Roadmap for Today’s Conversation

- Surveying the external landscape
- Potential changes on the federal scene
- Updates on financial status
  - Budget-setting Unicameral session
  - All pistons firing on goals
  - IANR building projects
  - NU Foundation progress/status/priorities
Roadmap for Today’s Conversation

IANR as a leader for UNL and NU growth

- Faculty Growth Plan – Phase I and Lead to Phase II (R. Yoder)
- Nebraska Innovation Campus (D. Duncan)
- Vision for UNL Extension and NU Rural Futures Institute (C. Hibberd)
Roadmap for Today’s Conversation

IANR as a leader for UNL and NU growth

- Global Engagement Implementation (M. Doyle)
Servant Leader
Paying Attention to the Outside World

- Economy still trying to find its feet globally – signs of progress.
- State and local economy still going against the odds – Agriculture-based
- Election did not change the tenor of Washington – still grid-locked but must loosen – attention on Farm Bill, spending cuts to come
- 2012 – year of the “flash drought”
U.S. Drought Monitor

January 8, 2013
Valid 7 a.m. EST

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu/

Released Thursday, January 10, 2013
Author: David Simmeral, Western Regional Climate Center
NE Economy is in an Unprecedented Time

- Value of Ag Production in 2011 of $23.7 billion with net farm income for NE of ~$7.5 billion!
  - Beating the old record in 2008 of $4.1 B and the 10-yr average of $3.3 B

- Generational transfer of land in NE projected at $8.25 billion over the next five years
  - Current asset value of agricultural land = $110 billion
  - Current annual rates of turnover being about 1.5% per year ($110 bi. X 1.5% per year X 5 years = $8.25
<table>
<thead>
<tr>
<th>Nearby Futures</th>
<th>Weekly Change</th>
<th>Friday's Close</th>
<th>Year Ago</th>
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<tr>
<td>Corn</td>
<td>+.28½</td>
<td>7.08⅞</td>
<td>6.51½</td>
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<tr>
<td>Soybeans</td>
<td>+.35¾</td>
<td>14.24⅞</td>
<td>11.97½</td>
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<tr>
<td>Wheat</td>
<td>+.07½</td>
<td>7.54⅞</td>
<td>6.41</td>
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<tr>
<td>Cattle</td>
<td>-2.35</td>
<td>130.60</td>
<td>121.33</td>
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<tr>
<td>Hogs</td>
<td>-2.03</td>
<td>84.20</td>
<td>82.90</td>
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<tr>
<td>Cotton</td>
<td>+.57</td>
<td>75.62</td>
<td>96.87</td>
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<tr>
<td>Milk</td>
<td>+.03</td>
<td>18.06</td>
<td>17.14</td>
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<tr>
<td>Crude Oil</td>
<td>+.47</td>
<td>93.56</td>
<td>103.22</td>
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</table>
Annual Net Farm Income
In Nebraska: 2001-2011

Net Farm Income (Billion $)

Year

Source: ERS/USD
Competition for limited resources

- NE – 47%
- SD – 24%
- IA – 22%

Core corn belt capital gains last decade

275 to 300%

Doug Stark, President and CEO, FCSA
Nebraska = Ag and Natural Resources

- 46,800 farms and ranches + largest aquifer
- 45.5M acres of farmland, largest irrigated state and watershed network
- 1st nationally in commercial red meat production
- 2nd nationally in ethanol production capacity
- 4th nationally in value of ag products sold
- 5th nationally in value of crops
State Funding

- UNL is 20% state funded, one of highest in APLU (IANR is 46%)
- Unicameral now convened in a biennium budget-setting session
- 11 new Senators, new Speaker and Chairs of Appropriations, Agriculture, Education, Natural Resources
- The unobligated ending balance in the Cash Reserve Fund to start the biennium is projected at $442 million
- Receipts are $111 million higher than projected but $195M deficit projected in biennium
State Funding

- Governor proposing eliminating state income tax and potentially the state inheritance tax
- Significant issues with Medicaid expansion ($44M), K-12 state aid, water funding ($50M)
- Must factor in lowered income tax brackets and Build Nebraska Act ("Roads Bill")
NU ‘State-Aided’ Budget

