Title: Improvement a	Improvement and Marketing of the Food and Agricultural Education Information System (FAEIS)			
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Recipient Organization

VIRGINIA POLYTECHNIC INSTITUTE & STATE 1880 PRATT DR STE 2006 Blacksburg, VIRGINIA 240603580 DUNS No. 003137015 Program Name: SERD-Admin. Discretionary & Reim.-

Performing Department Ag. & Applied Economics

Co-Project Directors

Smith, Eric Mack, Timothy

Departments

Department of Statistics {NO DATA ENTERED}

Non-Technical Summary

There is a need to collect and organize institutional agriculture information concerning higher education. FAEIS is a comprehensive web-based survey and database of student and faculty data from 1862, 1890, 1994, and non Land-Grant institutions. The purpose of FAEIS is to gather, compile, and distribute student enrollment, graduation figures, job placement data, and faculty salary information related to the food, agricultural, life, human, veterinary, and natural resource sciences. FAEIS centralizes this information into a single database, and it is the primary United States registry for these subject areas. The data and related analyses are critical to administrators of these of higher education programs. This project will advance the work done during the previous six years of FAEIS development at Virginia Tech by improving and marketing the program so that it has more participants, more users, and provides more value.

Accomplishments

Major goals of the project

The purpose of FAEIS is to gather, compile, and distribute a broad range of higher education information related to the food, agricultural, life, human, veterinary, and natural resource sciences. FAEIS provides student enrollment, graduation, and job placement information, as well as faculty salary information. FAEIS centralizes these data into a single database. Availability of these data and related analyses is critical to administrators of higher education programs as they plan and deliver educational programs. 1. Market FAEIS - enhance and improve the FAEIS website; develop and distribute marketing materials; participate in conferences and workshops; provide FAEIS data to users; and identify institutions not currently participating in FAEIS, provide them with information, and invite them to participate. 2. Enhance databases in FAEIS - Enhance the Board on Human Sciences benchmarking database and provide reporting means to institutions; enhance the international education database and provide reporting means to institutions; and enhance the regional teaching workshops website. 3. Survey and assess the value of FAEIS - conduct annual survey of FAEIS users regarding its value, conduct a comprehensive assessment of FAEIS to determine progress during the three-year grant cycle and plan for the future; and meet with the FAEIS peer panel annually.

What was accomplished under these goals?

In 2013, the FAEIS project celebrated its 30th anniversary. Other key highlights include a resolution in support of FAEIS adopted by the APLU-Academic Program Section and the APLU-Board on Agriculture; a USDA-NIFA external program review, where the panel's closing remarks deemed FAEIS "unique, reliable and important;" and broad-based use of FAEIS by faculty, administrators, and government officials, including the USDA Undersecretary of Agriculture (Dr. K. Woteki). In 2013

alone, the FAEIS public website received 86,793 page hits from 12,594 unique visitors who generated 8,517 reports. For specific objectives and sub-objectives, results are described below:

1. MARKET FAEIS

ENHANCE & IMPROVE THE FAEIS WEBSITE: To enhance data quality, in 2010 the FAEIS team added two faculty from the Virginia Tech (VT) Statistics Department as co-PIs and developed a data quality assurance protocol to verify accuracy of existing 2004-2010 data. Specifically, verifying data over these seven years, for all majors for each of the 76 Land-Grant institutions by degree level, gender and ethnicity, involved verifying 230,000 data points. New data is now entered using our data protocol system.

In 2012-2013, the FAEIS public website (http://faeis.usda.gov) was redesigned to increase usability and ease of access to the most important pages within FAEIS. Features added include a new Data Center (http://faeis.ahnrit.vt.edu/reportspubs.shtml) with links to dynamic reports including Data Dictionaries and MS/Excel files with pivot tables for FAEIS enrollment data). MARKETING MATERIALS: Multiple brochures, handouts and two large banners have been developed and distributed to over 2000 users. One banner is used at conferences to quickly inform readers of the purpose and goals of FAEIS; the other is prominently displayed at USDA-NIFA headquarters.

