Changing climate, not necessarily a simple warming across the world but general warming...rising sea levels, changing ecology and pressure on wildlife to adapt...
- I2: Yeah!

Q) What does climate change mean to you?

- I1: Personally? (sighs) It's obviously something we don't want to have happen, we need to deal with it, look after the place for our grandchildren and all that yes.

- I2: I feel the same way, yeah.

Interview 6 – 2/22:45

I1: F; Age 52; Health Administration; Hartland, WI

I2: M; Age 20; Hartland, WI

Q) How would you describe climate change to a friend?

- I1: Oh my goodness, um...probably seeing things that you wouldn't typically or normally anticipate...being impacted by the climate. (asking son) Is that right? Something out of the ordinary.

Q) What does climate change mean to you?

- I1: Same as above.
- I2: I don't know, that the world is constantly changing, it's normal.

Interview 7 – 2/25:55

I1: M; Age 50; TV Director; Boston, MA

I2: M; Age 13; Student; Boston, MA

Q) What does climate change mean to you?

- I1: ...How does it impact me? What's the definition? (answers 4)
- I2: I think he said it well.
- I1: That would be how I'd describe it, a global thing. So far it hasn't impacted me personally.

Q) How would you describe climate change to a friend?

- I1: Um...I'd describe it as a long time...characteristics of climate in particular places around the world is changing, it's getting warmer but that change is impacting a variety of things in the environment.
- I2: I don't know...

Interview 8 – 2/33:13

I1: M; Age 68; Retired; UK

I2: F; Age 67; Retired; UK

Q) How would you describe climate change to a friend?

- I1: Probably...10 years ago we were up at the Columbia Ice Field in the Rockies. Friends of ours had been there 8 years before and the glaciers had receded somewhat from when they were there. And my photographs compared to theirs show shrinking glaciers. Especially the Columbia Ice Field. So maybe there is some effect. Possibly a change in the timing of plants flowering and things like that. But again I'm not a geologist, ecologist, I just enjoy it.
- I2: We can only speak for the UK. We had a warm spell February, March, April and then suddenly it went cold and everything stopped again, the plants were thinking a bit too soon! Our strawberries came a bit early! But things do seem to be changing a bit.
- I1: There seems to be a time shift in things...

Q) What does climate change mean to you?

- I1: Probably it means buying different clothes!
- I2: I have to say this past winter I had to buy warm jumpers, I'd never had to buy them before.
- I1: I don't think the seasons are quite as reliable on the calendar as they used to be. That's probably an indication.
- I2: Well, you go so many years without a bad winter then you have another one so it's cyclical, whether that's changing forever or whether it's just...it's hard to tell.
- I1: We're not in a particular cold part of the UK but as you get further north into Scotland it gets a lot colder up there, but we had some very unusual weather for us this year, lots of rain. But down in the southeast of England it was a drought, they had to stop farmers watering the plants. There's just not enough in the rivers.

- I2: And when we have droughts, it's usually August, but this year it was June. We had a very dry spring last year.

Interview 9 – 3/0:00

I: M; Age 60; Structural Engineer; Livonia; MI

Q) How would you describe climate change to a friend?

- I1: Is definitely man-made...It is mostly at the poles, in Alaska, I have noticed springs last longer, winter comes later, and in low-lying countries like the Netherlands they care because they can foresee the consequences of the rising sea level.

Q) What does climate change mean to you?

- I1: The same. We are from Romania, we came to the US in 1980.

Interview 10 – 3/4:45

I1: M; Age 28; Art Director for toy company; San Ramon, CA

I2: F; Age 29; Art Director for toy company; San Ramon, CA

Q) How would you describe climate change to a friend?

- I1: Climate change in general? I would say it's warming as opposed to cooling based on man-made...
- I2: Causing lots of crazy weather patterns...

Q) What does climate change mean to you?

- I1: Well we're looking for somewhere to move and we're not moving to the gulf coast because we think the weather there is crazy now.
- I2: It's a little scary

Interview 11 – 3/0:00

I1: F; Age 12; Student; Elkin, NC

I2: F; Age 39; Teacher; Sammamish, WA

Q) How would you describe climate change to a friend?

- I2: Climate change...um...I don't know...
- I1: A change in the overall weather pattern in a geographic area.
- I2: Well definitely there's a lot more snow here like she said and deer and you can't really climb up the paths and so probably deer and wildlife have less food to eat because it's all covered in snow.
- I1: I have a teacher definition: It's the overall change in the weather patterns and temperature of a certain geographic area over a period of time.

Q) What does climate change mean to you?

- I2: ...hmmm
- I1: Well putting it to me means how it impacts me which would then mean, we can't hike the one I had planned because it's covered in snow this year and last year it wasn't. So you have to be flexible and plan accordingly and realize some of this we've done to ourselves and some we haven't.
- I2: Human and natural effects.

Interview 12 – 3/14:40

I: M; Age 45; Security; Kennewick, WA

Q) How would you describe climate change to a friend?

- Um, the ever-changing cycle of how the weather moves and how trees and bushes grow.

Q) What does climate change mean to you?

- Same for me as above.

Interview 13 – 1/0:00**I1: M; Age 35; Pharmacist; Snoqualmie WA****I2: F; Age 35; Pharmacist; Snoqualmie, WA**

Q) How would you describe climate change to a friend?

- I1: The earth is warming, the temperatures are warmer now than they used to be probably from the greenhouse gases society has been emitting and that leads to an overall warming and different areas may experience that differently. That's why they stopped calling it global warming and started calling it climate change because some areas may experience drought and others may experience more rain and more snow paradoxically because it rains more but an overall change in the climate that can affect the way people live in specific areas.

Q) What does climate change mean to you?

- I1: I don't know if it would be a different response...
- I2: A little bit of worry that the glaciers at Rainier won't be there for my son to see when he grows up or that things won't be around longer...
- I1: Just a feeling of guilt over, I mean I'm probably not going to experience anything too drastic in my lifetime. I mean I'm in a house and I can move but there are people in other parts of the world living close to sea level where they can't move very easily. I'm thinking about places like Bangladesh where small changes in the climate can really uproot their lives.

Q) Is there a term you'd rather hear or use that would better embody what's happening?

- I1: Nothing comes to mind, I'm sure there might be one but...

