United States
Department
of Agriculture
NIFA

TEDx Bozeman
BURN

Foraging for Native Foods and Medicines.

Fort Belknap Community Garden Before….

And…

….After!

Growing...

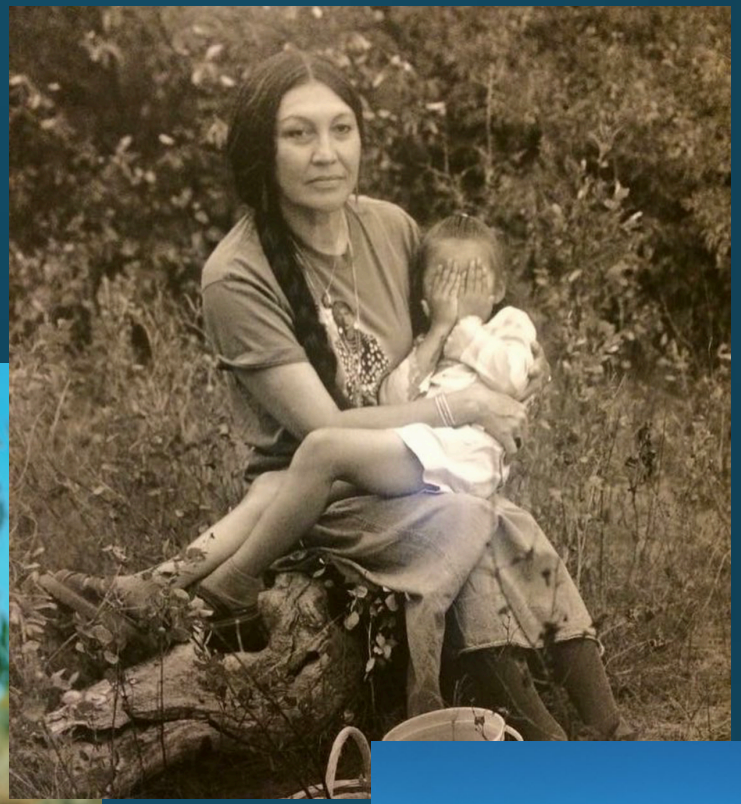
...in Prayer...

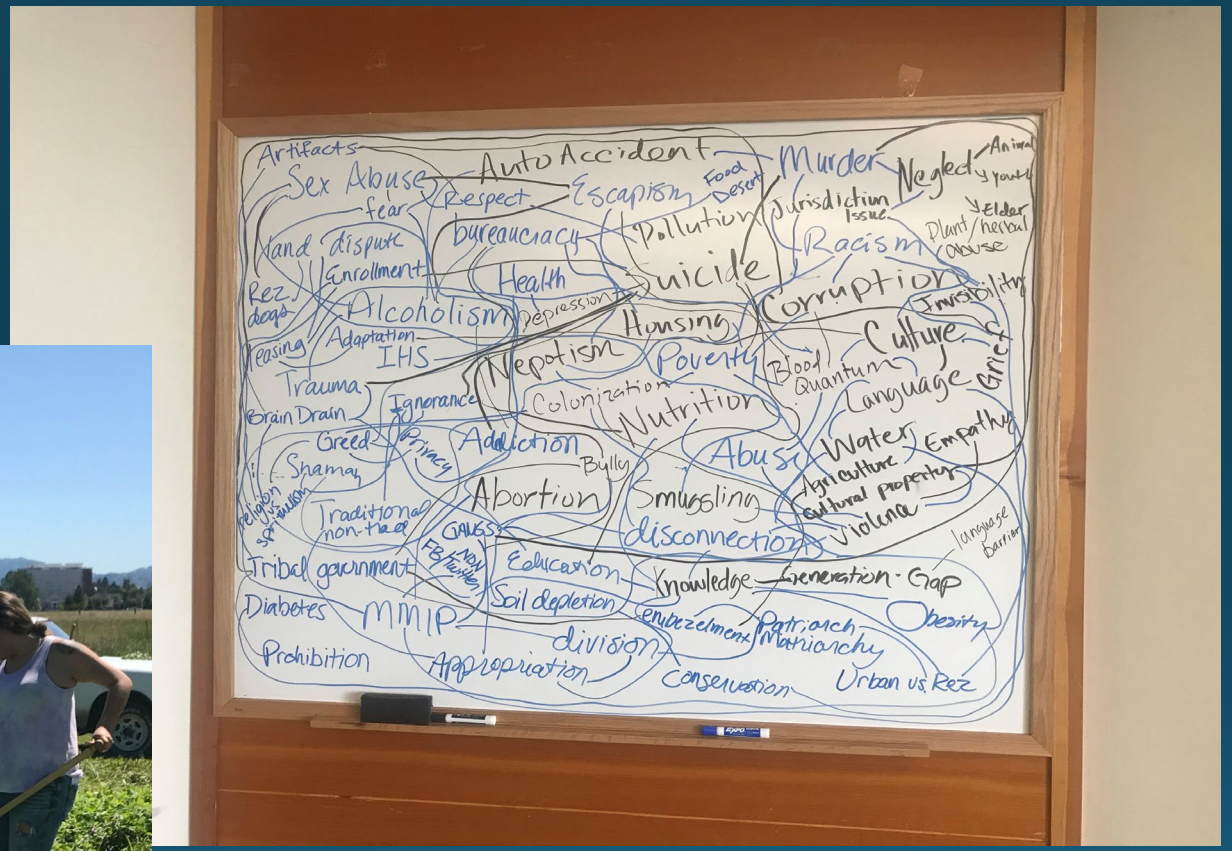
...with the land.