Two Primary Revenue Sources:
(1) State appropriations and (2) Tuition
Five years of flat funding but still relatively better position than many states
State support has not kept pace with inflation

Assumes 3% Higher Education Price Index (HEPI) inflation increases in 2012 and 2013
NU Budget Request...
Commitment to Affordability

- Proposed Affordability Compact
  - With 4.2% increase in base funding -- resident tuition frozen for FY 14/15
  - Net result would be NU increases of $20.9 and $21.8 M in FY 14 and 15

**NET to = $5.8M**
- AGree
- Chicago Council on Global Affairs
- Council on Competitiveness
- SOAR (Supporters of Ag Research)
REPORT TO THE PRESIDENT ON AGRICULTURAL PREPAREDNESS AND THE AGRICULTURE RESEARCH ENTERPRISE

Executive Office of the President
President’s Council of Advisors on Science and Technology

DECEMBER 2012
PCAST recommends the creation of a new innovation ecosystem for agriculture that leverages the best from different parts of the broad U.S. science and technology enterprise, focusing public investment....PCAST calls for a strategic investment that will create the path toward an improved innovation ecosystem for the U.S. heartland, enhancing the economy and harnessing the power of U.S. innovation in science and technology.....

Increase investment by $700 M per year
- Increase AFRI from $265 to $500 M
- Increase NSF basic funding for food and ag from $120 to $250 M
- $180 M in USDA fellowship funding for graduate students and postdocs
- Create six innovation clusters at $150 M per year focused on emerging challenges in ag and food
- Create a permanent scientific advisory committee to advise the USDA Chief Scientist
THE NATIONAL ACADEMIES
Advisers to the Nation on Science, Engineering, and Medicine
BOARD ON AGRICULTURE AND NATURAL RESOURCES

CHAIR
Victor L. Lechtenberg
Acting Executive Vice President for Academic Affairs and Provost
Purdue University

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Director, Agricultural and Analytical Services
Del Monte Foods

Keith L. Belli
Professor and Head, Department of Forestry, Wildlife, and Fisheries
University of Tennessee

Peter J. Bruns
Vice President (Emeritus)
Howard Hughes Medical Institute

Steven T. Buccioni
Professor of Agricultural and Resource Economics
Oregon State University

James C. Carrington
President
Danforth Plant Science Center

Machi F. Dilworth
Director of the Division of Biological Infrastructure (retired)
National Science Foundation

Cutberto Garza
Provost and Dean of Faculties
Boston College

Ronnie D. Green
Vice President, Agriculture and Natural Resources
University of Nebraska

Rosemary R. Haggett
Vice Chancellor for Academic Affairs and Student Success
University of North Texas System

Gene Hugoson
Senior Fellow
Global Initiative for Food Systems Leadership

Bennie L. Osburn
Dean, School of Veterinary Medicine (retired)
University of California, Davis

Philip G. Pardey
Professor of Science and Technology Policy
University of Minnesota

Sally J. Rockey
Deputy Director for Extramural Research
National Institutes of Health

Juliana M. Ruzante
Senior Associate, Food Safety Campaign
Pew Charitable Trusts

James C. Zuiches
Vice Chancellor, Extension, Engagement, and Economic Development (retired)
North Carolina State University

UNIVERSITY OF NEBRASKA - LINCOLN
Progress on 2017 Goals

1) 8th consecutive year of enrollment growth in CASNR (3.7% increase in FY 12)
2) 20% increase in external grants in FY 12 with $91.7 M in research expenditures
3) 6-year graduation rate of 77.6%
4) Increasing tenure-track faculty by 9.8% (36 FTE) with additional 19 planned in phase II.
5) Leading the population and development of phase I of Nebraska Innovation Campus
NU Foundation Update