CONFERENCES/WORKSHOPS: FAEIS team members made presentations to our funding sponsor, USDA-NIFA, and participated in annual conferences of our partnering organizations: Association of Public & Land-Grant Universities (APLU), Non-land-grant Agriculture and Renewable Resources Universities (NARRU, formerly AASCARR), National Association of University Forest Resources Programs (NAUFRP), Hispanic-Serving Agricultural Colleges and Universities (HACU), First Americans Land-Grant Consortium (FALCON), Board on Human Sciences (BOHS) and team conducted workshops on FAEIS at the North American Colleges and Teachers of Agriculture (NACTA) conferences.

PROVIDE FAEIS DATA TO USERS: The FAEIS public website (http://faeis.usda.gov) is the primary access point for FAEIS resources, which include over 4,000 individual html pages, PDFs, spreadsheets, and images.

The FAEIS Report Builder (http://faeis.ag.vt.edu/faeisrpt.cfm) is the primary source for generating reports from FAEIS data. For the years 2008-2012, 2,932 sessions were recorded with a total of 36,480 reports generate. FAEIS frequently assists users with requests for customized reports, e.g., In 2012, at least 26 end users received expert assistance from FAEIS; with 17 in the first five months of 2013, including the Director of NIFA.

NEW FAEIS INSTITUTIONS: FAEIS' efforts in this area have been particularly successful for Tribal land-grant colleges, and for both non land-grant (NLG) colleges and two-year institutions, that have agricultural programs. Completions data (e.g., degrees and certificates awarded) for all disciplines at the 32 Tribal 1994 Land-grant institutions has been added to FAEIS Report Builder for the years 2004-2012. Data at this level of completeness and accessibility has never been available until now. For NLGs, the FAEIS office identified 80 institutions offering degrees in Agricultural Sciences (bachelors or higher). Of these, 44 were already in FAEIS as NARRU(ASSCARR) members; degree data for the additional 36 were added to FAEIS Report Builder for the years 2004-2012; enrollment data was added to FAEIS (2004-2012) for 24 of these 36. Data from FAEIS was used by USDA-NIFA, APLU, and NARRU as the NLGCA competitive grants progressed from concept to reality. Degree data for public two-year institutions granting degrees in Agriculture was also added to FAEIS Report Builder for the years 2004-2012; environment data were published in the October, 2013 FAEIS newsletter (http://www.faeia.absrit.vt.edu/nowulatter/october_12/apuwletter.edu/nowulatter/october_2013 http://www.faeia.absrit.vt.edu/nowulatter/october_12/apuwletter.edu/nowulatter/october_2013 http://www.faeia.absrit.vt.edu/nowulatter/october_2014 http://www.faeia.absrit.vt.

(http://www.faeis.ahnrit.vt.edu/newsletter/october_13/newsletter_oct13.html)

2. ENHANCE DATABASES IN FAEIS.

BOARD ON HUMAN SCIENCES (BOHS) BENCHMARKING DATABASE: The BOHS benchmark survey was developed at the request of the BOHS and Council of Administrators of Family and Consumer Sciences (CAFCS). Fifty institutions with Family and Consumer Sciences programs participated in the benchmarking survey from 2008-2011.

INTERNATIONAL DATABASE: The International Programs Database module was added in 2008 and collects data on students studying abroad, international research and outreach projects, and countries with international programs. One-hundred and forty (140) institutions and more than 250 projects have been added to the International Programs database. Results include acceptance of an article in the NACTA Journal.

REGIONAL TEACHING WORKSHOPS WEBSITE: The USDA Regional Teaching Workshops and Awards Programs website, developed in collaboration with University of Florida, serves as a repository for presentations given at the regional teaching workshops, and highlights national and regional teaching award recipients. The website lists all award recipients from 1992 to 2012, along with their presentations and teaching philosophies, where these have been provided to FAEIS. In addition, past Award Program documents are found on the site.

