Northern Cheyenne Climate Change and Drought Planning

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Northern Cheyenne Ontology

- What it means to be human, a good relative.
- We are on this earth to learn and practice these.
- We are spirits having a human experience.
- Kinship-based paradigm, we are a part of nature, not apart from or above it.

Social Vulnerability

- "We are not vulnerable, we are targeted." <u>It is by design</u>.
 - Past and current Settler Colonialism, this work cannot be understood without this.
- Despite this, it is critical to know: We exist outside, beyond, without the settler state working from this is what forms our reality, our actions, practices and being. <u>We are not victims in need of saving</u>.

Social Vulnerability

- So according to western metrics of social vulnerability, the short answer is yes.
- Out nation has been intentionally destabilized since the 1800s
- However, we rely upon our own "metrics" e.g. collective land base, being on the land, family, harvesting, storywork (Archibald), speaking our language, being in respectful relation with all our relatives

So how does this unfold in climate change planning?

- We collected our own data, according to our axiologies and methodologies through community meetings and survey. It was done by us, for us.
- Also utilized these sources:

 Comprehensive NCT Report
 Tribal GIS data comprehensive GIS database
 NRCS
 USGS

Quick Word on Partnerships

- Common outsider attitude: tribal data is free and available to anyone who wants it.
- Creating and implementing research and data agreements
- We are sovereign nations

IRMP/ARMP Community Survey

Int. A local

- NCT IRMP (1989) update the vision statement
- ARMP Develop and implement an AMRP
- Community voice is key

Developed and collected a community survey:

 IRMP/ARMP Advisory Group
 Draft questions
 Focus Groups
 Final survey

IRMP/ARMP Community Survey

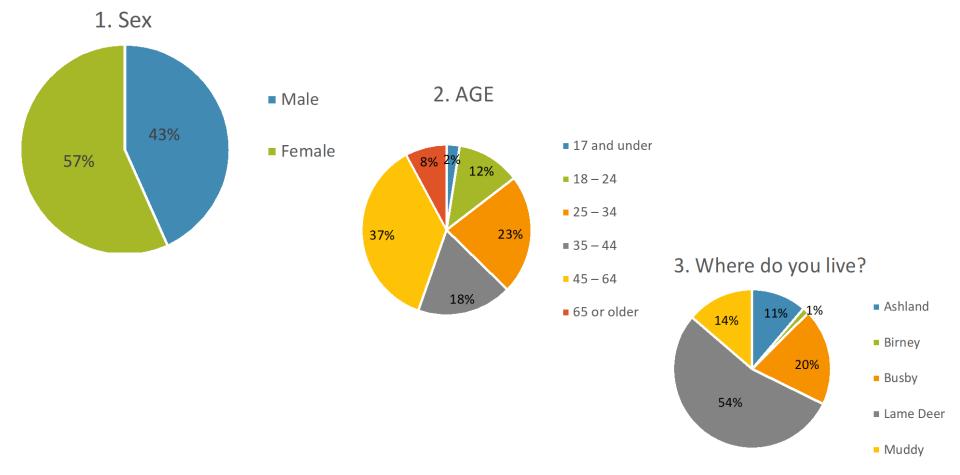
- Survey distribution/recruitment:
 - o September 2016-February 2017
 - Paper copies: Surveys & drop boxes posted in Lame Deer and mailings
 - Online (survey monkey) posted physical copies of link around community, Facebook and website
 - o District & other community meetings and events
- Asked about how to best manage Tribe's resources and how to plan for climate change
- Multiple choice, ranking, rating, and short answer questions

IRMP/ARMP Community Survey

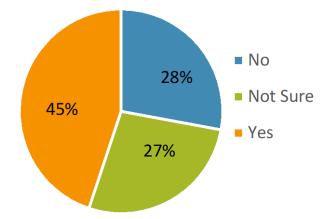
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- Incentive/gratitude: 20 \$100 Visa Gift Cards
- Received 366 surveys

Survey Demographics



16. Have you experienced and/or witnessed the effects of climate change?

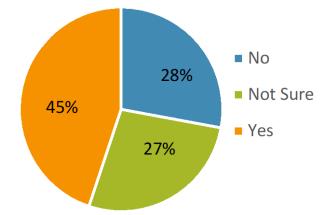


If yes, say more:

- Seeing less wildlife in and around the reservation
- Absence of certain bird and insect species
- Summers seemed warmer and winters seemed shorter, with less snowfall

Climate Change (cont.)

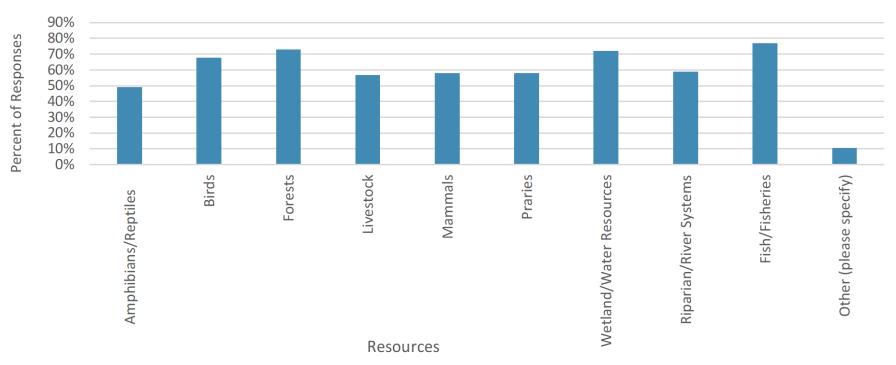
16. Have you experienced and/or witnessed the effects of climate change?



