GROWING A HEALTHY FUTURE

All Hands Meeting
October 1, 2012
Nebraska East Union
Roadmap for Today’s Conversation

- Land Grant Celebration
- “Paying attention” to the outside world
- Updates on financial status
  - Current financial resources/portfolio
  - Budget setting process
  - NU Foundation progress/status/priorities
Roadmap for Today’s Conversation

IANR as a leader for UNL and NU growth

- Major initiative updates
  - Life Sciences
  - Daugherty Water for Food
  - Rural Futures Institute
  - Buffett Early Childhood
  - Global Engagement
- Nebraska Innovation Campus
- 2017 Goals & Progress to Date
Roadmap for Today’s Conversation

Plan for Growth – Phase I

- Growth in People and Positions
- Growth in Physical Resources
- Growth in Community
- Growth in “Reach”
Land Grant Celebration
Land Grant Celebration
## Land Grant Celebration Planning Team

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<td>Andy Benson</td>
<td>Jill Brown</td>
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<td>Kayla Schnuelle</td>
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<td>Kim Todd</td>
<td>Dave Wedin</td>
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“Miracle Worker”
Role-Model Servants . . .
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
- Federal situation still grid-locked until after election – no budget, fiscal cliff, no Farm Bill
- “Arab Spring” still evolving and concern over “round 2”
- 2012 – year of the “flash drought”
Platte River Time Lapse Project
Location: Missouri Confluence
May 2011 – June 2012
plattebasintimelapse.com
UNL Drought Team

Rick Rasby  Brad Lubben  Roger Wilson  Brian Fuchs  David Divine  Tapan Pathak  Bruce Anderson  Suat Irmak  Wayne Woldt  Jerry Volesky  Bob Klein  Chuck Burr  Don Adams  Elizabeth Killinger


Lindsay Chichester  Jenny Rees  David Varner  Lisa Jasa  Brandon Schulte  Rick Koelsch  Linda Boeckner  Aaron Stalker  Alan Moeller  Scott Josiah  Don Westover  Mike Hayes  Martha Shulski
Expected Economic Impacts

• Net farm income for 2011 astounding
• Similar “off-the-charts” levels for Iowa and other states in the region
• Value of crop production high thanks to our irrigation resources with record crop prices from a drought-stressed corn belt region
• Income situation for our livestock producers has “turned south” this year
• On track for 2012 net farm income of at least $5 billion
Why 2013 will be a year of crisis
By David Frum, CNN Contributor
updated 11:01 AM EDT, Mon September 3, 2012

Rotting corn was damaged by severe drought on a farm near Bruceville, Indiana.

STORY HIGHLIGHTS
- Frum: The drought in the U.S., Russia and Australia is driving up food prices.
- He says sharp rises in prices have long been fed to unrest among the world’s poor.
- High prices have been cited as a cause of last year’s upheaval in Egypt and Tunisia, he says.
- Frum: The winner of November election in U.S. will have to deal with the consequences.

Editor’s note: David Frum is a contributing editor at Newsweek and The Daily Beast and a CNN contributor. He is the author of seven books, including a new novel, “Patriot.”

CNN – Prediction: 2013 will be a year of serious global crisis. That crisis is predictable, and in fact has already begun. It will inescapably confront the next president of the United States. Yet this emerging crisis got not a mention at the Republican National Convention in Tampa. We’ll see if the Democrats do better.

The crisis originates in the summer’s extreme weather. Almost 89% of the continental United States experienced drought conditions. Russia and Australia experienced drought as well.

The drought has ruined key crops. The corn harvest is expected to drop to the lowest level since 1965. In just July, prices for corn and wheat jumped about 25% each, prices for soybeans about 17%.

These higher grain prices will flow through to higher food prices. For consumers in developed countries, higher food prices are a burden — but in almost all cases, a manageable burden.

Americans spend only about 10% of their after-tax incomes on food of all kinds, including restaurant meals and prepackaged foods. Surveys for Gallup find that the
NE Economy is in an Unprecedented Time

- Value of Ag Production in 2011 of $23.7 billion with net farm income for NE of $7.46 billion!
  - Beating the old record in 2008 of $4.07 Billion by more than 80% and exceeded the 2001-2011 average of $3.26 Billion by 128%.