LOCAL CLIMATE CHANGE OBSERVATIONS**Interview 1/1 – 0:00****I1: Male; Age 71; Retired; Port Angeles, WA****I2: Female; Age 68; Retired; Port Angeles, WA**

Q) Have you seen anything at the Park that you would say, "I think that's happening because of climate change"?

- I2: Not really, I guess I'm not quite clear on climate and weather, because we definitely see how vulnerable we are to weather changes and that's totally out of our control –
- I1: - well wouldn't climate be year after year, weather might be right now...
- I2: Yes, so in terms of climate I'm not sure I am. We've lived in the Northwest for many years but we've only been here for 7.

Interview 2/1 – 6:34**I1: Male; Age 58; Manager in Industry; Israel****I2: Female; Age 58; Teacher; Israel**

Q) Have you seen anything at the Park that you would say, "I think that's happening because of climate change"?

- I2: We just started to walk here and we see we can't walk on any trail here because everything is closed, so we don't know yet.

Interview 3/1 – 12:21**I1: Male; Age 74; Retired; Seattle, WA****I2: Female; Age 64; Retired; Seattle, WA**

Q) Have you seen anything at the Park that you would say, "I think that's happening because of climate change"?

- I2: Well we were just on the ranger talk and he told us about the marmots, they used to be far more populous in this area than they are now and that's in part due to climate change as well as

other human-induced change. Different flowers are growing, trees are growing, food sources are changing for them, there are new predators.

Interview 4/1 – 18:50

I1: Female; Age 34; County Planner; Bloomington, IN

I2: Female; Age 63; Retired; Sequim, WA

Q) Have you seen anything at the Park that you would say, “I think that’s happening because of climate change”?

- I1: I saw quite a bit of erosion, a lot of bare earth, and it seems like the snow’s up here later, not a lot of plants growing, so... perhaps I don’t know if that’s here all the time, but maybe that.
- I2: We moved out here to be at place where we’ve got the air coming across the ocean, and we’re getting fresh everything, we’re not living in the Midwest where it’s coming off of Canada, it’s coming across the plains. We wanted a place we thought was safer and that’s why we live here.

Interview 5/2 – 0:00

I1: Female; Age 57; Part-time Massage Practitioner; Richland, WA

Q) Have you seen anything at the Park that you would say, “I think that’s happening because of climate change”?

- I1: No because I don’t know enough about the climate here or anything that’s changed, I’ve never been here, I have nothing to compare it to.

Interview 6/2 – 4:55

I1: Male; Age 68; Retired; Port Ludlow, WA

I2: Female; Age 67; Retired; Port Ludlow, WA

Q) Have you seen anything at the Park that you would say, “I think that’s happening because of climate change”?

- I1: Well we now we’ve had record snows around here, it’s just another unusual occurrence and we’ve had so many. It cycles, in and of itself it’s not a red flag.

Interview 7/2 – 18:20

I1: Male; Age 64; Management Consultant; Port Ludlow, WA

I2: Female; Age 64; Management Consultant; Port Ludlow, WA

I3: Female; Age 64; Administrator; Brookline, MA

Q) Have you seen anything at the Park that you would say, “I think that’s happening because of climate change”?

- I3: Are those fires that we saw across the way from 2003? The fires looked like the topography was camouflaged, 8 years ago whatever it’s been, and then these pieces of snow from 40 feet of snow, it’s remarkable.
- I2: And it’s hard to know on a given year, I know they had 40 feet of snow and a late spring, but it’s hard to know is there less snow than maybe normal because of climate change than then would be under these circumstances years back?
- I1: I did see a sign in the restroom saying we’re experiencing a water shortage, and we said, with 40 feet of snow, why should they have a water shortage? But in the park itself, we did see plenty of water, waterfalls, and fortunately we didn’t have any additional fires, there was no spring, it was a very late spring, there aren’t many wildflowers.

Interview 8/2 – 40:43

I1: Male; Age 71; Architect, Semi-Retired; Mercer Island, WA

Q) Have you seen anything at the Park that you would say, “I think that’s happening because of climate change”?

- I1: I wouldn’t think so. The snow is still white, the mountains are still there, the trees are green.

Interview 1/1 – 0:00

I: Male; Age 73; Retired; Lake Havasu City, AZ

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: Not really, I haven't been here enough to notice that.

Interview 3/1 – 10:37

I: Male, Female; Age 22; Student/ fire studies; Seattle, WA, Davis, CA

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: In the few minutes I've been sitting here no...
- I: I haven't been back here several times in the course of several years, which I feel like is needed but like less snow cover on the mountains if I had to guess.

Interview 4/2 – 0:00

I: Female, Female, Male; Ages 37, 70, 68; Mom/business, retired environmentalist, retired RN; Hanalei, HI, Port Angeles, WA, La Jolla, CA

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: You know, I don't think I have.
- I: The answer is no, but I would anticipate that there are noticeable changes. And especially in the trees, any change in the amount of rainfall that is growing, so beyond trees vegetation is the answer. And also I would say that any change in rainfall is going to cause a difference in the amount of water in rivers and streams which can relate to flooding or lack of flooding, that kind of thing. And finally snowfall, snowpack, even though we're at something like 192% of our normal snowfall this year we might anticipate seeing less in future years or more because we will see different weather, and more rapid change in weather patterns.

Interview 5/2 – 11:22

I: Male, Male, Female, Female; Ages 60, 51, 49, 64; Retired teacher, council worker, school assistant, teacher; New South Wales, Australia

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: I don't have a point of reference, so no.
- I: I think there's more snow on the ground than usual this time of year.

Interview 6/2 – 22:45

I: Female, Male; Ages 52, early 20's (?); Health administration; Hartland, WI

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: No.

Interview 7/2 – 25:55

I: Male, Male; Ages 40, 13; Student, TV director; Boston, MA

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: Glacier is getting smaller over there, they're all getting smaller

Interview 8/2 – 33:13

I: Male, Female; Ages 68, 67; Retired; UK

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: Not that I'm qualified to say...there's more snow up here this time of year than there was when I was here five years ago, but you've had a lot of prolonged cold spells in the spring, we have in the UK as well. You know we had more snow this winter than we have in many years on the coast, the NW coast of the UK, but I'm not qualified to say it's climate change, some of these things are cyclical...

Interview 9/3 – 0:00

I: Male; Age 60; Structural engineer; Livonia, MI

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: In what sense? Last time we were here was early September so there was more snow of course, but that's the season.

