Volume 24

June 2014

NMGIC

1984 - 2014

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The Map Legend

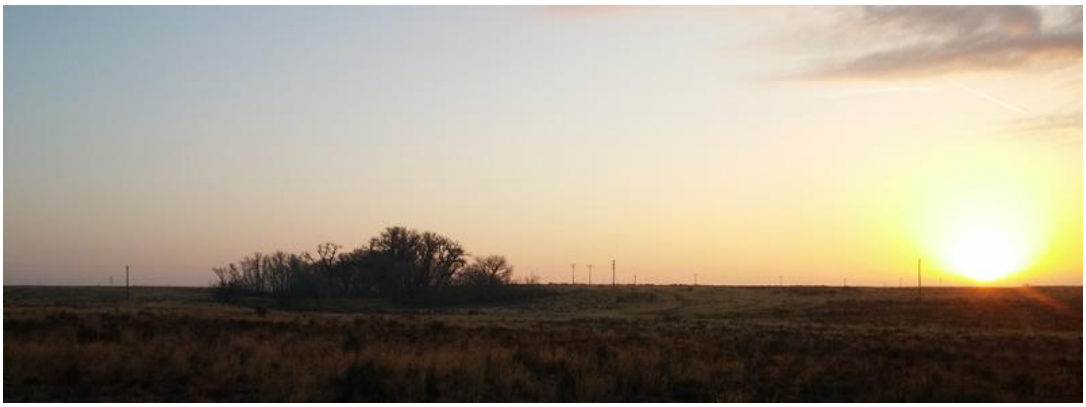
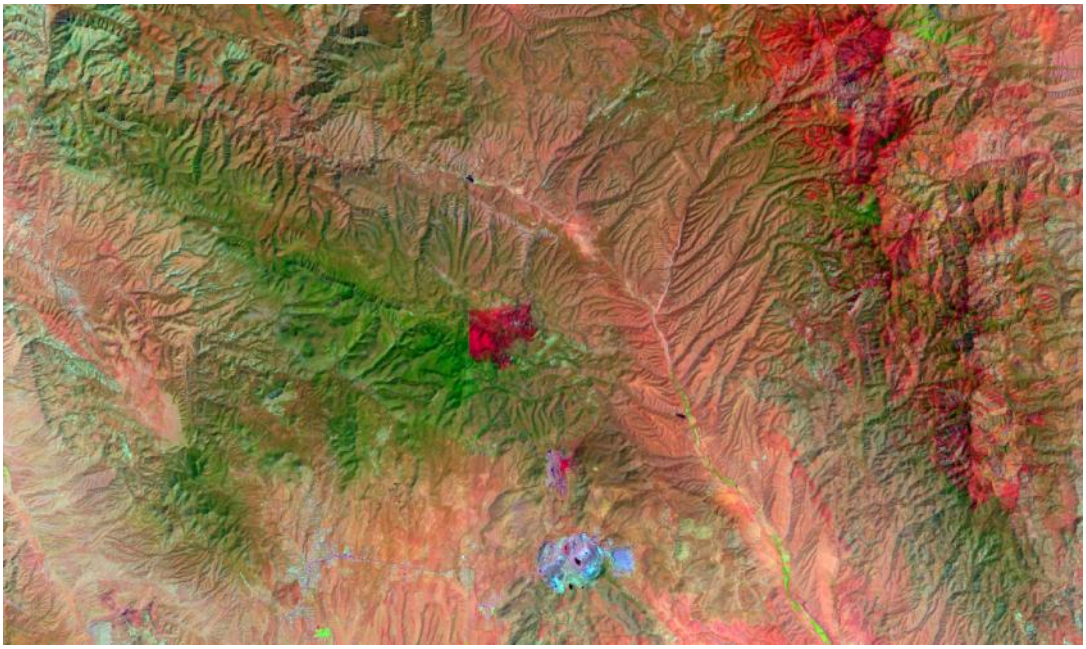


photo by Rick Kohler

EDAC's Signal Fire Imagery

Mike Camponovo



Landsat 8 continues to provide a wealth of useful remote sensing data for a variety of topics.