- 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)
Annual Net Farm Income
In Nebraska: 2001-2011

Source: ERS/USD
State Funding

- UNL is 20% state funded, one of highest in APLU (IANR is 45%)
- Now in year 2 of biennium – UNL budget shortfall of 0.5%
- State has built cash reserve with tax revenues exceeding forecasts – still watching closely
- Next legislative session – budget setting for fiscal year 2013-2015
What has Changed?

External funding

Fiscal year 2012: $79.1 million, up 12% (2011 - $70.7 million)
“Building a Healthier Nebraska”

- $17 million for a new **College of Nursing** facility in Lincoln
- $50 million for a new **UNMC cancer research tower**
  - To be leveraged with more than $300 million from private donors, clinical and hospital revenues and other sources
- $19 million for expansion of the **UNMC College of Nursing’s Kearney division** and addition of a Kearney–based UNMCA allied health professions program.
- $50 million will be appropriated over 10 years in financial bonds for the **Veterinary Diagnostic Center** at UNL
  - $5 million is to come from private or other funds.
Veterinary Diagnostic Center Fund Raising
Veterinary Diagnostic Center Fund Raising

- Goal: $5 million needed by January 2013
- Nebraska Veterinary Medical Association (NVMA) leading effort with NU Foundation
  - Veterinary community
  - Wildlife/recreation community
  - Livestock organization
  - Pharmaceutical industry
- IANR matching contributions 1:1
Private Giving to the University is at an All-Time High . . .

> $1.2 B
~ $103 M
$250 M+

Brian Hastings
CEO
University of Nebraska Foundation

Must leverage new opportunities in entrepreneurial ways!
Water for Food
The Robert B. Daugherty Water for Food Institute

Food for the Future
Center for Plant Science Innovation

Center for Red Meat Innovation

Food for Health
Gut Function Initiative
Nebraska Gateway for Nutrigenomics
Redox Biology Center
Nebraska Center for Virology

Rural Future Landscape
Center for Food, Fuel & Water Policy

University of Nebraska
Number One in Feeding Our Future
DWFI - Partnerships are Key

• **Partnerships** with other institutions are key

• Public, private and international
  – Education and training programs; faculty/staff exchange
  – Cooperative research programs

• Current WFI-University of Nebraska partnership activities
  – UNESCO-IHE in Delft, The Netherlands
  – Consortium with Harvard and MIT
  – Major USAID Agreement – February 2012
  – Major UN-FAO Agreement – July 2012
  – USAID Middle East and North Africa Water Centers Network
  – MS Swaminathan Research Foundation in India: conference with Indian government officials on Managing Water Resources for Food Security and Sustainability and developing collaboration with Jain Irrigation
  – China Agricultural University, Northwest A&F, Yield Gap Analysis
  – Brazil – Univ. Sao Paulo-ESALQ
  – Africa – Ethiopia, Zambia, Ghana
  – Global Harvest Initiative – Margaret Ziegler
Daugherty Water for Food Leadership Team

Roberto Lenton
Director

Monica Norby
Associate Director

Suat Irmak
Nebraska Water Center Interim Director

Director of Research

Director of Policy
Conference Participants

*There were also 4 international participants, coming from Australia (2), Canada and the UK.
Rural Futures Institute

Officially launched: September 27, 2012
Global Engagement

Mark Doyle
Director of Global Engagement

Liana Calegare
Brazil Outreach
AFGHANISTAN (DOD ADT), BRAZIL (USP-ESALQ, CAPES), GHANA (FARA), ETHIOPIA, USAID (MENA), ZAMBIA (IDE), UNESCO-IHE, CHINA (SAG, China Ag, Northwest A&F), INDIA (JAIN, Obama-Singh, MSSRF), VIETNAM (MARD)
Opening of a State Association of Grain Office in Beijing, China
June 11, 2012
1,615 people passionate about making a difference

- 1,230 IANR employees work on campus
- 385 IANR employees are located in Nebraska communities statewide
- 600 total faculty
Chuck Hibberd
Dean and Director
UNL Extension
October 1, 2012

Mark Riley
Department Head
Biological Systems
Engineering
Roch Gaussoin
Department Head
Agronomy & Horticulture