Interview 10/3 – 4:45

I: Male, Female; Ages 28, 29; Art director for a toy company; San Ramon, CA

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: Probably not
- I: We just got here.

Interview 11/3 – 0:00

I: Female; Female; Ages 12, 39; Student, teacher; Elkin, NC, Sammamish, WA

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: There's a huge difference this year from last spring, there is way more snow this year but I don't know if it's climate change or just there was a really cold spring.

Interview 12/3 – 14:40

I: Male; Age 45; Security; Kennewick, WA

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: I haven't noticed anything because it's the first time here.

Interview 13/1 – 0:00

I: Male, Female; Age 35; Pharmacist; Snoqualmie, WA

Q) Have you seen anything in the park that you'd say is happening because of climate change?

- I: I've never thought that. I don't know how you could see one event and say that.
- I: It's not like at Mt. Rainier where you can see the glaciers used to be down to there and now they're up there, I haven't seen that here.

INTEREST IN LEARNING ABOUT CLIMATE CHANGE AT NATIONAL PARKS AND WILDLIFE REFUGES
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Interview 2/1 – 6:34

I1: Male; Age 58; Manager in Industry; Israel

I2: Female; Age 58; Teacher; Israel

Q) Have you seen any reference to climate change in the Park?

- I1: No, not yet, we're on our way over to the Visitor's Center.

Q) Do you think that's something the Park should be talking about with the public?

- I1: Sure, because it's a process of education, and it takes years and usually it starts from the kids and usually the kids are influencing the parents.

Q) What would be your favorite way to learn about climate change here?

- I1: With examples, with some presentations, movies, something that can be user-friendly. ***I interpreted this as ranger/interpreter-led activities***

Interview 3/1 – 12:21

I1: Male; Age 74; Retired; Seattle, WA

I2: Female; Age 64; Retired; Seattle, WA

Q) Do you think the Park should be talking about how climate change is impacting this place?

- I2: Yeah I think so.
- I1: Yeah, it's maybe not as clear as some other places but sure.

Interview 4/1 – 18:50

I1: Female; Age 34; County Planner; Bloomington, IN

I2: Female; Age 63; Retired; Sequim, WA

Q) Do you think the Park should be talking about how climate change is impacting this place?

- I1: Perhaps, if it is, if there's noticeable affects and if you can show visitors what's happening and have it be like a concrete example of what's going on, it could be good, open people's eyes and make them realize it's not just a myth.
- I2: Yeah, what happens we're not in isolation, what happens in China or Japan, the wind's going to blow it, the currents are going to send it, we're going to get it over here.

Q) What is your preferred way to learn about climate change?

- I1: That's hard because you don't want to force it.
- I2: It's hard because the United States is not the leader in this, climate change people are the rest of the nations, it's sad.

Interview 5/2 – 0:00

I1: Female; Age 57; Part-time Massage Practitioner; Richland, WA

Q) Do you think the Park should be talking about how climate change is impacting this place?

- I1: If it's relevant to the health of the area, absolutely.

Q) What is your preferred way to learn about climate change?

- I1: Educational TV is pretty good, public stations, travel stations, science stations, they have programs on that.

Interview 7/2 – 18:20

I1: Male; Age 64; Management Consultant; Port Ludlow, WA

I2: Female; Age 64; Management Consultant; Port Ludlow, WA

I3: Female; Age 64; Administrator; Brookline, MA

Q) Do you think the Park should be talking about how climate change is impacting this place?

- I2: I do, I think that's a very good idea, because somehow even though the National Park Service is part of this administration, it doesn't matter, somehow, they seem a bit immune, they're more like what I was talking about before, and objective voice –
- I1: And they have a lot of credibility, the whole idea of the ranger speaking...
- I2: If they are not so much of a pedantic lecturing but more of a I just want to share with you some things you have control over, I think that would be beneficial.

Q) What is your preferred way to learn about climate change?

- I2: As tandem to what we're already looking at, like with the rangers, I think that would be an automatic, and you know, we just pressed the button to see the 20 minute film and it didn't say anything about it. What a wonderful opportunity to say we're noticing the following changes and show pictures and put a little time into that and then here are some things that we ask our visitors to do that are quite simple and helpful. **I interpreted this film part as the Visitor's Center, as this is where films would be shown**
- I1: But it is part of their mission, education is part of their mission, and we always enjoyed going to the ranger talks, we took our children to it, it's a wonderful opportunity to talk about today's issues.
- I3: The real question with all this marketing, people really know how to personalize it, it seems like it's happening and someone else will take care of it. It seems like we all sit around and talk about this changing going on but somebody else will take care of it, nobody has ownership of it, and you don't know who it is who has ownership, it ties into the politics of the deal and which

administration, quid pro quo will be, but it hasn't been made personal enough to have that kind of advocacy, you don't know where you're advocating...

- I2: I agree totally with what you're saying, I will say that a movie like Al Gore's, even though it's been undermined afterwards by those that didn't want to hear that or the businesses involved or whatever, but I did think we walked out of that, it was very sobering –
- I3: - it was, nothing followed up, and there he was with his institute and I'm sure he's doing stuff but who knows what he's doing, and, that translation, I think is the biggest piece, how do you translate?
- I2: The national ad council provides free advertising to non-profits and this would wonderful opportunity to be in contact with them, a partner to the National Park Service if the Park Service can't do it themselves.

Interview 8/2 – 40:43

I1: Male; Age 71; Architect, Semi-Retired; Mercer Island, WA

Q) Have you seen any mention of climate change here at the Park?

- I1: Some, not much.

Q) Do you think the Park should be talking about how climate change is impacting this place?

- I1: Sure, you know it's part of taking care of the nature, but I was here first time about 40 years ago and if you come back 100 years from now it still will be the same, it's a national park so there's no development allowed here, and that's what is so nice about the whole idea of national parks and reservations and places which are so beautiful that it would be a shame to alter them in any way.

Interview 1/1 – 0:00

I: Male; Age 73; Retired; Lake Havasu City, AZ

Q) Have you received any information from the park about changes they're seeing?

- I: No.

Q) Would you like to?

- Sure.

Q) How would you like to learn?

- I: Probably a pamphlet or something like that, I don't know if they gave me that, I haven't looked at what they gave me when I came through the gate today.

