

## IGI Activities and Status – July 1, 2009

### Completed Projects

- IGI Return on Investment Study - 2007 \$50k FGDC CAP Grant – completed Sept. 2008 – project documents available <http://www.iowagic.org/igi/>
- 2008 NAIP - \$175k from state, local and private partners
- 2007 NW Iowa 2' 4-band Orthos – \$195k funding from USGS for 17 counties
- Hydrography Pilot Project – 27 HUC12s with \$50k in funding from USGS

### Ongoing Projects

- Statewide Lidar Project – 47k sq miles collected out of 57k – next delivery in Sept.
- 2009 2' 4-band Orthos for Western Iowa - \$650k in funding from state's pooled technology fund from last year – imagery collected in March 2009, to be delivered in Sept. – Dan Corbin, Inc. contracted to provide horizontal accuracy assessment
- Stewardship of Structures and Transportation layers – 2008 \$50k FGDC CAP Grant – web update tool for structures database in progress at ISU
- GIS Flood ROI Study - \$15k funding from USGS – interviewed GIS people involved in last year's flood, ROI spreadsheets produced for various geospatial activities during 2008 flood – final deliveries soon.

### New IGI Projects – funding allocated

- Geocoding Project – will create address points for 30-50 counties using \$650k from pooled technology fund – full funding appropriated by the legislature this year
- 2010 2' 4-band Orthos – full funding appropriated by the legislature this year, will complete 2' coverage next spring – buy-ups available for 1' and 6".
- Geospatial Interns – Americorps funding for 4 volunteers for the summer to do IGI activities and local gov't GIS needs: Winneshiek, Hardin and Marshall Counties, DM Regional GIS group selected, interns hired and trained.

### Related GIS Projects

- 2009 NAIP will flown again this year with federal stimulus funding – 1 m color
- Homeland Security Grant – purchase some computing infrastructure
- Floodplain Mapping - \$15M to complete floodplain maps for the state – pilot project with Iowa Flood Center for floodplain models for Poweshiek County – should create hydro-enforced DEMs, contours and hydrography layers as well as approximate DFIRMs for all Iowa counties
- Iowa Rural GIS Summit – date fall 2009? Place??

### Rejected Projects – funding denied

- County GIS Service Bureau – LGIF \$350k for 2 GIS techs for 2 years
- Hi-res land cover and Hydrography – Economic Stimulus Funds - \$3M
- 2009 CAP Grant with the Carbon Project
- Land Cover for Skunk River Basins – WIRB funding - \$350k