Tala Awada
Interim Director
School of Natural Resources
<table>
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<td>Humerto Blanco Canqui</td>
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<td>Mary Brown</td>
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<td>Joel Cramer</td>
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<td>Tabitha Welch</td>
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<td>Haishun Yang</td>
<td>Agronomy &amp; Horticulture</td>
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Positions Being Recruited

- School of Natural Resources Director
- Statistics Chair (+2)
- Nebraska Water Center Director
- DWFI Research Director
- DWFI Policy Director
Tenure-Track Faculty Positions Being Recruited  
Current Academic Year

- CASNR Forensic Scientist
- AGEC Cluster Hire -- Livestock Economist (Asst)
- AGEC Cluster Hire -- Ag Firm & Commodity Risk Management (Asst/Assoc)
- AGEC Cluster Hire -- Grain, Oilseed & Biofuels Economist (Asst)
- ALEC -- Strategic Communication (Assoc)
- CYAF -- Early Childhood Education Specialist(s)* (Asst)
- NHS -- Molecular Geneticist (Asst)
- SVMBS-ANSC – Director, GPVEC (Assoc/Full)
- WFI Cluster Hire -- Systems Agronomist (Full)
- WFI Cluster Hire -- Irrigation Engineer (Asst) offer extended
- WFI Cluster Hire – Hydrogeophysicist (Full) interviews scheduled
- WFI Cluster Hire -- Water Modeler-GS Hydrologist (Asst/Assoc/Full)

TOTAL – 19 FTE
University Expectations

By 2017

- **30,000** students (up from 24,207)
- Additional **166** TTF (total of 1,300)
- Graduation Rate (6-yr) to **70%** (from 64%)
- Research Expenditures **$300 million**
  (from $235 M)
- Innovation Campus Phase 1 complete
Budget Change Over 10 Years

Millions of Dollars


$0  $250

$50  $200

$100  $150

$150

$200

$250

Millions of Dollars
## Expectations (by 2017)

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<td><strong>Total Enrollment</strong></td>
<td>4,200</td>
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<td>(12.4% of UNL)</td>
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<td><strong>Undergraduate</strong></td>
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<td>(up 33%)</td>
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<td>(base 2,402)</td>
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<td><strong>Graduate/PPVM, DPH</strong></td>
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<td>(up 53%)</td>
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<td>(base 654)</td>
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### UNL Total Enrollment
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### CASNR Total Enrollment
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</tr>
<tr>
<td><strong>Total Enrollment</strong></td>
<td>4,200 (up 37%)</td>
<td>2012</td>
<td>% of goal</td>
</tr>
<tr>
<td>(12.4% of UNL)</td>
<td>(base 3,056)</td>
<td>3,142</td>
<td>75%</td>
</tr>
<tr>
<td><strong>Undergraduate</strong></td>
<td>3,200 (up 33%)</td>
<td>2012</td>
<td>% of goal</td>
</tr>
<tr>
<td></td>
<td>(base 2,402)</td>
<td>2,486</td>
<td>78%</td>
</tr>
<tr>
<td><strong>Graduate/PPVM, DPH</strong></td>
<td>1,000 (up 53%)</td>
<td>2012</td>
<td>% of goal</td>
</tr>
<tr>
<td></td>
<td>(base 654)</td>
<td>656</td>
<td>66%</td>
</tr>
</tbody>
</table>
Weldon Sleight
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
Education in the Palm of Your Hand

Aphid Speed Scout
GrowIt-KnowIt
myUNLextension
Snack Planet
Nebraska Extension 4-H at State Fair
Crop Water
Western Bean Cutworm Speed Scout
Backyard Farmer
Market Journal
4-Day Throw Away

ianrhome.unl.edu/web/ianr/mobileapps
IANR Expectations (by 2017)

Research Expenditures

• Goal for 2017:
  At least $96.1 million of UNL’s $300 million
  – IANR needs a 7.8% (compounded) annual growth rate

• Since 1989/90 -- 4.7% annual compounded growth rate
• Since 2000/01 -- 3.6% annual compounded growth rate
• Since 2005/06 it has been closer to 2.3%
IANR Expectations (by 2017)