Interview 2/1 – 3:52

I: Male; Age 47; Investment management; Sequim, WA

Q) Have you received any information from the park about changes they're seeing?

- I: No.

Q) Would you like to?

- I: Sure

Q) How would you like to learn?

- I: Internet, Park website

Interview 3/1 – 10:37

I: Male, Female; Age 22; Student/ fire studies; Seattle, WA, Davis, CA

Q) Have you received any information from the park about changes they're seeing?

- I: No.

Q) Would you like to?

- I: Sure.

Q) How would you like to learn?

- I: Probably a sign out here when you're looking at all the glaciers that says "These glaciers are shrinking because of climate change". I read those a lot more than the pamphlets.

- I: Yeah, I don't know if email would be effective or not.

Interview 4/2 – 0:00

I: Female, Female, Male; Ages 37, 70, 68; Mom/business, retired environmentalist, retired RN; Hanalei, HI, Port Angeles, WA, La Jolla, CA

Q) Have you received any information from the park about changes they're seeing?

- I: No.

Q) Would you like to?

- I: No, not really. My reason being that this is a huge natural area...because other than those changes actually caused by burning fossil fuels in this area any and all changes in this vast wilderness area are going to be caused by globally spawned events or...anyway so what's going to happen here is going to happen pretty much naturally, within the context of global warming. So there's nothing that really people can do about the changes that take place here other than reduce the emissions of hydrocarbons within the park.

Interview 5/2 – 11:22

I: Male, Male, Female, Female; Ages 60, 51, 49, 64; Retired teacher, council worker, school assistant, teacher; New South Wales, Australia

Q) Have you received any information from the park about changes they're seeing?

- I: No

Q) Would you like to?

- I: That would be interesting.

Q) How would you like to learn?

- I: The internet
- I: Internet, park website

Interview 6/2 – 22:45

I: Female, Male; Ages 52, early 20's (?); Health administration; Hartland, WI

Q) Have you received any information from the park about changes they're seeing?

- I: No we have not.

Q) Would you like to?

- I: Yeah.

Q) How would you like to learn?

- I: Online

Interview 7/2 – 25:55

I: Male, Male; Ages 40, 13; Student, TV director; Boston, MA

Q) How did you learn that?

- I: That that one is getting smaller? Well they're all getting smaller.

Q) Have you received any information from the park about changes they're seeing?

- I: Just listened to this ranger's talk, she mentioned it briefly, she showed a couple of pictures 70-80 years apart of those peaks that show the glacier's a lot smaller than it was.

Q) How would you like to learn?

- I: I certainly enjoyed her talk, she was knowledgeable, informative, pleasant...
- I: I'd say a ranger talk is a pretty good method.

Interview 8/2 – 33:13

I: Male, Female; Ages 68, 67; Retired; UK

Q) Have you received any information from the park about changes they're seeing?

- I: No.

Q) Would you like to?

- I: In what way and when?
- Q) How would you like to learn?
- I: Probably email, we're back in the UK so...

Interview 9/3 – 0:00

I: Male; Age 60; Structural engineer; Livonia, MI

- Q) Have you received any information from the park about changes they're seeing?
- I: No.
- Q) Would you like to?
- I: Sure.
- Q) How would you like to learn?
- I: Probably in a pamphlet and email

Interview 10/3 – 4:45

I: Male, Female; Ages 28, 29; Art director for a toy company; San Ramon, CA

- Q) Have you received any information from the park about changes they're seeing?
- I: We haven't seen anything
- Q) Would you like to?
- I: Yeah, I would be interested.
- Q) How would you like to learn?
- I: Time lapse photography I think is always impressive, yeah, I don't know if they have animal populations, if that affects anything.
 - I: I always like pictures, I like reading about stuff too so any brochures or anything like that.

Interview 11/3 – 0:00

I: Female; Female; Ages 12, 39; Student, teacher; Elkin, NC, Sammamish, WA

- Q) Have you received any information from the park about changes they're seeing?
- I: I don't know if we got the...we got the newspaper coming into the park but we got stuff last year because it was the last summer of the Elwa dams on the river, but we haven't read the newspaper thing yet so no.
- Q) Would you like to?
- I: Yes, I like nature, it's very pretty
- Q) How would you like to learn?
- I: Probably doing it hands-on because I'm not really good with listening to people drone on and on so...

Interview 12/3 – 14:40

I: Male; Age 45; Security; Kennewick, WA

- Q) Have you received any information from the park about changes they're seeing?
- I: No.
- Q) Would you like to?
- I: Sure.
- Q) How would you like to learn?
- I: Internet would be the best.

Interview 13/1 – 0:00

I: Male, Female; Age 35; Pharmacist; Snoqualmie, WA

- Q) Have you received any information from the park about changes they're seeing?
- I: No.
- Q) Would you like to?
- I: Sure, yeah.

Q) How would you like to learn?

- I: If there was a sign in front of something you could visibly see and you had a before and after picture that shows the changes you can't deny but can physically see.

TRANSCRIPTIONS FOR KNOWLEDGE OF CITIZEN SCIENCE
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Interview 2/1 – 6:34

I1: Male; Age 58; Manager in Industry; Israel

I2: Female; Age 58; Teacher; Israel

Q) Have you heard of citizen science programs?

- I1: No.

Q) Do you think it sounds like a good way to engage visitors in this place and science topics, like climate change?

- I1: I don't know maybe, because if you're coming here for 1 hours or 2 hours, there's some time restrictions to participate...

Interview 3/1 – 12:21

I1: Male; Age 74; Retired; Seattle, WA

I2: Female; Age 64; Retired; Seattle, WA

Q) Have you heard of citizen science programs?

- I1 & I2: No.

Q) Do you think it sounds like a good way to engage visitors in this place and science topics, like climate change?

- I1: If you can find people who are predictably coming, but wouldn't apply to us because we are sporadic here and there.
- I2: I think it'd be great. I'm sure you have it in schools or thought about for school kids too, that'd be a terrific project.

Interview 4/1 – 18:50

I1: Female; Age 34; County Planner; Bloomington, IN

I2: Female; Age 63; Retired; Sequim, WA

Q) Have you heard of citizen science programs?

- I1 & I2: No.

Q) Do you think it sounds like a good way to engage visitors in this place and science topics, like climate change?

- I1: Well it seems like a great way to get high school kids or college students. Maybe something with Elderhostel programs too.