### Pending Projects – waiting for funding approval

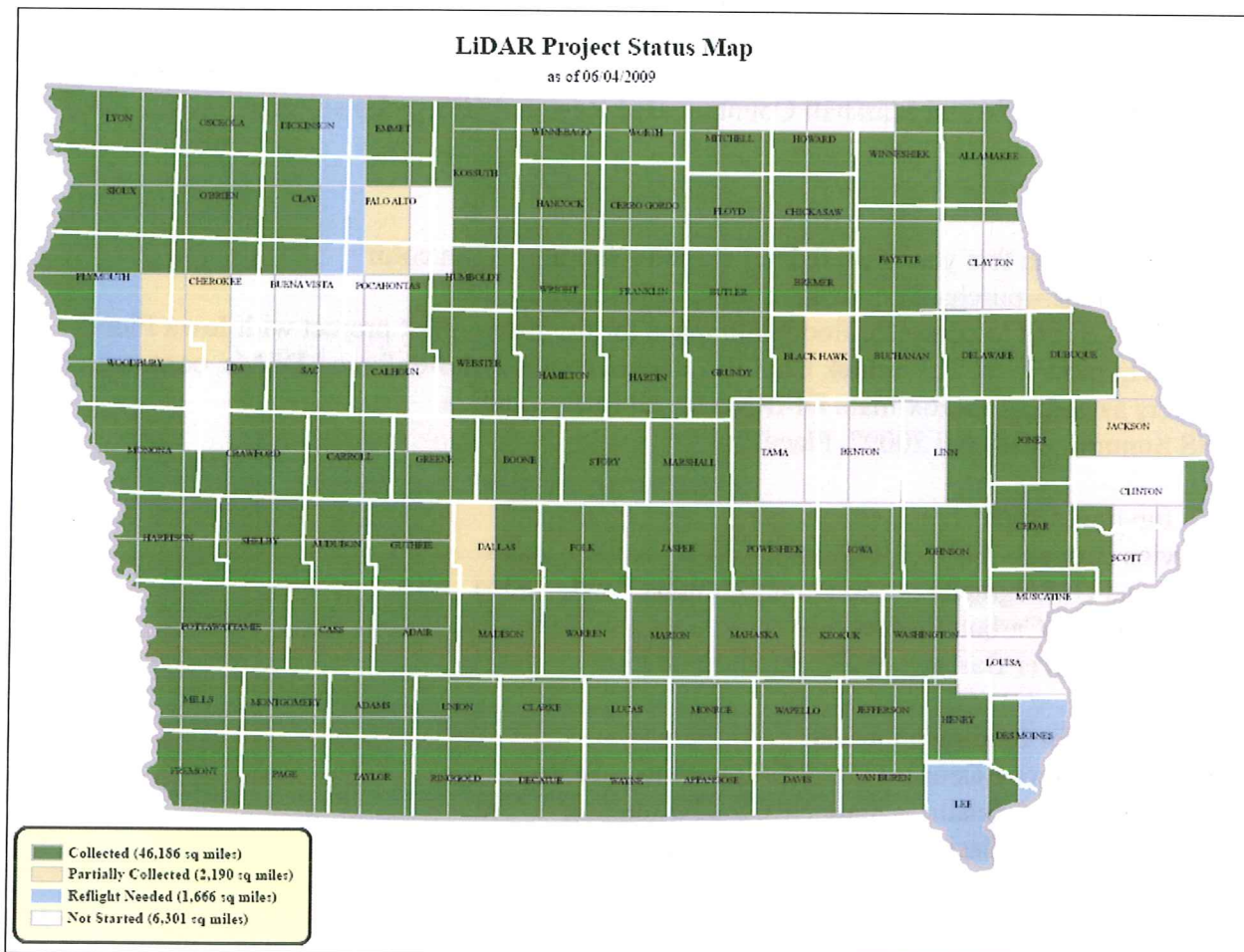
- Land Cover for Skunk River Basins – USDA CIG funding - \$350k
- Land Cover for Skunk River Basins – State NRCS CIG funding \$75k
- Land Cover for Skunk River Basins – EPA Star funding - \$450k

### Possible Future Projects

- 2010 CAP Grant application – IGI ROI study for cities, COGs and utilities – emphasis on economic development? – due Dec. 2009
- 2011 Pooled Technology Funding ??
- I-Jobs Funding ?? emphasis on local government preparation for future disasters (use results of GITA flood ROI study) and job creation (more interns?)
- ARRA Broadband Mapping ?? Should IGIC develop a proposal to coordinate a BB mapping project with state, local, academic and industry partners?
- Collaboration on The National Map data layers and GeoPDFs for Iowa
- Collaboration with County Engineer Service Bureau to help county engineers use lidar elevation data
- Collaboration between ICIT and IGIC to get data into ICIT data repository, metadata into IGIC clearinghouse and data inventory on IowaGISInventory.org

### Projects looking for funding

- 2010 NAIP - will additional federal funding become available for 1 m color – can Iowa get together additional \$100k for 4<sup>th</sup> infrared band?
- High-resolution land cover for state – 1 meter from NAIP, leaf-off, lidar and other input layers – estimated cost, about \$2M
- Hydrography – NHD conflation on lidar-derived stream network from floodplain work
- Geocoding Phase 2 – address points for 50 or so remaining counties
- County GIS Service Bureau – 4 FTEs, about \$300k per year
- State GIS Service Bureau – 4 FTEs, about \$300k per year



[igicboard] The New Generation of USGS Digital Topo Maps

Robert M Lemen

to:

igicboard

06/08/2009 01:06 PM

Sent by:

owner-igicboard@iastate.edu

Please respond to Robert M Lemen

Show Details

To all,

I wanted to make you aware of the new digital topo map that the USGS is introducing. This initial phase, the "Digital Map-Beta", is being rolled out today. There has been much work and effort by many people to make this happen. The information below includes the web site where you can view and learn more about the product.

This product was discussed at the USGS/partner meeting held in Ft. Collins, CO a couple of weeks ago. I had planned on discussing this somewhat at our next board meeting in July, but wanted to provide you with this beta version information since it has been officially released.