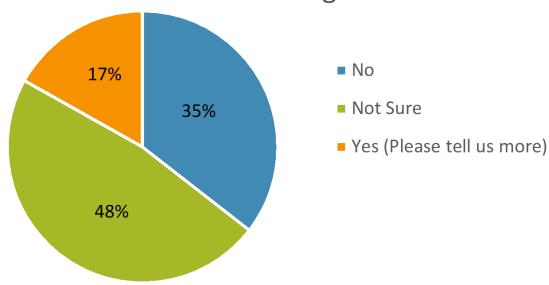
If yes, say more:

- More fires now and creeks and springs are drying up
- Certain plants now seem to be scarce and/or they are not as productive as they have been in the past
- Ceremonial plants have become much harder to find

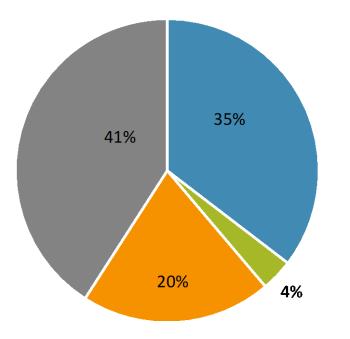
17. What wildlife, plants, and/or habitats do you think are being affected by climate change?



18. Have you changed any of the activities (work, personal, or cultural) that you do and/or do you feel that other tribal members have changed any of the activities that they do because of climate change?



19. Do you have any suggestions or recommendations for how the Tribe should prepare for climate change effects (e.g., conserve water, change hunting season dates, etc.)?



- No, I do not have any suggestions or recommendations
- No, the Tribe should not prepare for climate change effects
- Not Sure
- Yes

Community Recommendations: Preparing for Climate Change

- "Change dates for hunting season, limit hunting due to over-harvest and loss of habitat for wildlife."
- "Climate change is very real, I've seen and felt change here on the homeland. The more we educate our young children the better off they will be in the future."
- "Come up with some sort of climate change plan."

Community Recommendations: Preparing for Climate Change

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- "<u>Conserve water</u>, strengthen food sovereignty, prevent wildfire."
- "Having class or lecture on the climate change matter so that the community is aware and to obtain knowledge."
- Education and climate change. • Have outdoor activities

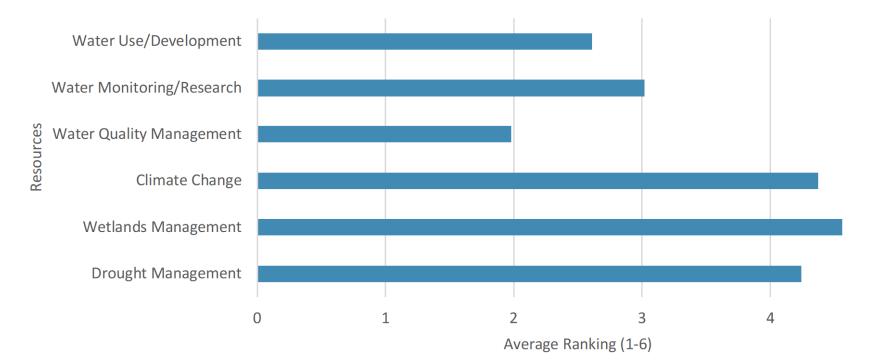
Water & Drought Planning

- 2007 Drought Management Plan
- Requires an update that reflects Northern Cheyenne ontology & axiology • Evident from survey results

Community Views of Water

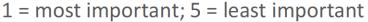
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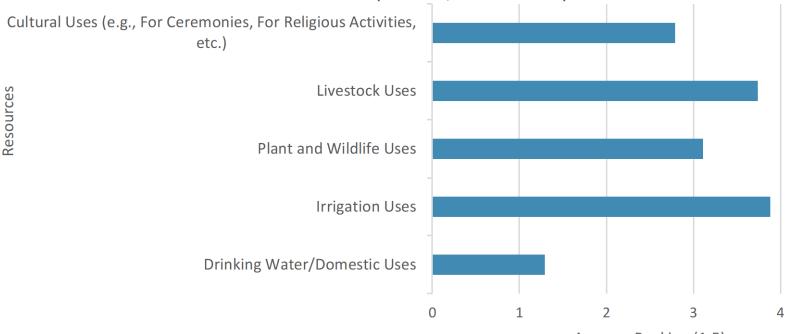
10. Please rank the following water-related issues from most important to least important.



Community Views of Water

9. Please rank the following water uses from most important to least important.





Average Ranking (1-5)

5

My Water Research

• Basic Intro

• Results

• Implications for water and drought planning

Nea'ešem

Questions/comments?