Interview 5/2 – 0:00

I1: Female; Age 57; Part-time Massage Practitioner; Richland, WA

Q) Have you heard of citizen science programs?

- I1: No.

Q) Do you think it sounds like a good way to engage visitors in this place and science topics, like climate change?

- I1: I do, absolutely, it sounds very hands-on and you know, maybe a little bit more meaningful than just watching and hearing about it, personable is what I meant to say.

Q) How would you recommend to get the word out about the program?

- I1: Like this hiking company I'm hooked up with today, making that available to them to make it available.

Interview 6/2 – 4:55**I1: Male; Age 68; Retired; Port Ludlow, WA****I2: Female; Age 67; Retired; Port Ludlow, WA**

Q) Have you heard of citizen science programs?

- I1 & I2: No.

Q) Do you think it sounds like a good way to engage visitors in this place and science topics, like climate change?

- I1: Yeah I do, it's like volunteering the use of your computer to search for the setting operations, the more people you involve, the more data you collect and maybe people would look at it as less bias if it's the citizenry of the world collecting data, you could still refute facts but obviously the more people involved in doing that the more conscious and level of awareness is raised, but you may only find those who are biased to be concerned about it to volunteer for it, just like anything else. People say well you have bias people out looking and collecting data that supports the conclusion they want to draw, be that as it may I think it's still a good idea.

Interview 7/2 – 18:20**I1: Male; Age 64; Management Consultant; Port Ludlow, WA****I2: Female; Age 64; Management Consultant; Port Ludlow, WA****I3: Female; Age 64; Administrator; Brookline, MA**

Q) Have you heard of citizen science programs?

- I1 & I2: No.

Q) Do you think it sounds like a good way to engage visitors in this place and science topics, like climate change?

- I1: I think if it's presented as something informative, educational, and fun to do, a certain segment will go along with it. If the mandate of the park service is to educate, to expand that to include something like a one week camp and it includes the science as well as the understanding of nature, I think people would be actively engaged in that, especially for young people, and once you get the message young, you're more likely to carry that with you.

Interview 8/2 – 40:43**I1: Male; Age 71; Architect, Semi-Retired; Mercer Island, WA**

Q) Have you heard of citizen science programs?

- I1: I don't think so.

Q) Do you think it sounds like a good way to engage visitors in this place and science topics, like climate change?

- I1: I think so.

Q) How to promote it?

- I1: Yeah, I haven't heard of it, so I imagine a lot of people haven't heard of it, so perhaps if it's more promoted it wouldn't hurt.

Interview 1/1 – 0:00**I: Male; Age 73; Retired; Lake Havasu, AZ**

Q) Have you heard of citizen science?

- I: No.

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: Probably not, I'm not available to do that because I don't come to the park very often.

Interview 2/1 – 3:52**I: Male; Age 47; Investment Management; Sequim, WA**

Q) Have you heard of citizen science?

- I: No.

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: Oh absolutely, I've been a scoutmaster 4 times. I was just pointing out we've gone over this pass, and this one...

Interview 3/1 – 10:37

I: Male, Female; Age 22; Student; Seattle, WA, Davis, CA

Q) Have you heard of citizen science?

- I: Oh, that's like research projects that are coordinated by somebody then performed by amateurs, yeah!

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: Yeah! Um, how would I be more aware about it? Probably a display at the visitor center.
- I: Yeah! A newsletter.

Interview 4/2 – 0:00

I: Female; Female, Male; Ages 37, 70, 68; Mom/Business, Retired Environmentalists, Retired RN; Hanalei, HI, Port Angeles, WA, LaJolla, CA

Q) Have you heard of citizen science?

- I: No.

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: I would like to do that! (Enthusiastic!)
- I: I wouldn't mind doing it but I don't like hiking in groups. Yeah, by ourselves is fine.

Interview 5/2 – 11:22

I: Male, Male, Female, Female; Ages 60, 51, 49, 64; Retired Teacher, Council Worker, School Assistant, Teacher; New South Wales, Australia

Q) Have you heard of citizen science?

- I: No.

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: Because we don't live locally that probably wouldn't be an option for us but...
- I: If they'd fly us over from Australia we would!
- I: Yeah. They could do local studies in Australia that I can do and cross-examine results.

Interview 6/2 – 22:45

I: Female, Male; Ages 52, early 20's; Health Administration; Hartland, WI

Q) Have you heard of citizen science?

- I: No

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: That personally is not something I'd be interested in...
- I: That sounds kind of interesting. Advertise it before the trip, on the internet.

Interview 7/2 – 25:55

I: Male, Male; Ages 50, 13; TV Director, Student; Boston, MA

Q) Have you heard of citizen science?

- I: No.

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: Yeah!
- I: We do these trips every year, we've gone to a lot of parks, the list is really starting to get long... (tangent)...Every time we do that there's a bunch of stuff and there's the Junior Ranger he and his sister have participated in and before we travel we spend a lot of time on the park websites and it says on that left column stuff for kids, places to visit...And if it said in the brochures they hand out when you visit, when you pay to get in...It would be better if I knew ahead of time so I could plan around it.

Interview 8/2 – 33:13

I: Male, Female; Ages 68, 67; Retired; UK

Q) Have you heard of citizen science?

- I: No.

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: We're not likely to be here to be honest. Have to pre-book a walk, but then I'm a fair-weather walker so...I'd probably go into the visitor center to find out about it, or on the internet but I usually call into the visitor center anyway.
- I: Yeah, we're going back on Monday...

Interview 9/3 – 0:00

I: Male; Age 60; Structural Engineer; Livonia, MI

Q) Have you heard of citizen science?

- I: No.

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: Sure.

Interview 10/3 – 4:45

I: Male, Female; Ages 28, 29; Art director for a toy company; San Ramon, CA

Q) Have you heard of citizen science?

- I: No

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: Yeah, that would be really cool.
- I: Yeah. I mean if you had something in the visitor center and they made you aware of things they're doing here, I think most people just come to the spots you're supposed to see but if you knew there was a hands-on way to see those things that would be cool, see other parts of the park.

Interview 11/3 – 0:00

I: Female, Female; Ages 12, 39; Student, Teacher; Elkin, NC, Sammamish, WA

Q) Have you heard of citizen science?

- I: I think I've heard of it but I don't really know what it is...