Bob

Greetings,

The U.S. Geological Survey is pleased to introduce the new "Digital Map - Beta", which is a step toward the next generation of USGS topographic maps. It is built from data layers of *The National Map*, which is a synthesis of information from local, State, and Federal partners. "Digital Map - Beta" will be available on the Web at no cost, in a GeoPDF format. Free tools allow users to determine coordinates, turn layers on and off, zoom in and out, and print the map image. As a valued partner of USGS, we invite you to be among the first to evaluate this new product by visiting the "Digital Map - Beta" web site at [http://nationalmap.gov/digital\\_map/](http://nationalmap.gov/digital_map/).

In addition to a product overview, the web site includes a "Quickstart" user's guide, links to locate and download the available maps, an information sheet and some interesting information concerning the history of topographic mapping in the USGS. The initial "Digital Map - Beta" will be 7.5-minute format and contain an image background, roads, geographic names, and choices of grid reference systems. The map's collar and frame will have the same look and feel as the USGS legacy topographic map. As the product evolves, additional data layers will be added, beginning with contours and hydrography. In addition, the USGS plans to link scanned versions of prior, printed topographic maps to the new "Digital Maps - Beta."

In the next few months the feedback that you provide will be used to refine the website and outreach materials for this product. Please submit your comments via [http://nationalmap.gov/digital\\_map/digitalmap\\_feedback.html](http://nationalmap.gov/digital_map/digitalmap_feedback.html) or simply click on the "Contact Us" tab of the "Digital Map" web site.

Thank You.

Bob Lemen  
USGS Geospatial Liaison for Iowa  
NSDI Partnership Office  
1400 Independence Road  
Rolla, Missouri 65401

email: [rlemen@usgs.gov](mailto:rlemen@usgs.gov)  
office phone: (573) 308-3736  
fax: (573) 308-3652  
cell phone: (573) 368-8098

<http://liaisons.usgs.gov/nsdi/iowa>

# “Digital Map—Beta”

Powered by *The National Map*

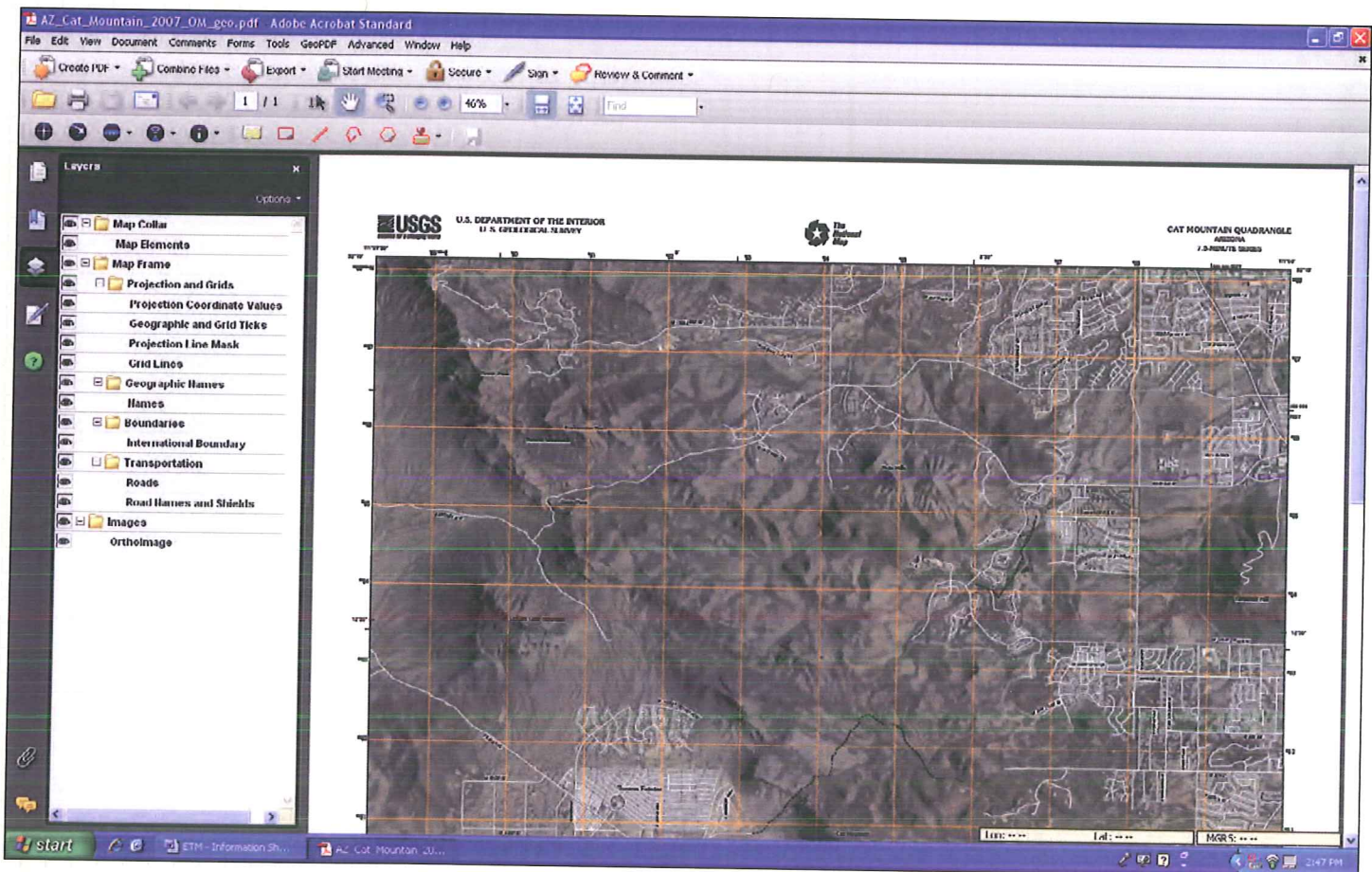
In 2001, the U.S. Geological Survey (USGS) published a new vision for topographic mapping of the Nation: *The National Map*. The objective of *The National Map* is to ensure current, consistent, seamless, and integrated geospatial data for the Nation through Federal, State, local, and other partnerships. In 2008, the USGS accelerated the goal to develop a new topographic map as a primary digital product of the program. Such maps are vital