$1.2 B
$103 M
$250 M+

Brian Hastings
Ann Bruntz
Josh Egley
<table>
<thead>
<tr>
<th>Ann Bruntz</th>
<th>Josh Egley</th>
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</thead>
<tbody>
<tr>
<td>Department of Animal Science</td>
<td>School of Natural Resources</td>
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<tr>
<td>Department of ALEC</td>
<td>Department of Biochemistry</td>
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<tr>
<td>Department of Textiles, Merchandising, and</td>
<td>Department of Food Science &amp; Technology</td>
</tr>
<tr>
<td>Fashion Design (IANR portion)</td>
<td>Department of Nutrition &amp; Health Sciences (IANR</td>
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<tr>
<td>Department of Agricultural Economics</td>
<td>portion)</td>
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<td>Department of CYF Studies (IANR portion)</td>
<td>Department of Biological Systems Engineering</td>
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<td>NCTA</td>
<td>Department of Entomology</td>
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<tr>
<td>Center for Grassland Studies</td>
<td>Department of Plant Pathology</td>
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<tr>
<td>Gudmundsen Sandhills Lab / Barta Brothers</td>
<td>Department of Statistics</td>
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<tr>
<td>High Plains Ag Lab</td>
<td>Daugherty Water for Food Institute (includes</td>
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<td>Rural Futures Institute</td>
<td>Nebraska Water Center)</td>
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<tr>
<td>Nebraska LEAD Program</td>
<td>Center for Plant Science Innovation</td>
</tr>
<tr>
<td>Engler Agribusiness Entrepreneurship Program</td>
<td>Center for Virology</td>
</tr>
</tbody>
</table>

**Joint Responsibility**
- Department of Agronomy & Horticulture
- School of Veterinary Medicine and Biomedical Sciences

**Extension:**
- Ann - West Central & Panhandle Districts
- Josh – Northeast & Southeast Districts
1) Funding for Veterinary Diagnostic Lab
2) Funding for **25 Presidential Chairs** in priority areas – currently 2 with 2 more under development
3) Funding for **Nebraska Innovation Campus** and Enhancements
4) Funding for growth in Nebraska-wide research and extension campus
Veterinary Diagnostic Center Fund Raising

- Goal: $5 million
- Money raised as of today - $200,000+
Campus Master Plan

planbig.unl.edu
East Campus Recreation Center
Holdrege Street
C.Y. Thompson

Get involved in the discussion!
go.unl.edu/cytlibrary
Placement on Campus – May 2013
Research and Extension Sites
Construction Project Report

Panhandle Research and Extension Center
Elliot Building HVAC, Electrical and Life Safety Renovation
• Construction project to upgrade the 43 year old HVAC, electrical and life safety systems in the Elliot Building at Scottsbluff.
• Total Project Cost: $3,750,000

Panhandle Research and Extension Center
High Plains Ag. Lab proposed new Lab/Office building
• A proposed new laboratory and office building at the High Plains Ag. Lab site near Sidney, NE
• Total Project Cost: $500,000
Research and Extension Sites
Construction Project Report

West Central Research and Extension Center
Feeding Study Building
- A new 60’x180’ open sided pole structure for feeding studies using Growsafe brand feeders.
- Total Project Cost: $116,100

West Central Research and Extension Center
Proposed Addition to Snyder Administration Building
- An addition to the northwest wing of the original Snyder Administration Building for faculty and graduate offices.
- Total Project Cost: $411,500
Servant Leaders
2012 NAE4-HA MEMBER RECOGNITION SPECIALITY AWARD - Interactive 4-H Educational Web Site Award (Team)

Shane Potter, Jeff Abele, Kim Bearnes, Tracy Behnken
Heather Borck, Brian Bosshamer, Kathleen Lodl, Tracy Pracheil, Dustin Renken, Barbara Scharf, Lila Tooker, Dave Varner, & Amy Topp
Omtvedt Innovation Award
Bob Klein
Omtvedt Innovation Award
Barry Shull
Omtvedt Innovation Award
Jim Alfano
Omtvedt Innovation Award
Andy Benson, Bob Hutkins, Jens Walter
Omtvedt Innovation Award
National Drought Mitigation Center
IANR Faculty Growth Plan

Ron Yoder
IANR Faculty Growth Plan

• Prioritization process
  – Discussion began at 2011 IANR Leadership retreat at WCREC
  • Identified four key areas for growth in IANR
    – Crops for the Future
    – Animal Systems
    – Food, Nutrition, and Health
    – Resource Stewardship
IANR Faculty Growth Plan

