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## Variables

1. TribeName: string; Federal Registry tribe name from with stripped of Unicode characters and “previously known as”
2. FederalRegistry: string; tribe name verbatim from Federal Registry (2021).
3. State: string; state of tribe
4. AlaskaDummy: binary indicator for Alaskan tribes
5. UniqueIDNum: int; unique identifier for each tribe
6. StateOverlapDummy: binary; indicates whether a tribe spans multiple states
7. StateOverlapDetail: string; indicates which states a tribe spans across if StateOverlapDummy==1
8. StateOverlapnum: int; records the number of states if StateOverlapDummy==1
9. binary\_action: binary; whether the tribe took any action regarding climate change
10. action\_plan\_other: binary;
11. action\_assess: binary; whether a tribe released an assessment of climate change or environmental issues.
12. action\_grant\_g: binary; whether a tribe granted money for climate change/environmental purposes
13. action\_grant\_r: binary; whether a tribe received a grant from any of the entities listed below:
14. action\_legal: categorical; whether a tribe took non-litigation legal action in regards to climate change/environmental policy.
15. action\_conf\_attend: binary; whether a tribe attended a conference (includes summits)
16. action\_meet\_attend: binary; whether a tribe attended a meeting (includes video chats)
17. action\_wrkshp\_attend: binary; whether a tribe attended a workshop (includes training sessions, video workshops)
18. action\_conf\_host: binary; whether a tribe hosted a conference (includes summits)
19. action\_meet\_host: binary; whether a tribe hosted a meeting (includes video chats)
20. action\_wrkshp\_host: binary; whether a tribe hosted a workshop (includes training sessions, video workshops)
21. action\_organization: binary; whether a tribe is a member of an organization, group, treaty, incorporation, or otherwise.
22. action\_orgmember\_name: string; the name of the organization(s) that a tribe is a member of.

23. action\_outreach: binary; whether a tribe took actions to education, inform, etc. to the community.
24. action\_program: binary; whether a tribal initiated, or had initiated at the behest, a program or project that deals with the effects of climate change.
25. action\_political: binary; any political action the tribe undertook.
26. action\_grant\_p: binary; whether the tribe applied for any grants.
27. action\_resolution\_nonpolicy: binary; whether a tribe released any non-policy resolutions
28. action\_resolution\_policy: binary; whether a tribe released any policy-making resolutions
29. action\_resolution: binary; whether a tribe released any resolution (non-policy, policy, or unknown)
30. action\_plan\_adapt: binary; whether a tribe released an adaption plan for climate change or environmental issues
31. action\_plan\_hazard: binary; whether a tribe released an hazard mitigation plan.
32. action\_plan\_community: binary; whether a tribe released a community plan.
33. Low Cost: binary; low-cost actions.
34. High Cost: binary; high-cost actions.
35. Directory Name: string; directory in which coded links can be found.
36. cc0 through cc9: string; records the findings from the respective cc links;
  - a. na is not applicable (no information regarding climate change policy)
  - b. miss means the link-file is missing
  - c. br means that the link-file is broken, unreadable, or otherwise corrupted
  - d. a link-file is a direct repeat of another link-file for the same tribe when ``cc#'' is recorded; the findings from the link-file indicated in the cell also apply to the cell.
  - e. see Recording Findings section for further details.
37. cc\_all: string; combines the string variables from cc0 to cc9 into single cell.
38. cc\_notes: string; anything note-worthy about any of the cc links

## Recorded Findings

1. Recorded findings refers to the c0-c9 string variables (ie, the link-file specific variables). The different findings are separated by semi-colons (“;”). The more detailed version of the coding (including the rationale behind subjective determinations) can be found in Native Environment Data/Documents/Detailed Coding Guide.docx.
2. Generic Link Codes
  - a. br: broken link/file
  - b. miss: missing file
  - c. na: not applicable

- i. na (health program): common document that looks at health but isn't related to cc
- ii. na (Warner): there's a paper that pops up all the time by Warner
- iii. na (directory): directories of names for environmental departments are common and coded as this
- iv. cc#/env#/gw#: repeated link; the entered cc/gw/env is the record of first occurrence

### 3. plans

- a. Adaption: plans that are titled or include in the title "adaption"; documents referring to actions taken as a result of adaption plans; adaption plans for a tribe conducted by an organization the target tribe is a member of; adaption plans created for a tribe by an outside entity that the tribe has hired; tribes receiving grants for the creation of adoptions plans are coded as having adaption plans. This does **not** include adaption plans created by outside entities who do not mention working with a tribe; adaption plans conducted about a region or non-tribal municipality/government entity that do not mention the tribe; or if the tribe receives a grant for traveling to an adaption planning workshop (this coding choice is due to uncertainty: a workshop may mean the process of crafting an adaption plan has begun or it may mean that the tribe is considering the creation of an adaption plan, but there's no guarantee the adaption plan will come to fruition.
- b. Hazard: plans titled or including in title "hazard mitigation plans", documents referring to actions taken as a result of hazard mitigation plans,
- c. Community: community-based plans for economic, cultural, and climate change policies and information. These must be directly authored by the tribe *or* authored by an non-tribal entity directly sponsored by the tribe. This does **not** include plans authored by an organization, regardless of if the tribe is a member, unless explicitly stated as "[Tribe Community: Development Plan]".
- d. other: includes economic plans, health plans relating to climate change health problems, housing plans; also includes plans similar to community plans authored by organizations or non-tribe-specific entities.