for homeland security, research, industry, disaster response, recreation, land and resource management, and many other applications.

## The “Digital Map—Beta”

The USGS National Geospatial Program (NGP), working with partners in the public, private, and academic sectors, has developed capabilities to produce the “Digital Map—Beta” (“Dig-Map—Beta”). The initial focus

has been on image maps, using data from *The National Map*, along the Gulf of Mexico and Atlantic Ocean coasts. This effort supports hurricane-related emergency response and helps to refine and advance mapping methods and products. The image map is a first step toward the ultimate goal of national coverage of a digital topographic map product that will include all of the information content of traditional printed maps.



Cat Mountain, Arizona, “Digital Map—Beta”.



Detail from the Cat Mountain, Arizona, “DigMap—Beta” incorporating National Agriculture Imagery Program (NAIP) orthoimagery (June 2007), roads from the National Transportation Dataset (2008), and names from the Geographic Names Information System (2008).

The next generation USGS topographic map will be a digital product made from *The National Map* data. The initial version, the “DigMap—Beta”, includes orthoimagery plus roads and geographic names in the traditional 7.5-minute quadrangle format. Ultimately, there will be digital topographic maps that include all data available from *The National Map*: orthoimagery, elevation, hydrography, boundaries, transportation, geographic names,

structures, and land cover. When contours are incorporated, the term “Beta” will be dropped.

### Approach

The USGS will first focus on the image map layer of the “Digital Map—Beta” using U.S. Department of Agriculture 1-meter ground resolution National Agriculture Imagery Program (NAIP) orthoimagery. This imagery is available publicly, nationally consistent, and

tone-balanced. NAIP imagery file size is manageable for Internet distribution and download.

Map production will follow the NAIP acquisition cycle (ultimately 3-year) to complete conterminous national coverage. Data sources for Alaska, Hawaii, Puerto Rico, and the U.S. Virgin Islands, and the Pacific Territories will be assessed for eventual production of the “Digital Map—Beta.” The new maps will be made available online, initially as pre-packaged GeoPDF files. Ultimately, the pre-packaged files will include, or be accompanied by, high-resolution scans of older USGS maps covering the same quadrangle areas. The GeoPDF files are viewable using widely-available commercial software packages.

Data development partnerships will enhance the holdings of *The National Map*. Integration of additional content will begin with national hydrography and contour data, after which these layers will be added to the maps.

With time, the NGP’s Map-on-Demand system will be enhanced to provide an online tool for users to create their own maps for customized areas from the most current data in *The National Map*. Tools also will be made available to discover, obtain, and overlay geospatial datasets from other sources.