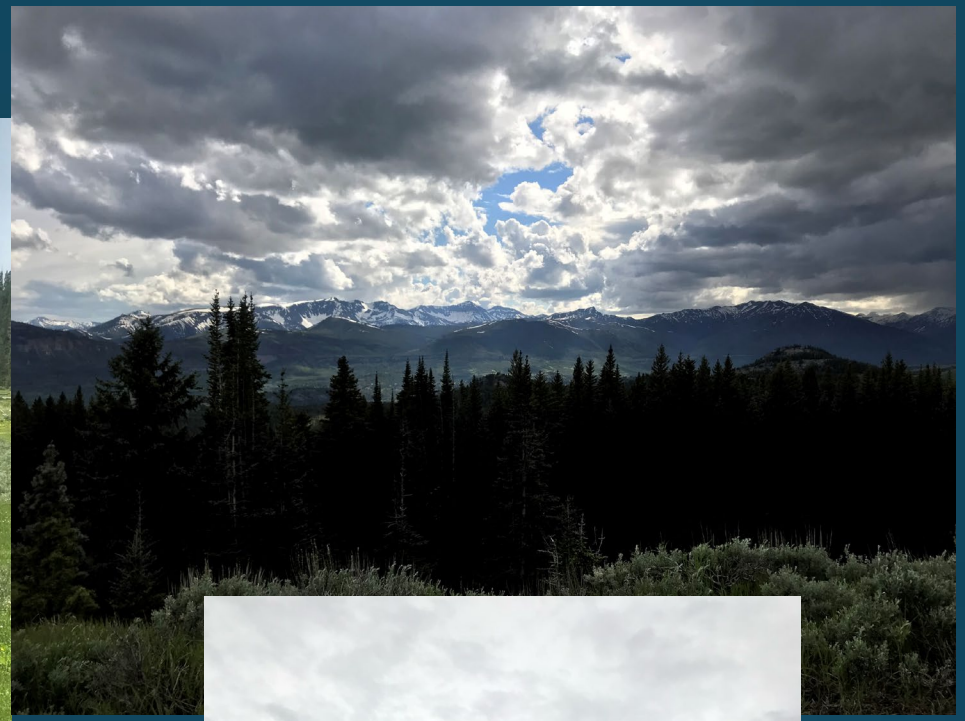
New friends

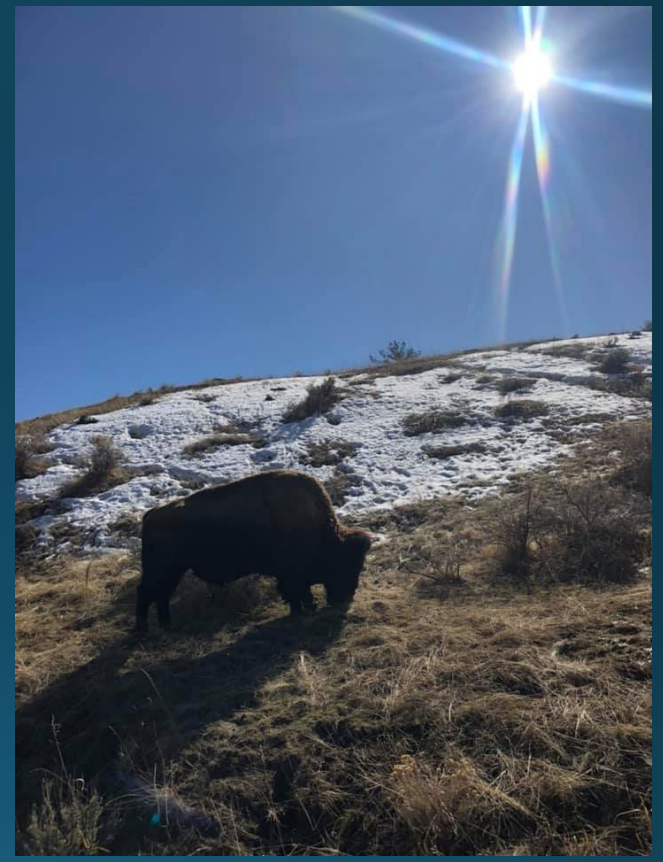
New learning.

Good
VIBES

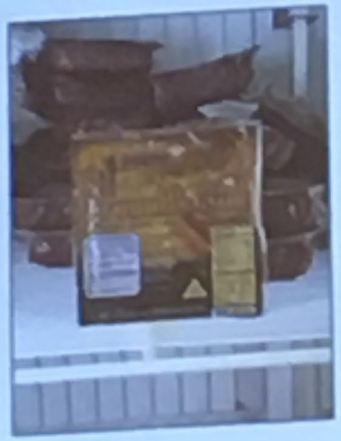


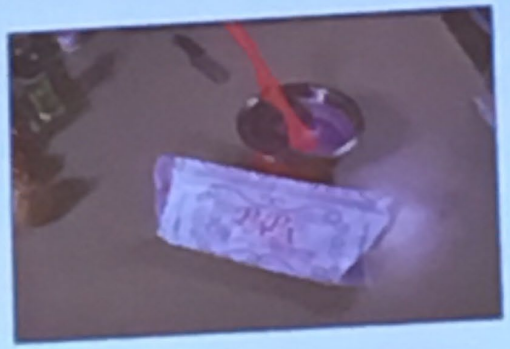

Artifacts
Sex Abuse
Auto Accident
Murder
Neglect
Animal
youth
Respect
Escapism
Food Desert
Jurisdiction Issue
Elder
fear
bureaucracy
Pollution
Racism
Plant/herbal abuse
land
dispute
Enrollment
Health
Suicide
Corruption
Invisibility
Rez dogs
Alcoholism
Depression
Housing
Culture
Leasing
Adaptation
IHS
Nepotism
Poverty
Blood Quantum
Grief
Trauma
Ignorance
Colonization
Nutrition
Language
Brain Drain
Greed
Privacy
Addiction
Abuse
Water
Empathy
Shaman
Bully
Agriculture
Cultural property
Abortion
Smuggling
Violence
Traditional non-trad
GAUSS
disconnection
language barrier
Tribal government
Education
Knowledge
Generation - Gap
Soil depletion
Diabetes
MMIP
embezelment
Patriarch
Mathiarchy
Obesity
division
Prohibition
Appropriation
Conservation
Urban vs. Rez