- Discussion continued throughout the Fall of 2011
- Proposed planning process shared at IANR All Hands Meeting – February 10, 2012
- Process finalized and planning initiated – Feb. 21
  - Need the collective insight and input of faculty and units in IANR
- Draft of unit priority plans submitted – March 30
- Review and discussion of unit plans among individual unit administrators and deans – May 17
IANR Faculty Growth Plan

Prioritizing faculty hires

- Unit plan revisions completed – June 1
- Unit plans shared and discussions about team formation – between June 1 and July retreat
- Retreat in Nebraska City – July 24-25
  - Five areas identified for working groups
- Working groups submitted prioritized lists – Sept. 14
- Deans Council developed priority list – Sept. 26
- Announced positions at All Hands Meeting – Oct. 1
Priority Positions Overview

- More than 30 Faculty Positions
- 5 Focus Areas + core positions
Core Positions

• Community Leadership Development
• Advanced Machinery Systems Engineer
  • for Food, Fuel, Water
• Rangeland Ecologist
• Micrometeorologist
• Behavioral / Experimental Economics
Science Literacy
Dean’s Council Liaison: Steve Waller
Unit Head Leads: Kathleen Lodl; Mark Balschweid

• Life Science Education
• Science Literacy Director
• Science Literacy Specialist
Stress Biology
Dean’s Council Liaison: Archie Clutter
Unit Head Leads: Don Adams; Gary Brewer

Plants
- Plant-Arthropod Interactions
- Plant Molecular Physiologist
- Advanced Sensing Systems Scientist/Engineer
- Plant Biotic Stress Biologist
- Plant Virologist
Stress Biology

Dean’s Council Liaison: Archie Clutter
Unit Head Leads: Don Adams; Gary Brewer

Animals

• Animal Stress Physiologist
• Functional Genomics of Stress/ Disease
• Animal Breeding & Genomicist
• Theoretical Quantitative Geneticist

Agroecosystems

• Agrosystems Ecologist (WCREC)
• Quantitative Ecologist
Healthy Humans

Dean’s Council Liaison: Marjorie Kostelnik
Unit Head Leads: Tim Carr; Rolando Flores

Behavioral Studies

• Behavioral Based Epidemiology
• Behavioral Economics and Health Disparities
• Childhood Health Behaviors

Food and Nutrition

• Food Safety Risk Assessment
• Food Lipid Chemistry & Functionality
• Lipid Metabolism & Health
Large Data Sets

Dean’s Council Liaison: Archie Clutter
Unit Head Leads: Paul Black; Steve Kachman

Three positions, each with emphasis at both methodological and field specific levels

• ‘Oomics
• Organismal
• System
Healthy Systems for Agricultural Production and Natural Resources

Dean’s Council Liaison: Ron Yoder
Unit Head Leads: Tala Awada; Roch Gaussoin

**Beef Systems**

- Beef Systems Specialist
- Biosystems Economist
- Forage/Crop Residue Systems Specialist
- Range/Forage Management Ecologist (PHREC)

**High Plains Cropping Systems**

- Dryland Cropping Systems Agronomist (PHREC)
- Water Resource Management Engineer (PHREC)
Filling Priority Positions

Many Searches
- Search committees
- Applicants
- Candidates and interviews

Search Planning Meeting – January 18, 2013
- Meeting with unit head and one or two support staff from each department

Flexibility – Hire the Best
Conducting Searches

We will provide support for the various phases of the hiring process

– Initiating the search
  • Position description
  • Advertising; recruiting; getting the best pool

– Creating the short list
  • Evaluating the pool; checking references; selecting the best applicants

– Hiring the best candidate
  • Conducting interviews; rating candidates; offers/negotiating/hiring
Additional Support

**Coordination:** across functional areas to allow for the sharing of best practices and solutions to challenges

**Frequent Communication:** updates regarding the progress of the hiring process will be sent to this group.

**Weekly review:** of process / progress.
Feedback

• Communication will be very important
  – Between Ag Hall and units
  – Among working groups
  – Among units

• Feedback will be welcome, expected, and helpful.
Great Opportunity

- Strengthen areas within IANR that have potential for further growth
- Make excellent hires
- Prepare for future growth and hires
  - This is the first round
  - Success in this round prepares us for future hires
Momentum building...