### 4. outreach: whether a tribe took actions to education, inform, etc. to the community

- a. includes internship programs, after-school programs, tribal newsletters; does *not* include individual interviews, op-eds, YouTube series, podcasts conducted by non-tribal organizations.

### 5. relocation: is the tribe relocating or already relocated due to climate change; does not include potential relocation

### 6. potential\_relocation: include studies done re: costs/feasibility of relocation

### 7. assess: whether a tribe released an assessment of climate change or environmental issues; does not include assessments conducted by the government, NGOs, or universities that were conducted without request and/or substantial involvement of the tribe(s) included in study; does include assessments carried out by NGOs/universities at the behest of tribes; does include assessments carried out by organizations that a tribe is a member of

### 8. grants

- a. grants\_g: whether a tribe granted money for climate change/environmental purposes

- i. grants\_g--unknown: granted to unknown entity
  - ii. grants\_g--uni: granted to university research
  - iii. grant\_g--NGO: granted to other NGO
- b. grant\_r: whether a tribe received money/grant
  - i. grant\_r--unknown: unknown grantor
  - ii. grant\_r--fedgov: federal government grantor
  - iii. grant\_r--stategov: state government grantor
  - iv. grant\_r--localgov: local government grantor
  - v. grant\_r--univ: university grantor
  - vi. grant\_r--ngo: NGO grantor
- c. grant\_p: the tribe proposed or submitted a proposal for funding
  - i. grant\_p--unknown: did not specify to whom it was proposed
  - ii. grant\_p--fedgov: proposed to federal government
  - iii. grant\_p--stategov: proposed to state government
  - iv. grant\_p--localgov: proposed to local government
  - v. grant\_p--univ: proposed to university
  - vi. grant\_p--ngo: proposed to NGO
- 9. legal: whether a tribe took a non-litigation legal action in regards to climate change
  - a. legal: unknown action
  - b. legal--amicus: amicus brief filing
  - c. legal--hearings (federal house/senate): hearings conducted before U.S. House or Senate
  - d. legal--hearings (state house/senate): hearings conducted at state house or senate level
  - e. legal--hearings (local): hearings conducted at local gov level
  - f. legal--noticecomment: bureaucratic notice-and-comment
  - g. legal--other: any other legal action
- 10. Meetings, Conferences, and Workshops: whether a tribe attended or hosted a meeting, workshop, or conference; coded as attended if any member of a tribe attended the event; coded as hosted if the tribe's organization hosted the event, the event was physically located on tribal property, the tribe was solo-host, or the tribe was joint host with another entity; invitations
  - a. meeting\_attend: attending meeting
  - b. meeting\_host: hosting meeting
  - c. wrksp\_attend: attending workshop, webinar, or training sessions

- d. wrksp\_host
- e. conferences\_attend
- f. conferences\_host

11. organization: records whether the tribe is part of an organization, treaty, association, etc. The format is ``organization (full org name)'' and the running list of organizations is shown in the Organizations section of this document. No abbreviations are used to refer to organizations.

12. Political: whether a tribe undertook any political action.

- a. political--petition: whether the tribe circulated and/or endorsed a petition
- b. political--protest/rally: coder discretion--if news coverage interviewed a single member of a tribe involved in a protest/rally, but there was no other mention of tribal involvement, then *not* coded as protest/rally; if the tribal leaders spoke to the news about an event, it is coded as protest/rally; if it was a Big Event, such as a protest of the Keystone Pipeline, even a single tribal member mentioned in an interview is coded as protest/rally, provided that the tribe mentioned is one of the tribes involved in anti-Keystone Pipeline activity, as noted by existing knowledge (ie, MT, NE, SD as directly impacted and highly likely to have organized/endorsed tribal political protest/rally).
- c. political--lobby: *does not* include governmental requests for tribal consultation; does include mentions of tribal leaders who have ``encouraged'', ``sent letters'', ``or otherwise contacted government officials; does include mentions of ``substantial involvement'' with government[al] officials.

13. programs: whether tribe sponsored programs re: climate change; program, project same here; does include programs (like solar panel installation) conducted by private enterprise on behalf of/for a tribe; importantly, the scope of the program is not reflected in this coding.