3. SURVEY AND ASSESS THE VALUE OF FAEIS.

ANNUAL SURVEY FAEIS USERS: The second year of our FAEIS Annual Longitudinal survey was conducted in the summer of 2008. Two-hundred and eighty-five (285) FAEIS users participated for a 27% response rate. The survey indicated that the majority of users find FAEIS useful to their needs and satisfied with FAEIS products. Longitudinal questions from this survey were incorporated into the 2009 triennial survey (see below). Following changes in priority for the FAEIS contract and at the request of our USDA-NIFA contact, Shane Ball, all user surveys were terminated. This fact made it even more important to interact with users at conferences and workshops.

COMPREHENSIVE ASSESSMENT OF FAEIS: The three-year FAEIS evaluation of users was completed in 2009. Highlights include (a) the more years of experience a user has using FAEIS, the greater the level of satisfaction with FAEIS; (b) the greatest satisfaction of FAEIS data and its use included the following: enrollment, institutional benchmarking, trend analysis,

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salary comparisons; (c) the greatest satisfaction of FAEIS products: CIP code list, e-newsletter, website; (d) the FAEIS report builder—good, but room for improvement; (e) users were most confident in the following FAEIS data: college enrollment, faculty headcount, student/faculty demographics, degrees awarded: least confident: international/student placement (e) **most users believe FAEIS adds-value and is used twice as often as any other similar database;** and (f) most users have not contacted help desk; but of those that have---90% rated it excellent or good.

MEET WITH FAEIS PEER PANEL ANNUALLY: The FAEIS peer panel met annually from 2008 to 2010, providing a forum for the FAEIS team and USDA-NIFA to present information on the project, while receiving feedback from the peer panel, consisting of academic deans who use FAEIS. Results of these meetings are posted on the FAEIS website. Outcomes included priority setting to address the needs of users. This activity has also been terminated due to changes in the FAEIS contract (see ANNUAL SURVEY section above.)

What opportunities for training and professional development has the project provided?

The FAEIS team provided training workshops on the use of FAEIS at conferences that draw a large number of our users, e.g., the North American Colleges and Teachers of Agriculture (NACTA) annual conference.

How have the results been disseminated to communities of interest?

Through publications, presentations, workshops and newsletters.

What do you plan to do during the next reporting period to accomplish the goals?

{Nothing to report}

Participants

Role	Faculty and Non- Students	Students within Staffing Roles			Computed Total
		Undergraduate	Graduate	Post-Doctorate	by Role
Scientist	0.4	2	1	0	3.4
Professional	0.9	0	0	0	0.9
Technical	0	0	0	0	0
Administrative	0	0	0	0	0
Other	0	0	0	0	0
Computed Total	1.3	2	1	0	4.3

Actual FTEs for this Reporting Period

Target Audience

FAEIS offers an accessible resource of educational data for users which include faculty, higher education administrators, government officials, industry professionals, and the general public to strengthen higher education programs. FAEIS can assist users in examining student enrollment trends, degrees awarded, emerging disciplines, student placement, institutional comparisons and faculty salaries.

Products

Туре	Status	Year Published	NIFA Support Acknowledged
Other	Published	2012	YES

Citation

"Trends occurring in the number of baccalaureate degrees awarded in different U.S. regions." FAEIS Newsletter, December 18, 2012. On Web: http://www.faeis.ahnrit.vt.edu/newsletter/index.shtml