### More Information

The USGS ([www.usgs.gov](http://www.usgs.gov))

“Digital Maps—Beta” ([http://nationalmap.gov/digital\\_map/](http://nationalmap.gov/digital_map/))

*The National Map* ([nationalmap.gov](http://nationalmap.gov))

“Digital Map—Beta” Download ([http://nationalmap.gov/digital\\_map/quickstart.pdf](http://nationalmap.gov/digital_map/quickstart.pdf))

NAIP (<http://www.fsa.usda.gov/FSA/apfoapp?area=home&subject=prog&topic=nai>)

# “DIGITAL MAP - BETA” USERS GUIDE – QUICKSTART

This Quickstart guide provides an overview of access to and use of “Digital Maps - Beta” for the beginning user. Additional information about the “Digital Map - Beta” product is available at [http://nationalmap.gov/digital\\_map/about.html](http://nationalmap.gov/digital_map/about.html) More details about *The National Map* are at <http://nationalmap.gov/>

The “Digital Map - Beta” is a step toward the next generation of USGS topographic maps. It is built from data layers of *The National Map*, which is a synthesis of information from local, State, and Federal partners. “Digital Maps - Beta” are available on the Web at no cost, in a GeoPDF format. Free tools allow users to determine coordinates, turn layers on and off, zoom in and out, and print the map image.

## PREREQUISITES

These instructions are written for the Windows operating system on a personal computer. Broadband Internet access is recommended.

Adobe Acrobat Reader software is required and may be download at <http://get.adobe.com/reader/>

To install the GeoPDF tools to get full functionality download the TerraGo Tool bar at: <http://www.terragotech.com/download/download?p=geopdftoolbar> The download and use are free.

## ACCESS TO “DIGITAL MAPS - BETA”

All current “Digital Maps - Beta” are available through the [USGS Store](#) Click on the following for a direct link to the “Map Locator” [Download Digital Map – Beta](#) or select the “[Download Maps](#)” tab on the Digital Map – Beta web site.

## LOCATING “DIGITAL MAPS - BETA” THROUGH THE USGS MAP STORE

At the “[Map Locator](#)” page on the Map Store page, select the “Show DigMap– Beta” button below the map graphic. When selected, a layer showing the available “Digital Maps – Beta” will appear as black dots. By zooming in on the dots, they will become yellow boxes. From there, you can “mark” and download the “Digital Map – Beta” quadrangle by following the on-screen instructions to the right of the map graphic.

You can also search for USGS quadrangles by using quadrangle name or by address/place. *Note: National coverage of “Digital Maps - Beta” will require some time to complete.* A [status graphic](#) showing the anticipated coverage for 2009 is at [http://nationalmap.gov/digital\\_map/about.html](http://nationalmap.gov/digital_map/about.html)

An index of the States currently available in the “Digital Map – Beta” format and amount of coverage or quadrangles loaded for each State will be published soon.