Research Expenditures

• IANR’s Research Expenditures represent ~39% of UNL’s Total
  • UNL Total- $235.3 M (FY2011)
  • IANR Total- $91.7 M
$7,045,455 – Lodl, Durden – Child Care & Youth Training and Tech. Assist. (USDA)  
$2,490,776 – Josiah – Cooperative Forestry Program (FS)  
$2,400,00 – Yohe – Sorghum/Millet Collab Research Program (Agency for Intl Dev)  
$1,861,243 – Koszewski – SNAP-ED Program (NE Dept Health & Human Services)  
$1,200,00 – Cotton – National E-Extension Project (APLU)  
$1,168,912 – Lubben – North Central Risk Management Ed Center (NIFA)  
$1,000,000 – Walter – Dynamics of Host-Associated Microbial Communities (NIH)  
$866,148 – Shulski – Regional Climate Services Support in the High Plains Region (NOAA)  
$766,166 – Giannakas – Center Ag & Food Industrial Org-PRG (NIFA)  
$749,941 – Fernando – Methane Mitigation in Beef Cattle (AFRI)  
$646,993 – Allen – IGERT: Stressed Watersheds (NSF)  
$624,138 – Shulski – Regional Climate Services Support in the High Plains Region (NOAA)  
$601,017 – Heng-Moss – Mitigate Insect Herbivory-Grasses (ARS)  
$598,00 – Powell – Wind and Prairie Grouse in Nebraska (NE Game & Parks)  
$594,431 – Cady – NE Technology Transfer Ctr UNL 2013 (NE Dept of Roads)  
$594,00 – Oyler – Consortium for Algae Biofuels (Univ of CA – San Diego)  
$528,561 – Powers – Integrative Taxonomy Criconematidae (NSF)
Growth in People and Positions

Prioritizing faculty hires – “core” of IANR to 2025

- Proposed planning process shared at IANR All Hands Meeting – **February 10**
- Process finalized and planning initiated – **February 21**
- Draft of unit priority plans submitted – **March 30**
- Review and discussion of unit plans among individual unit administrators and deans – **May 17**
- Unit plan revisions completed – **June 1**
- Unit plans shared and discussions about team formation – ongoing between June 1 and July retreat
- Retreat in Nebraska City – **July 24-25**
- Five areas identified for working groups
- Working groups submitted prioritized lists – **September 14**
- Deans council developed Phase I priority list – **September 26**
Phase I – Tenure-Track Faculty Lines

“Animal and Plant Stress Biology”

- Plant-Arthropod Interaction Scientist
- Plant Molecular Physiologist
- Plant Biotic Stress Biologist
- Animal Stress Physiologist
- Animal Functional Genomics
- Advanced Sensing Systems in Agriculture Engineer/Scientist
- Phase 2 – 3 positions
Phase I – Tenure-Track Faculty Lines

“Healthy Systems for Agricultural Production and Natural Resources”

- Healthy Beef Systems
  - Applied Animal Genomics
  - Quantitative Geneticist
  - Beef Systems Specialist
  - Biosystems Economist
  - Forage/Crop Residue Systems Scientist
Phase I – Tenure-Track Faculty Lines

Healthy Systems for Agricultural Production and Natural Resources (7 Phase 2)

- Agroecosystems (with tie to Stress Biology)
  - Agroecosystems Ecologist
  - Quantitative Ecologist
  - Micrometeorologist

- High Plains Agricultural Systems
  - Dry-land Cropping Systems Agronomist
  - Water Resources Management Engineer
  - Range/Forage Management Ecologist
Phase I – Tenure-Track Faculty Lines

“Healthy Humans”

- Behavioral Based Epidemiology
- Behavioral Economics and Health Disparities
- Childhood Health Behaviors
- Food Safety Risk Assessment
- Lipid Chemistry & Functionality
- Lipid Metabolism & Health
- Phase 2 – 5 positions
Phase I – Tenure-Track Faculty Lines

“Large Data Sets”

- Three positions, each with emphasis at both methodological and field-specific levels
  - ‘Omics
  - Organismal
  - System

- Phase 2 -- 3 positions
Computational Sciences Initiative (CSI)
Temporary Director: Brian Larkins
Advisory Committee: George Avalos, Andy Benson, Heriberto Cerutti, Steve Kachman, Etsuko Moriama, Steve Scott