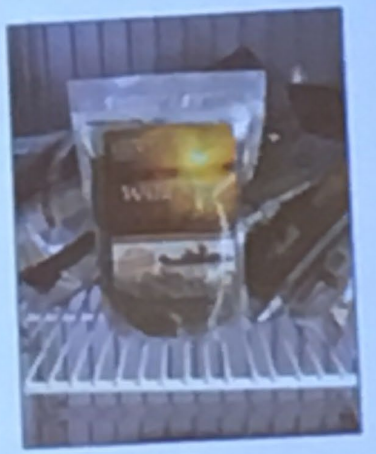


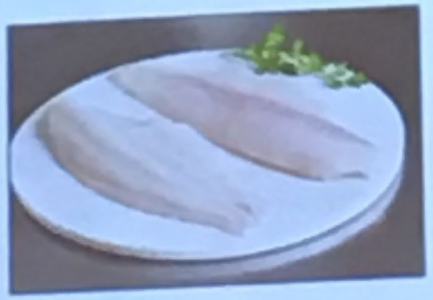


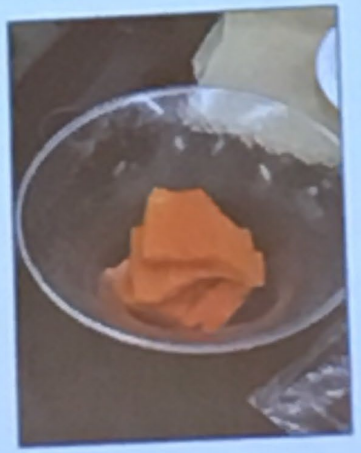
Traditional Foods since 2015











PATHS

Pathways to Agriculture and Native Foods Tribal Health Sovereignty

MONTANA STATE UNIVERSITY
Mountains & Minds

Introduction

To address complex issues of food, health, agriculture on reservations, we (Baker, Dratz, Dunkel, Hunts, Sands) designed a 3-phase process of Western culture scientists exchanging/learning about Native Science and reservation issues while inspiring young tribal college students about the interconnections of these 2 knowledge bases.

Hypothesis Tested

Tribal college students interested in food, nutrition health, consumer issues can successfully engage with senior scientists and with their own reservation community to help solve wicked problems on their reservations.

Materials and Methods

- National search for tribal college interns
- Peer Refereed literature searches
- CITI training
- **IRB Completed at MSU; Blackfeet, Little Big Horn College; Navajo; Shoshone Bann**

Results

8 research projects completed by 2 cohorts, 4 each, including:

- tribal member perceptions about their own buffalo herd;
- Historical uses of ancient grains;
- Lab study underway on glycemic index of ancient potato variety.

Huckleberry Gold potato planted in 15 locations on 5 reservations.

Cohort #1 cullmlinating experience was presenting research to policy makers in D.C. at USDA NIFA, USDA Office of Tribal Relations; select members of Congress and Senate;.For cohort #2 presenting research at national Native Foods Conference at Mystic Lake, MN.

https://www.novinite.com/articles/193099/Successful+Restoration+of+the+Population+of+the+European+Bison+in+the+Eastern+Rhodopes

Tribal College students engage with MSU scientists, generate their own hypotheses, then test their hypotheses with research on their Reservations in collaboration with their community.

Summary/Conclusions

Considerable learning took place on the part of both the MSU scientists and the tribal college students.

Continue this program with these 3 stages.

Stage 1. 6-week summer on-campus residency with students exposed to wide variety of lab/field experiences, field trips to local reservations, observe successful food sovereignty projects in action..

Stage 2. an entire academic year with students earning monthly stipends while formulating their own research project with support of faculty/ their own Native community.

Stage 3. summer session when students implemented their research projects and presented research to policy makers in D.C. or at the Native Foods conference in MN.

Recommendations

- Publish research on the model to inspire, engage, listen.
- Obtain funding for the next cohorts
- Develop into sustainable probram.

Acknowledgments

Hiram Larew, ret. USDA NIFAdirector of International Programs.

Literature Cited

Dunkel, F. 2017 Incorporating Cultures' Role in the Food and Agricultural Sciences. 12 Chapters, 324p. Elsevier Publ. Co. (Academic Press), San Diego, CA. with Companion website https://www.elsevier.com/books-and-journals/book-companion/9780128039557 .

D. Antelope; c. Baker; T.B. Rattler; E. Dratz; F. Dunkel; N. Goldtooth; J. Hipp; H. Hunts; W. Old Elk; H. Reed; D. Sanda; T. Stewart; C. Yupe; A. Zvcherman

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