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: Yeah, I would do that!
- I: Do they do that here?
- I: That would be awesome, I would do that.
- I: That's stuff my 5 year old would love.

Interview 12/3 – 14:40

I: Male; Age 45; Security; Kennewick, WA

Q) Have you heard of citizen science?

- I: No.

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: If I came here to do that, yeah. We haven't seen too much information aside from little signs like this but that's about it.

Interview 13/1 – 0:00

I: Male, Female; Age 35; Pharmacist; Snoqualmie, WA

Q) Have you heard of citizen science?

- I: No.

Q) Would you be interested in participating in a program where you collect scientific data to contribute to the park's data of changes over time?

- I: It would depend on the details...
- I: Obviously not going to be going on a 3 day backpacking trip with our toddler but if it was a day hike or something like that, yeah, I'd be interested.

TRANSCRIPTIONS FOR GREEN FRIENDLY PRACTICES/PERSONAL CHOICES

Interview 1/1 – 0:00

I1: Male; Age 71; Retired; Port Angeles, WA

I2: Female; Age 68; Retired; Port Angeles, WA

Q) Do you consider yourself "green friendly"?

- I2: Oh absolutely.
- I1: Oh gosh yes.

Q) What do you do?

- I2: Everything we can.
- I1: Recycling, green products –
- I2: - a lot more label reading than I used to do probably.
- I1: We retired here to be close to the grandchildren and our son and his wife work for the Park and they too are very, very green conscious.

Interview 2/1 – 6:34

I1: Male; Age 58; Manager in Industry; Israel

I2: Female; Age 58; Teacher; Israel

Q) Do you consider yourself "green friendly"?

- I1: Sure.

Q) What do you do?

- I1: We try to separate the trash between what you're able to recycle and what not and try not to spend too much energy when it's not needed...

Interview 3/1 – 12:21

I1: Male; Age 74; Retired; Seattle, WA

I2: Female; Age 64; Retired; Seattle, WA

Q) Do you consider yourself "green friendly"?

- I1 & I2: Yes.

Q) What do you do?

- I2: Awareness, we recycle and try to cut down on our carbon footprint although we're not very successful at that...
- I1: We prefer meadows over asphalt roads.

Q) What motivates you?

- I2: This [Hurricane Ridge] I think partly, just the beauty of the world, knowing we need try and keep it...
- I1: Nature versus culture is a little out of balance and we should push more for nature.
- I2: Plus the fact that we live in a city and we've been to many cities where we can hardly see through the air things are so polluted, so wanting to curb that.

Interview 4/1 – 18:50

I1: Female; Age 34; County Planner; Bloomington, IN

I2: Female; Age 63; Retired; Sequim, WA

Q) Do you consider yourself "green friendly"?

- I1 & I2: Yes.

Q) What do you do?

- I2: We tried to not flush the toilets down there [the Visitor's Center] when they said to conserve water and it's an automatic toilet! [laughs]
- I1: Carpooling, recycling, trying to buy local.
- I2: We have electric bikes.

Q) What is your motivation to be green?

- I2: My motivation is the generations that come after.
- I1: Where I live in Indiana, it's not necessarily climate change but just seeing how development has occurred and how the fact that we can't eat the fish out of our streams and our lake is really frustrating. And I work in a planning office and review development proposals and really wishing we had stricter rules and regulations for, I mean we know we have endangered species in the area, but we have no regulations, local regulations, to protect those, so I know federally-funded projects have to follow those rules but locally-funded projects don't. And I just wish we had more political backbone and will to try to fix that.

Interview 5/2 – 0:00

I1: Female; Age 57; Part-time Massage Practitioner; Richland, WA

Q) Do you consider yourself "green friendly"?

- I1: Well, maybe, I don't know, I don't know what that means really.

Q) Do you reduce your impact on the planet?

- I1: I try to use biodegradable stuff and things that don't harm the environment.

Q) What motivate you?

- I1: Personal safety, I don't like using and inhaling harsh chemicals, I figure if they say keep out of reach of children, probably not good for me or the environment.

Interview 6/2 – 4:55

I1: Male; Age 68; Retired; Port Ludlow, WA

I2: Female; Age 67; Retired; Port Ludlow, WA

Q) Do you consider yourself "green friendly"?

- I2: Yeah.

Q) Why?

- I1: Well, we recognize the benefit of it for society and economics, we recycle, pick up our trash, we do the good stewardship of the land type of things.

Q) What motivates you?

- I1: Well we hate to see it when we go hiking, we kayak, we like it to be natural, so we leave it that way. All 3 of our boys were raised as scouts, so we raised everybody to be good campers and hikers.

Interview 7/2 – 18:20

I1: Male; Age 64; Management Consultant; Port Ludlow, WA

I2: Female; Age 64; Management Consultant; Port Ludlow, WA

I3: Female; Age 64; Administrator; Brookline, MA

Q) Do you consider yourself “green friendly”?

- I1: Yes, I think we are.

Q) What do you do?

- I1: Well because we love the great outdoors and we loved to keep it that way for other people and future generations.
- I2: And in addition to donating at the level that we can to our California state parks, to the parks here, the national parks, I’d say our lifestyle is such, everything from light bulbs to trying to conserve water, we spend the winter down in southern California, so we’re much more drought prone, we certainly abide by all the rules in terms of watering, we recycle, we were just talking about someone we know who collects rain water and uses it for gardening, so that’s something that we could be doing more of things like that.
- I1: We have found that some of the best quality times in our family life with our children and ourselves have been in the mountains, so we’ve spent a ton of time in the Sierras hiking just all over the Sierras, so now we’re starting to do it more up here.
- I2: We used to have a condo for 10 years up in Mammoth Lakes, so when our daughter was 2 we did hiking in the Sierras and the 2 of them are avid hikers as a result. We tended to spend our vacations in national parks.

Interview 8/2 – 40:43

I1: Male; Age 71; Architect, Semi-Retired; Mercer Island, WA

Q) Do you consider yourself “green friendly”?

- I1: I would think so.

Q) What do you do?

- I1: My occupation is an architect and I always try to design green buildings, green friendly at least, to a point of course, not completely abandon technology and other things, you know we have to take care of the nature somehow and not try to destroy it. But I am not in any way an activist or fanatic about it, I think anything should be done with reasons and to a point.

Interview 1/1 – 0:00

I: Male; Age 73; Retired; Lake Havasu, AZ

Q) Do you personally do anything to reduce your impacts on the earth?