- a. programs--*specific type*: specific program purpose if not listed below
- b. programs: if no subtype, unknown subtype (indicated typically by grants for "climate change-related programs")
- c. programs--energy: general energy programs; includes non-residential energy-efficiency programs
- d. programs--energy (water): water/hydroelectric programs
- e. programs--energy (solar): solar programs; includes solar assessments
- f. program--air: air monitoring, standards, other programs related to air quality
- g. program--water: watershed, flooding, or water monitoring
- h. program--grassforest: grassland, forest, prairie, and other non-water/wetlands programs; wetlands and water programs constitute separate categories due to the different sources of funding, requirements, and systematic differences between the types of tribes implementing programs in each area
- i. program--waste: recycling, waste reduction, waste processing, hazardous waste management; does not include hazard mitigation plans

- j. program--monitor: assorted programs re: monitoring that are not specifically air, energy, or water *or* are monitoring overlapping areas
  - k. program--restoration: general restoration that is not included in wildlife, forestry, fish, etc
  - l. program--seeds: related to seed propagation *or* seed bank
  - m. program--garden: community gardens, small-scale residential agriculture programs
  - n. program--wildlife: re-population, reintroduction, invasive species, refuge
  - o. program--fire: burning, fire prevention, fire consequences
  - p. program--fish: hatcheries, fish farms, fish monitoring, preservation of fish habitat
  - q. program--house: green construction *or* individual-level home energy-saving strategies
14. resolutions: whether a tribe took action in the form of a resolution
- a. resolution: an unknown type of resolution
  - b. resolution\_nonpolicy: resolutions that do not create policy or regulations
  - c. resolution\_policy: resolutions that create/affect policy, regulations, or formal governmental actions
15. study: participating, conducting, sponsoring, or otherwise in a research study; also includes research studies conducted by organizations that a tribe is a member of. Some studies are common enough to receive their own designation.
- a. study--Tribal Climate Change Efforts in AZ and NM (2010 Dec.)
  - b. study--Tribal Energy System Vulnerabilities to Climate Change and Extreme Weather
  - c. study--Water and Tribes Initiative (2018)
  - d. study: unknown researcher/institute
  - e. study--uni: university-conducted
  - f. study--fed: conducted by federal gov.
  - g. study--state: conducted by state gov.
  - h. study--NGO: conducted by NGO
  - i. study--tribe: conducted by tribe

## List of Organizations

1. The list of organizations I included in the cc0-cc9 and cc\_all variables is included below. All the organizations are in full-name and not abbreviations.
2. Affiliated Tribes of Northwest Indians
3. Alaskan Tribes
4. Alliance of Colonial Era Tribes
5. Bering Sea Alliance

6. Bering Strait Region
7. Bristol Bay Native Association
8. California Association of Tribal Governments
9. Central Council of the Tlingit and Haida Indian Tribes of Alaska
10. Chugach Regional Resources Commission
11. Climate Adaption Science Center
12. Columbia River Basin Tribes
13. Columbia River Inter-Tribal Fish Commission
14. Council of Athabascan Tribal Governments
15. Coachella Valley Association of Governments
16. Glen Canyon Dam Adaption Plan Management Program
17. Great Basin Landscape Conservation Cooperative
18. Great Lakes Indian Fish & Wildlife Commission
19. Great LCC
20. Great Plains Tribal Water Alliance
21. Great Sioux Nation
22. Gwich'in Steering Committee
23. Haudenosaunee Confederacy
24. Hinthil Environmental Resources Consortium
25. ICLEI USA–Local Governments for Sustainability
26. Ihanktonwan Treaty Council
27. Indian Country Energy and Infrastructure Working Group
28. Intertribal Climate Consortium
29. Intertribal Council of Michigan
30. Intertribal COUP
31. Intertribal Sinkyone Wilderness Council
32. Kake Climate Partnership
33. Kawerak, Inc.
34. Kodiak Area Native Association
35. Kokipansi
36. LANL Trustee Council

37. Lomakatsi Restoration program
38. Middle Kuskokwim
39. National Tribal Air Association
40. Native American Environmental Protection Coalition
41. Native American Heritage Commission
42. Native Land Conservancy
43. Native Nations
44. Newhalen Village and Village of Iliamna
45. Nome Eskimo Community
46. Northeast Indigenous Climate Resilience Network
47. Northwest Indian Fisheries Commission
48. NW CSC - Columbia River Basin Tribes
49. Oceti Sakowin Power Authority
50. Oklahoma Kansas Tribal Coalition to Develop Climate Resilience
51. Pacific Northwest Tribal Climate Change Network
52. Rio Grande Cutthroat Conservation Team
53. San Luis Rey Indian Water Authority
54. Siskiyou Prescribed Burn Association
55. Skagit Climate Science Consortium
56. South Central SASC
57. Southeast Alaska Tribal Oceanic Research
58. Southwest Climate Change Initiative
59. Ten Tribes Partnership
60. The Great Lakes Indian Fish and Wildlife Commission
61. Thunder Valley Community Development Corporation
62. Treaty of Olympia Tribes
63. Tribal Air Resource Journal
64. Tribal Environmental Coalition: Prince of Wales Island
65. Tribal Nations
66. Two Row Wampum
67. United South and Eastern Tribes Inc.



- 68. Upper Columbia United Tribes
- 69. Upper Kuskokwim
- 70. Upper Snake River
- 71. Wabanaki Tribal Nations
- 72. We Are Still In
- 73. Wind River Inter-Tribal Council

## Document Information

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