- **Academic Programs**
  - STAT Chair + 2 Faculty
  - Emerging IANR Positions
    - A&S Positions

- **CSI Director**

- **Data Support Services**
  - Technical Support Staff (2)*

*Positions being drafted for release*
Phase I – Tenure-Track Faculty Lines

“Agricultural Science Literacy”

- Life Sciences Educator
- Science Literacy Educator and Program Coordinator
- Science Literacy Specialist
- Phase 2 – 4 positions
Phase I – Tenure-Track Faculty Lines

“Core”

- Community Leadership Development
- Behavioral and Experimental Economist
- Advanced Machinery Systems Engineer (for Food, Fuel, Water)
- Virologist
- Rangeland Ecologist
- Phase 2 – 7 positions
19 Current Searches
36 Phase I (9.4% Increase)
29 Phase II

*Must do this right...*

Highly Efficient/Effective Searches
Start-Ups / Integration
Staff Support
Building Community . . .
THE LAND-GRANT MISSION OF 2012
TRANSFORMING AGRICULTURE FOR THE 2600 WORLD

FRIDAY, SEPT. 28 | 7:30 P.M. | LIED CENTER, 12th AND R ST.

Speaker: Former U.S. Secretaries of Agriculture

Senator Mike Johanns, Clayton Yeutter, John Block and Dan Glickman
Reserve your free tickets by calling the Lied Center ticket office - 402-826-4281 or toll-free 1-800-432-3231 - beginning Aug. 26.

WHERE AMERICA MUST LEAD:
ENSURING THE WORLD CAN FEED ITS PEOPLE

THURSDAY, NOV. 15 | 3:30 P.M. | HARDIN HALL, 32nd AND HOLDREGE

Speaker: Catherine Bertini
2003 World Food Prize Laureate, Professor of Public Administration and International Relations, Maxwell School of Citizenship and Public Affairs, Syracuse University - co-chair, Global Agricultural Development Initiative, The Chicago Council on Global Affairs

RECENT AND PROSPECTIVE DEVELOPMENTS
IN AGRICULTURAL TRADE POLICIES

FRIDAY, NOV. 30 | 3:30 P.M. | HARDIN HALL, 33rd AND HOLDREGE

Speaker: Kym Anderson
George Gifford, Professor of Economics, The University of Adelaide, and Professor of Economics at Australian National University, former researcher at the World Trade Organization and the World Bank with expertise in global food and agricultural policies and market trends.

IMPROVING ANIMAL WELFARE
AND COMMUNICATION WITH THE PUBLIC

TUESDAY, JAN. 15 | 7:00 P.M. | HARDIN HALL, 33rd AND HOLDREGE

Speaker: Temple Grandin
Professor of Animal Sciences, Colorado State University, author of several books including “Learning Handling and Transport” and “Thinking in Pictures”

TOMORROW’S TABLE: ORGANIC
FARMING, GENETICS, AND THE FUTURE OF FOOD

TUESDAY, FEB. 12 | 3:30 P.M. | HARDIN HALL, 33rd AND HOLDREGE

Speakers: Pamela Ronald and Raoul Adamchak
Pamela Ronald is a Professor in the Department of Plant Pathology and the Genome Center at the University of California, Davis, and Director of Green Genomics at the Joint BioEnergy Institute, while her husband Raoul Adamchak is Market Garden Coordinator at the UC Davis Student Farm, where he teaches organic agriculture. They are co-authors of the book “Tomorrow’s Table: Organic Farming, Genetics, and the Future of Food.”

THE GLOBAL FOOD SYSTEM
AND RELATED POLICY CHALLENGES

TUESDAY, APRIL 6 | 3:30 P.M. | HARDIN HALL, 33rd AND HOLDREGE

Speaker: Per Pinstrup-Andersen
2001 World Food Prize Laureate; H.E. Babcock Professor of Food, Nutrition and Public Policy; J. Thomas Clark Professor of Entrepreneurship; and Professor of Applied Economics, Cornell University
GROWING A HEALTHY FUTURE

FOOD • FUEL • WATER • LANDSCAPES • PEOPLE