- I: Well I drive a Toyota Prius, I try to recycle...I guess that’s about it.

Q) What motivates you to take these actions?

- I: Gasoline prices, basically, and the fear that they would escalate even farther than they have.

Interview 2/1 – 3:52

I: Male; Age 47; Investment management; Sequim, WA

Q) Do you personally do anything to reduce your impacts on the earth?

- I: That’s a good question. We’ve radiant heating with propane instead of electric, we have a wood stove, which I guess is still renewable around here so we’re using wood instead of other things, we recycle, we have to physically take things to the recycle center, so yeah, I think we are trying our best.

Q) What motivates you to take these actions?

- I: Probably because I love what I see and what I'm into out here and having been a scout master and an eagle scout some...not every scout has that sink in but I had that sink in. Seeing people who aren't way out there environmentally but common sense, heartfelt, that's kind of how I am. But once you see an old growth cedar, you don't want to see them disappear.

Interview 3/1 – 10:37

I1: Male; Age 22; Student; Seattle, WA

I2: Female; Age 22; Student; Davis, CA

Q) Do you personally do anything to reduce your impacts on the planet?

- I2: I try to bike instead of drive whenever I can...
- I1: Not use lights, or their energy whenever possible, unplugging devices...
- I2: Use CFL's...

Q) What motivates you to take these actions?

- I2: Because I like the glaciers!
- I1: Yeah, this place.

Interview 4/2 – 0:00

I1: Female; Age 37; Mom/Business; Hanalei, HI

I2: Female; Age 70; Retired RN; La Jolla, CA

I3: Male; Age 68; Retired Environmentalist; Port Angeles, WA

Q) Do you personally do anything to reduce your impacts on the earth?

- I1: Yeah, we do, as hopeless as it is.
- I2: We recycle a lot, we compost...
- I1: We very nearly have installed solar power for electricity but we haven't been able to justify the money, let's put it that way.
- I2: We try not to get plastic water bottles so we usually just do our own water thing (has a reusable water bottle)...
- I3: Use our own bags...
- I2: We were just talking about that on our way up!
- I1: Protest excess packaging...Don't eat farmed salmon...

Q) What motivates you to take these actions?

- I1: The future of the children of the world.
- I2: Yes, it makes me sick watching all the stuff that's happened...
- I1: And all the future generations beyond.
- I2: Yeah, for ourselves and for the future.
- I1: This is my daughter who will be impacted before she dies and her son who will be impacted even more. And what really gripes me is that nobody, and she and I talk about this, but nobody talks about ZPG anymore. You know what ZPG is? Zero population growth. It was a big popular idea in the 1970's and because it's politically incorrect today, it's not discussed.
- I2: I think it's a big deal.
- I3: I was going to say...Am I allowed to pipe up? The number one thing you guys did was take me out in the wilderness and now I can see the changes and I decided to only have one kid. The difference, and I've told my kid that, the difference between having one kid and two kids...huge! He can go through the list of all the things that two kids need: two tricycles, two things of diapers, two bottles, two preschools, two cars, two houses. And he can actually see in his head. There you go, the generations. And that's the best thing that anybody can do, far better than recycling or anything like that.
- I1: The only problem with that is that everybody in South America and Africa is going to be having 7 or 8 kids for the next 2 or 3 generations.

- I2: Well then education.
- I1: Well, yeah, let's hope they get the education that she has.
- I2: Well they have to have food, they have to have the resources, it's huge.

Interview 5/2 – 11:22

I1: Male; Age 60; Retired Teacher; New South Wales, Australia

I2: Male; Age 51; Council Worker; New South Wales, Australia

I3: Female; Age 49; School Assistant; New South Wales, Australia

I4: Female; Age 64; Teacher; New South Wales, Australia

Q) Do you personally do anything to reduce your impacts on the earth?

- I3: Absolutely! Lynn's right into that!
- I4: Solar hot water and (PV) photovoltaic panels on our roof, we compost, and we switch off our power cords when we're away...
- I3: Yeah, unplug anything when it's not in use.
- I4: Switch everything off which reduces consumption of power.

Q) What motivates you to take these actions?

- I4: Well because of the effect it's having on the earth. I mean we've all got to act responsibly and even little, little things, if everybody does a little I'm sure it will help. You can certainly say it's somebody else's problem nothing will ever get done and I'll say you've got to lead by example. Just stand up and do it! And that's what we're doing in our town actually.
- I3: We only live in a very small community like 2,500 people so...
- I4: That's what they're doing, using solar hot water, using PV cells, recycling, the council is very pro-active, they're doing the same thing putting them on their council buildings and the trucks have got "30% of this rubbish can be recycled" so they're encouraging, they're actually giving stipends for recycling coming...
- I3: Yes, I saw that!
- A4: Mulching, they're encouraging mulching everything, recycling, now what they're doing is including other areas and they're doing all the mulching and the recycling. We've got a shed where computers come in and they're pulling things out that can be used, and batteries, we've got a collection for batteries so we're trying to...and we've got special globes, I don't know what you have here in America, but they're less voltage light bulbs, energy efficient, but then there's the problem of disposal so they're going to look toward a place for collection points, things like that. And also there's things like compost bins and worm farms in the schools, the schools are being educated by other people from the council and plus we've got our own vegetable garden. The school we were at, it's a central school that goes from kindergarten to year twelve, then they're going to universities...but we've got an ag farm so we've got animals, vegetables, eggs, so we have that in the community anyway but the little children have their own little vegetable patch and grow things.
- I3: Plus the government gives you a rebate now, so they're encouraging you to go solar, if you've got the panels on your roof...
- I2: It's a big thing down there, solar.
- I3: So they give you, what is it, \$1,000 off?
- I2: The trouble is they're not really sure what they're doing at the moment, it's a new thing.
- I4: Yeah, the town is trying to encourage, we want to be sort of, lessen our carbon imprint on the earth as a whole and they're trying to encourage people to do that.

Q) What's motivating you and what's motivating the town to make all those changes?

- I4: I think you've gotta respect the earth! You can't keep taking from it, you've gotta put something back and it's not an endless resource...
- I3: It's like water, you might not always have it!