Accession No. 215506	Project No. VA	E-2008-04321	
Туре	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2013	YES
Citation			
Minority Students? Explorin	g Educational Attainm		n Institutions Meeting the Needs of ross the United States." Virginia Tech's ebruary 6-8, 2013, pages
Туре	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2013	YES
Citation			
Minority Students in Land-G	Grant Institutions," Nor A. June 25-28, 2013. / rg/images/stories/Abs	th American Colleges and Teach Abstract printed in NACTA Journa tractSupplements/	Educational Attainment of Undergraduat ers of Agriculture (NACTA) Annual al, 57:1(2013):23-24. Retrieved from
Туре	Status	Year Published	NIFA Support Acknowledged
Other	Published	2013	NO
Citation			
Journal, by WSJ reporters: http://online.wsj.com/news/a	David Kesmodel and articles/SB100014241	ents, and Their Schools, Reap R Owen Fletcher, Feb. 13, 2013. O 27887324906004578292263203 Wall Street Journal newspaper	855782?mod=wsj_share_email.
Туре	Status	Year Published	NIFA Support Acknowledged
Other	Published	2013	NO
Citation			
'More College Students Tur February 20, 2013. On web programs/.	: http://www.dailygaze		azette Reporter: Kelly de la Rocha, college-students-turning-agriculture- o.
Туре	Status	Year Published	NIFA Support Acknowledged
Vebsites	Published	2008	YES
Citation			
RICHARDSON B., M. Marc website (http://www.faeis.ah	nnrit.vt.edu/index.shtm AEIS team maintains	nl). over 4,000 individual html pages,	ducation Information System (FAEIS) PDFs, spreadsheets, and images on
Туре	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2013	YES
Citation	-		
	t February 2013 "Th	e Food and Agricultural Education	on and Information System (FAEIS),"
nvited presentation, Associ	ation of Public Land-C	Grant Universities-Academic Prog	grams Section (APLUAPS)/Non-land- a. VA. February 29-March 2, 2013.

grant Agricultural and Renewable Resources (NARRU) annual meeting, Alexandria, VA. February 29-March 2, 2013.

Accession No. 215506	Project No. VA	E-2008-04321	
Туре	Status	Year Published	NIFA Support Acknowledged
Other	Published	2013	YES
Citation			
"Baccalaureate enrollment fo 2013. On Web: http://www.fa			lisciplines," FAEIS Newsletter, June 12,
Туре	Status	Year Published	NIFA Support Acknowledged
Other	Published	2013	YES
Citation			
'Forecasting the supply of g On Web: http://www.faeis.ah		tional pipeline." FAEIS Newsletter r/index.shtml	r, April 23, 2013.
Туре	Status	Year Published	NIFA Support Acknowledged
Other	Published	2013	YES
Citation			
"Trends in graduate enrollm On Web: http://www.faeis.ał		d-grant institutions." FAEIS News r/index.shtml	sletter, February 8, 2013.
Туре	Status	Year Published	NIFA Support Acknowledged
Other	Published	2012	YES
		duate student enrollment in family v.faeis.ahnrit.vt.edu/newsletter/inc	
Туре	Status	Year Published	NIFA Support Acknowledged
Other	Published	2012	YES
Citation "Trends for minority students education institutions across http://www.faeis.ahnrit.vt.edu	the United States."	FAEIS Newsletter, September 4, 2	nd natural resources at 98 higher 2012. On Web:
Туре	Status	Year Published	NIFA Support Acknowledged
Other	Published	2012	YES
Citation			
	ion of University For	est Resources Programs), FAEIS	nservation at Institutions Affiliated with Newsletter, August 12, 2012. On Web:
Туре	Status	Year Published	NIFA Support Acknowledged
Other	Published	2012	YES
		ure Programs at the Land Grants rt.edu/newsletter/index.shtml	from 2004-2011." FAEIS Newsletter,

Other Products

Product Type

Audio or Video

Description

"Agriculture Degrees: The Hot Ticket for Job Growth?" FOX News. January 7, 2013. On web: http://video.foxnews.com/v/2079770761001/#sp=showclips&v=2079770761001.

Optional Comments: FAEIS data was used in this news video, which features UC Davis.

Product Type

Other

Description

In 2012-2013, FAEIS Team members made presentations at USDA-NIFA, including the NIFA-Institute of Youth, Family and Community (IYFC) Open House; and at annual conferences of our partner organizations including the Association of Public and Land-Grant–Academic Programs Section Universities (APLU-APS); Non-land-grant Agriculture and Renewable Resources Universities (NARRU, formerly AASCARR); North American Colleges and Teachers of Agriculture (NACTA), and the 1890 Land-Grant Colleges and Universities Directors' Meeting.

Changes/Problems

We experienced major funding cuts, some of which have been restored by NIFA.