Innovation Campus

Dan Duncan
Executive Director
25 Year Vision

• Output of NIC: A continuous transformation of ideas into innovation that positively impacts the world.
  – Physical
    • Two million square feet at full build-out with up to 7,000 people on campus working, living, and playing in uniquely designed buildings of quality construction with amenities.
    • That is 80,000 sq. ft. of building per year.
    • We are attempting to build the processes necessary to make this happen.
Food
Water
Phase I Building Complex
280,000 Square Feet
NIC Funding for Phase I

• $25M from State of NE
  – $10M for the conference center located in the former 4-H Building
  – $15M for the Life Sciences building (new building)
• $15M from Philanthropy (in process)
• Nebraska NOVA
  – $40M match of state and philanthropic funds
  – $10.7M for Phase I infrastructure
  – $15.6M for Effluent System
NIC Development

- Current stages of development:
  - Construction on Phase I buildings starting
    - Construction fence is up
    - Hausmann Construction
      - Contractor for SDL1
    - Kiewitt
      - Contractor at Risk for SDL 2
  - Expected occupancy in late 2013/early 2014
  - Currently working with Archrival to create and roll out the NIC brand
First Corporate Partner

ConAgra Foods
Food you love
Offices at NIC

• Entities currently slated to move to NIC:
  – NIC Administrative Offices
  – NUtech Ventures
  – Industry Relations
  – Global Water for Food Institute
  – Business Accelerator
UNL Research on NIC

• Entities currently slated to move to NIC:
  – High Throughput Phenotyping System
  – ConAgra Tomato Program?
  – Other? Discussions in early stages, Vice Chancellors will start meeting with Faculty soon.
Ways Faculty Can Be Involved at NIC

• Work through your department head and dean to develop proposals for UNL sponsored activity at NIC. (activity requiring UNL funding)

• Explore expanding current relationships with industry partners – funding provided by the partner
  – Contact Dan Duncan

• Want a relationship with a company but don’t know how to start?
  – Contact Dan Duncan, Ryan Anderson and/or David Conrad

• Other – contact Dan Duncan
NIC Keys to Success

• Robust faculty research engine at UNL
• Faculty that want to engage private sector
• Continued recruitment and retention of highly productive faculty
• Student Recruitment
• Continued Legislative and Constituent Support
• Philanthropy
• Keep the Faith
UNL Extension’s Role in the RFI
Chuck Hibberd
January 17, 2013
RFI Mission Statement

- Building upon strengths,
- a culture of innovation and entrepreneurship,
- mobilize the resources and talents,
- action to achieve unique paths to desired futures.
RFI Core Values

- Inclusive
- Opportunistic & resilient
- Transdisciplinary
- Capacity building
- Creative
- All serving
- Reflective & collaborative

- Sustainable
- Bold

Photo Courtesy of SymLabs
Background data

• North Central region economic and community development programs/projects
• Survey of UNL Extension faculty
• Focus groups

Photo courtesy of Caleb Collard
Faculty Survey (306 responses)

<table>
<thead>
<tr>
<th></th>
<th>Now</th>
<th>Next 3-5 years</th>
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<tbody>
<tr>
<td>Extension Educators</td>
<td>28%</td>
<td>51%</td>
</tr>
<tr>
<td>Extension Specialists</td>
<td>27%</td>
<td>47%</td>
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Important Questions

1. How can UNL Extension seamlessly engage with the RFI?

1. What educational programs will UNL Extension deliver that are aligned with the RFI mission?
Extension is uniquely positioned to be a key player

- Network of professionals
- Embedded in rural communities and connected with NU system
- A 4-H program that engages youth
- Facilitate and lead research and education projects that impact communities
- Part of a national Cooperative Extension system
A Seamless and strategic Partnership

• Extension Director in a RFI leadership role
• RFI on Extension’s Action Teams
• Extension faculty as grass roots “eyes and ears”
• Connect with RFI grantees
• Extension as a conduit to all four NU campuses
• Extension faculty contribute to RFI scholarship
• Extension as a testing ground for new ideas
• Meaningful communications at multiple levels
• Linkages to other land-grant universities
New Extension Action Team

Community Vitality Action Team
• Gather expertise
• Facilitate conversation
• Planning and implementation
• Three signature programs
UNL Extension will increase the intersections of ideas and resources resulting in innovation that improves the vitality of rural communities.
Grow Rural Nebraska businesses

