

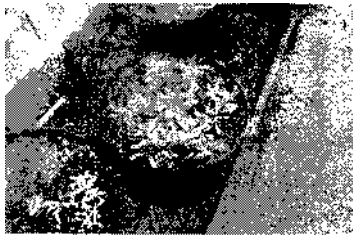
# Sinte Gleska University

## Mid-Year NRE Report

It has been a very productive 6 month period for Sinte Gleska University. Dr. Singh, Lisa Colo, Dave Weisser, and Leland Bordeaux have been involved in the following projects:

### Herb Research and Community Education Project

We have more than 50 types of herbs growing at SGU Ranch field and greenhouse. SGU herbs are ready for transplant at ranch research crop field, and within community gardens to be given away gifts at community gatherings/honorings



#### Sage

To get funded SAGE RESEARCH proposal in collaboration with Iowa State University and South Dakota State University is our one of the many, achievement in the direction of sustainability of NRE

### Hazel Nut Project

6 High School kids in Environmental Science class researched on Hazel Nuts viz. Climate, soil, water, nutrients requirements etc plus production of nuts from trees and then sowed about 80 good quality seeds at different locations in community, all locations will be mapped using GIS/GPS technology; and we paid little amount for this to create strong interest among students.



Dave Weisser eQ greenhouse

The greenhouse project is well on track this Spring 2005! Community members have volunteered over 400 hours in the past 7 months, and new Greenhouse Supervisor. Kim Wilchski, has the greenhouse overflowing with *green* plants and flowers. Despite a few greenhouse diseases and insect infestations, the plants have prevailed and have grown faster than the manual suggestions. So, all our plants are for sale Now! The shockingly fast growth confirms what Dave has said all along about our climate, "it's a good place for greenhouse crops." Another difficulty is a broad assortment of crops, it is an intricate process to manage each crops' needs for fertilizer, pests, diseases. etc. Our biggest concern is whether we will sell everything grown, this is the economic test.



SGU Bison Selenium Project in cooperation with FBCC, NDSU, SBC, and other cohorts has been a continuing research project. SGU kills an average of 20 head per month for Jerky and Meat purposes at SGU student services and sales. (Se) research continues meat evaluation.

### COMMUNITY EDUCATION PROJECTS:

SGU Ranch has been busy this Spring with an estimated enrollment of 800 youth in the past 6 months within Natural Resource/Agricultural Tours and projects. This Spring, the calendar is booked full of projects including Lakota Horse Activities as the favorite treat!

Todd/Mellette County Annual Rancher's Workshop Jan. 20, 2005



SGU Bison served a lunch  
Lunch was delicious and  
People enjoyed something  
"different"



Local extension & USDA programs  
Pulled together to make this  
Workshop a huge stems!



Over 130 fanners and ranchers  
from Todd and Mellette co., SD  
Attended workshops on Weed/pest  
management, stockmanship, and  
financial record keeping. Well attended

### Future Plans

We will continue with our Green House, Bison Selenium Project, Sage research, Community Education Projects, Herbs research, awareness and give away projects, Teaching, Student tours, community garden centers, other science projects (incorporating some contents of NRE), and writing new proposals for promotion of NRE | Science education /Research.



Jeanie Ballinger, ISU, will be organizing and conducting Black-Footed Prairie Dog Research Project at SGU Ranch this Summer 2005 in coordination with RST Prairie Management Office and Natural Resources Department. Jeanie and her daughters will be living at SGU Ranch and assist with daily NRE activities where appropriate as well, including community education and Herb research and gardening tasks. We are looking forward to having them on the Rosebud this Summer.

### VISION FOR SGU AFTER NRE:

Sinte Gleska University has strengthened natural resource and environmental science programs through the participation in NRE Grant. SGU has created many avenues for future financial sustainability and increased student enrollment as well. SGU will have the capacity to offer all courses needed for degree programs either on campus or through distance education opportunities created within the NRE Cohort. Dr. Singh has taken charge at Sinte Gleska and aided the stabilization of a strong chemistry and biology department and enhanced environmental science courses. Continuation of building on the foundation NRE helped SGU construct and learning from our mistakes to provide the best programs possible for tribal students on the Rosebud Reservation and surrounding communities.



Let's have a great meeting  
and luck in the future!  
Lisa and Dr. Singh @ SGU  
greenhouse, April 2005  
605-856-5236 SGU Ranch  
605-856-8 wo Dr. Singh