## DOWNLOADING “DIGITAL MAPS - BETA”

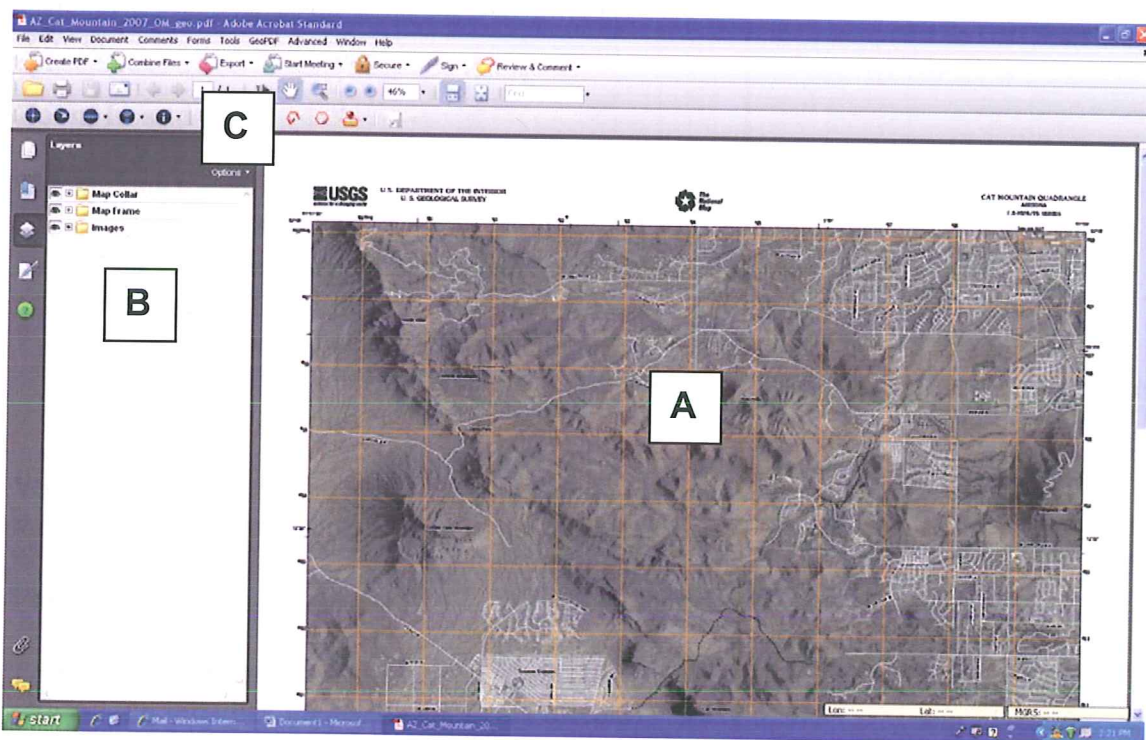
Click “Download” for the selected “Digital Map - Beta”, then click “Save” to save the downloaded file to a directory and file name you specify on your hard drive. You may wish to rename the file at this time.

## OPENING THE “DIGITAL MAP - BETA” FILE

Find the file on your hard drive. Click on the file icon or name to open the file. The map will appear in an Adobe Acrobat Reader window.

You will also be offered an opportunity to download and install tools provided by TerraGo Technologies. This [download](#) is free. The tools download and installation is only required once. These tools supplement Adobe Acrobat Reader capabilities by providing added capabilities to use the “Digital Maps - Beta.” More information is available at <http://www.terragotech.com/solutions/index/> under “[TerraGo Desktop.](#)”

After you have opened the file and installed the TerraGo Technologies tools, your screen should look like this:



## USING THE “DIGITAL MAP - BETA”

Your screen has three sections:

- A. Map image
- B. Listing of map layers
- C. Adobe Reader and TerraGo Technologies tools

**IGIC Conference Financials**  
6/30/2009

			<b>Fee</b>	<b>Total</b>
<b>Registrations</b>				
Pre Reg		80	\$140.00	\$11,200.00
Workshops		34	\$75.00	\$2,550.00
Student		10	\$25.00	\$250.00
Registration		5	\$175.00	\$875.00
<b>Exhibitors</b>				
Bronze		3	\$600.00	\$1,800.00
Silver		4	\$900.00	\$3,600.00
Gold		2	\$1,300.00	\$2,600.00
Platinum		1	\$1,800.00	\$1,800.00
non refund		1	\$50.00	\$50.00
<b>Other Income</b>				
MAGIC Contribution		1	\$250.00	\$250.00
<b>Total Income</b>				<b>\$24,975.00</b>
<b>Expenses</b>				
Monday Social	Isle Hotel	1	\$1,645.88	\$1,645.88
Conference Food & Breaks	Hawkeye Food Service	1	\$3,874.00	\$3,874.00
Table Cloths for Vendors	Hawkeye Food Service	0	\$3.00	\$0.00
Lanyards		1	\$88.92	\$88.92
Name Tags		1	\$239.96	\$239.96
Programs / Printing		1	\$216.20	\$216.20
Tama Hall Rental		1	\$900	\$900.00
Save the Date Cards		1	\$150	\$150.00
Keynote Speaker Hotel		1	\$355	\$354.77
Awards		1	\$95.60	\$95.60
ISU Reg Fee		91	\$12.50	\$1,137.50
ISU Admin Fee		1	\$449.49	\$449.49
ISU Credit Card Fee		1	\$435.25	\$435.25
Misc Supplies		1	\$100.00	\$100.00
USB Hubs		125	7.45	\$931.25
Door Prizes		1	\$704	\$704.38
UNI Parking		1	\$47.19	\$47.19
Poster Session Prizes		1	\$175	\$175.00
<b>Total Expenses</b>				<b>\$11,545.39</b>
<b>Conference Net</b>				<b>\$13,429.61</b>