- I4: You can't do it to your own paddock, you've got to take care of it. And I generally like to live in a place that's got natural things. And we've got children, grandchildren... we have the future.
- I3: That's what I was going to say, grandchildren.
- I4: What are they going to say? "Look at what you've done to the earth, you've destroyed it, look at the climatic conditions we're having because you just haven't taken the time to be responsible."
- I3: The other thing too, looking at how things are packaged, there's a lot of plastic containers then they wrap it in plastic... it could be done so much better and have like recycled bags that you put the fruit in and re-use them because that takes a lot to break down. So we have now too they're doing away from plastic bags. Now they have re-usable bags, say you buy them for a dollar but they've got two handles, and they'll last years and years. So a lot of the shops now are saying no to plastic bags. And if you have to get a bag they charge you a dollar per bag.

Interview 6/2 – 22:45

I1: Female; Age 52; Health Administration; Hartland, WI

I2: Male; Early 20's (?); N/A; Hartland, WI

Q) Do you personally do anything to reduce your impacts on the earth?

- I2: Recycle
- I1: We do that's true. That's probably... I mean we try to watch our water conservation at home as well so those are probably the big ones.
- I2: In the college we do tray-less dining, I don't know, it says it reduces the carbon footprint I guess, but I don't know why.

Q) What motivates you to take these actions?

- I1: Again, I think it's important that we try to do what we can. And it is a small part but we try to do what we can.
- I2: So future generations can enjoy all this as well.

Interview 7/2 – 25:55

I1: Male; Age 50; TV Director; Boston, MA

I2: Male, Age 13; Student; Boston, MA

Q) Do you personally do anything to reduce your impacts on the earth?

- I1: Ever seen me turn a light off in the house? (to son)
- I2: Yeah, all day every day!
- I1: Conserve water in every possible way, conserve fuel in every possible, recycle everything that doesn't walk out of the house on its' own... I'd say we're pretty good except we have to travel and those are things you can't avoid... We've done things around the house to make sure it's highly efficient, we did the attic, storm doors, the house is insulated...

Q) What motivates you to take these actions?

- I1: What do I always say when you leave the light on? Who do I say is going to come after you?
- I2: Uh, oh, the polar bear!
- I1: The polar bear's going to come after you, you've gotta protect the environment so that he's got it. I don't know why it's happening, I have an idea why it's happening but that's a political conversation. That glacier's going to be gone soon. They're all going to be gone. And I think they're valuable, so that's why I do it, to protect the environment.

Interview 8/2 – 33:13

I1: Male; Age 68; Retired; UK

I2: Female; Age 67; Retired; UK

Q) Do you personally do anything to reduce your impacts on the earth?

- I1: What do we do?

- I2: I consciously try to save water.
- I1: We do. I don't water the grass like I used to, just let nature take over, it goes brown but it'll recover.
- I2: But even just simple things like turning off the tap when you're cleaning your teeth, we're trying to do more of that, use the washing machine less, rather than do 2 or 3 small loads do one big one, that's the main thing we can do.
- I1: We drive a diesel car at home with low emissions, we chose one with low emissions...

Q) What motivates you to take these actions?

- I1: Well just to make sure we have a planet worth living in. For the future, really... We owe it to our families and generations...
- I2: We're in a small country that has water, we're surrounded by it but we don't have desalination or anything like that. I've heard of some of the countries in Africa where they have to carry their water 2 miles or something and it makes you think about, we can just turn the tap...
- I1: We're more conscious of waste than we used to be. We recycle a lot more than we used to, we segregate paper from plastic...
- I2: As a country they're doing that, we also have compost bins to use on the gardens.
- I1: A lot of the commercial compost is based on peat, while it's available we try to not use it because it takes thousands and thousands of years to replace itself, so using more renewable resources.

Interview 9/3 – 0:00

I: Male; Age 60; Structural Engineer; Livonia, MI

Q) Do you personally do anything to reduce your impacts on the earth?

- I1: We are members of the Sierra Club, we definitely are considering high mileage vehicles...

Q) What motivates you to take these actions?

- I1: Saving fuel because it can increase greenhouse gases and I don't want that because it makes climate change worse

Interview 10/3 – 4:45

I1: Male; Age 28; Art Director for a Toy Company; San Ramon, CA

I2: Female; Age 29; N/A; San Ramon, CA

Q) Do you personally do anything to reduce your impacts on the earth?

- I2: yeah, I mean we recycle, we try to re-use a lot of...
- I1: Yeah, we carry our own grocery bags to the store, we're not that good about energy consumption I guess...
- I2: We're driving across country so that's probably not the greatest...
- I1: I don't know, we're aware of it and I think people our age, like 28, are a little more conscious about it so we might be more conscious of it than other people but we don't do anything above and beyond, we're just more conscious of it so... I think we're reasonable enough to know what's good or what's bad.

Q) What motivates you to take these actions?

- I2: Just thinking about future generations.
- I1: We've seen... those discovery things like Planet Earth, I think those are pretty powerful and cool to show that we could actually be destroying stuff.

Interview 11/3 – 0:00

I1: Female; Age 39; Teacher; Elkin, NC

I1: Female; Age 12; Student; Sammamish, WA

Q) Do you personally do anything to reduce your impacts on the earth?

- I2: Recycle, turn off lights, drive less, don't really cruise through town any more...
- I1: Carpool...
- I2: Walk places, use fluorescent light bulbs.

Q) What motivates you to take these actions?

- I2: Part of it is we care, some people don't. I mean we live it, might as well enjoy it...
- I1: It's the right thing to do. A little work, big impact.

Interview 12/3 – 14:40

I: Male; Age 45; Security; Kennewick, WA

Q) Do you personally do anything to reduce your impacts on the earth?

- We recycle just about everything we can.

Q) What motivates you to take these actions?

- Because my wife told me to! She wants to help the environment as much as she can, whatever they take at recycling we bring in.

Interview 13/1 – 0:00

I1: Male; Age 35; Pharmacist; Snoqualmie, WA

I2: Female; Age 35; N/A; Snoqualmie, WA

Q) Do you personally do anything to reduce your impacts on the earth?

- I2: We ride the bus to work every day, recycle a lot...
- I1: Try to walk to the store and other places when we need to. We've chosen a place to live where we can walk to a lot of places so you don't have to use the car. That was one of the factors to choosing that place.

Q) What motivates you to take these actions?

- I1: Worries over climate change would be one factor it's also nice not to drive in traffic, parking fees, maintenance on the car, all play into it