1. Support entrepreneurs to develop and/or grow businesses
2. Produce, process, and market local foods and agricultural products
3. Develop agri-tourism and business ventures that bring people to Nebraska
4. Facilitate the transfer of businesses, land and natural resources
Engage Youth & Young Adults In Rural Communities

1. Youth engaged with adults in meaningful leadership experiences
2. Youth-serving partners create learning experiences that increase community connectedness
3. Youth discover viable career choices and gain measurable career/job skills
4. Young adults will own and/or manage more businesses
Create 21st Century Communities
Attract and Retain Young People

1. Engaged leadership that generates more diverse ideas/projects/goals.
2. A larger and better-educated workforce
3. Community infrastructure that supports entrepreneurship & business development.
4. Rural communities that attract and retain young people.
Key Organizational Conversations

- Strong reciprocal connection to the RFI leadership
- Extension’s role with other NU campus programs
- Extension’s organizational culture around Community Vitality work
- New Community Vitality Action Team
- Who is responsible for delivering Extension RFI programming
- Strengthen UNL research capacity
Next steps

• Review the concept paper with IANR and current RFI leadership
• Adobe Connect conversations:
  – 2:30 pm CST, Friday, January 25
  – 3:00 pm CST, Tuesday, January 29
• Comments through February 1
• Revise and resubmit to UNL Extension professionals by February 8
Our look forward

- Mission and core values aligned.
- Contribute new knowledge.
- Catalyze important work in rural Nebraska.
- Innovative engagement of rural people and communities.
- Ready connection with Nebraska’s youth.
- Increase the intersections of ideas and resources resulting in innovation that improves the vitality of rural communities.
Nebraska Exports to the World by Commodity

Source: Office of Trade and Industry Information (OTII), Manufacturing and Services, International Trade Administration, U.S. Department of Commerce.
Office of Global Engagement

S&E journal articles produced, by selected region/country: 1995–2009

Source: National Science Board, Science and Engineering Indicators, 2012
Office of Global Engagement

Brazil
Russia
India
China
Office of Global Engagement

China

Other Activities:
• Xi’an Jiaotong University (Xi’an)
• Northwest Agricultural and Forestry University (Yangling)

http://newsroom.unl.edu/announce/ianrnews/1367/7888
Office of Global Engagement

Brazil

Other Activities:
• **Brazil Scientific Mobility Program**
  • Began in January 2012
  • 61 Brazilian undergraduate students have studied in various programs at UNL.

http://newsroom.unl.edu/announce/ianrnews/1367/7894
Office of Global Engagement

Brazil
Russia
India
China
Turkey
Office of Global Engagement

Areas of Food Security Risk

Food security risk index, 2010

- Rank Country Category
- 1 Afghanistan extreme
- 2 DR Congo extreme
- 3 Burundi extreme
- 4 Eritrea extreme
- 5 Sudan extreme
- 6 Ethiopia extreme
- 7 Angola extreme
- 8 Liberia extreme
- 9 Chad extreme
- 10 Zimbabwe extreme

- Extreme risk
- High risk
- Medium risk
- Low risk
- No data

SOURCE: MAPLECROFT
Other Countries and Regions?

- Research can be very site dependent
- Enable faculty, staff, and students to access needed resources
IANR / CASNR International Agreements
• 55 Active Agreements
• 25 Different Countries
• Move towards agreements with substance
• Agreements that leverage unique capabilities
Office of Global Engagement

International Students: Percent of Student Population

Study Abroad Students: Percent of Student Population

Office of Global Engagement

Short-term Plan (Next 3-6 months)

- Develop an Office Website
  - An information source for all constituencies
  - Study abroad opportunities
  - Funding opportunities

- Highlight on-going international activities
Short-term Plan (Next 3-6 months)

• Data: Develop an IANR database for international activities
  • Identify regional expertise
  • Identify needs and opportunities

• Create an IANR International Advisory Committee
  • Strategic Plan
  • Programs and Services
Office of Global Engagement

Office:
Agricultural Hall Room 313
Phone: (402) 472-5960

Global Engagement Staff:
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mdoyle3@unl.edu

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Ms. Miranda Ducey
mducey3@unl.edu

Thank You