Veterinary Diagnostic Laboratory and the Oregon Climate Change Research Institute

Presentation to the Oregon State Board of Higher Education
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First probable swine flu case reported in Oregon
Education:
Practical, hands-on training of DVM students

Research:
Basic and applied biomedical research

Service:
Animal and public health services

The Veterinary Diagnostic Laboratory is integrated into the educational, research, and service missions of the College of Veterinary Medicine.
• The Veterinary Diagnostic Laboratory (VDL) successfully translates disease diagnostic services into education, research, and funding opportunities.

• It is necessary for implementation of OSU’s strategic plan in the area of “Human Health and Wellness”

• It promotes human wellbeing through better understanding of interactions between people, animals, and disease
• **60% cut in VDL funding →** staff layoffs + inability to generate $700K in service revenue → probable lab closure

• **Consequences of VDL closure:**
  – Loss of ability to train veterinarians, placing College accreditation at risk
  – Loss of first line of defense in agricultural and public health biosecurity network
  – Loss of core research facility necessary for NIH grants, OSU strategic development
Ice-free Arctic Ocean possible in 30 years, not 90 as previously estimated
April 2nd, 2009

Earth's climate is changing. How will we respond? Summit on America's Climate Choices

Critical turning point can trigger abrupt climate change
April 20th, 2009

Cuts in greenhouse gas emissions would save Arctic ice, reduce sea level rise
April 14th, 2009

Icebergs break away from Antarctic iceshelf
April 28th, 2009

Summer to Kill Swine Flu in U.S. and Mexico? John Roach for National Geographic News April 30, 2009

Water levels dropping in some major rivers as global climate changes
April 21st, 2009

Sea Level Rise Due to Global Warming Poses Threat to this century: study
April 15th, 2009 by Marlowe Hood

Climate Change and Atmospheric Circulation Will Make for Uneven Ozone Recovery
(PhysOrg.com) April 10th, 2009 by Michael Carlowicz
Is this picture in danger of disappearing?

The EPA warns that climate change threatens Oregon’s cold-water fish populations.

Changes in Climate-Maturity Potential in the Western U.S.

Jones and Myers (in preparation)
The impacts of global warming are arriving.
Leverage

- Essential to OSU’s Signature Area of Distinction, “Advancing the Science of Sustainable Earth Ecosystems”
- Aligned with OUS Sustainability Initiative
- Approximately $1B in competitive research opportunities from NSF/NASA/NOAA for climate research
- Several OCCRI partnership proposals submitted or in preparation
  - Graduate fellowships on disease and climate
  - Regional-scale research on climate impacts
  - Linkages between modeling, data, and policy
  - Total proposed so far is $7M over next 5 years