EDAC recently used the satellite imagery to create a *pre-fire* and *during-fire* image slider using a JavaScript plugin called Before/After. Using ESRI's ArcMap software to create 3 sets of images, from April 29 (pre-burn) and May 15 (during-burn), are created. One set of images is a natural color 4, 3, 2 composite, the second set is a shortwave infrared 7, 5, 4 composite, and the third is a thermal infrared 10, 5, 2 composite. The burn scar is hard to see in the natural color composite but stands out clearly in the shortwave and thermal composites. Try out the sliders yourself on your desktop, tablet, or mobile phone at:

https://edac.unm.edu/projects/signalfire/

On your desktop, hover your mouse over an image and a green slider will appear. On your mobile device simply click on the left or right side of the image to see the before and during burn scar.

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The Map Legend

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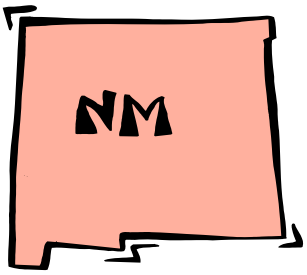

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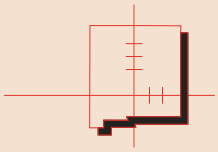
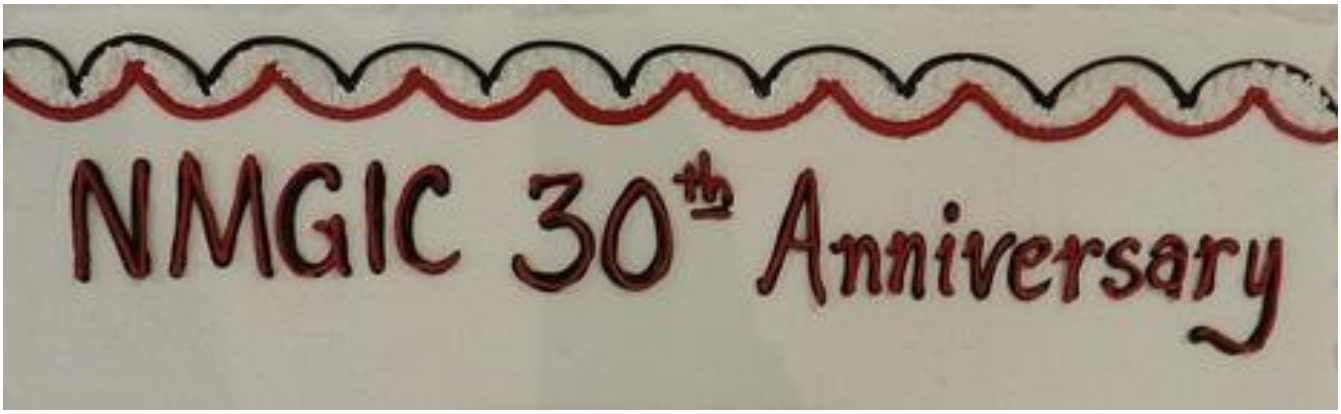




2014 GIS Calendar of Events

GITA
GIS for Oil and Gas Conference Oct 28-30 2014 Houston Tx

GIS Day
GIS Day November 19, 2014, "everywhere"

NSGIC
2014 Annual Conference, Sept 14-18, in Charleston, SC

ESRI
International User Conference, July 14-18, in San Diego, California

GeCo
In the Rockies Conference, Sept 2-26, in Grand Junction, Colorado

NMGIC
Fall 2014 Workshop/Meeting, Date and Location to be determined

ASPRS
2015 Annual Conference, May 4-8, in Tampa FL.

JOIN NMGIC!

Membership fee $30
Student Membership fee $15

Corporate Membership fee $250
Corporate Member Exhibit fee $100
Non-member Corp Exhibit fee $200

http://www.nmgic.com/

Message From The NMGIC President—Lisa Arnold

This year marks the 30th anniversary of NMGIC. I am inclined to say what an amazing accomplishment it is to be celebrating our 30 year anniversary, but the truly amazing part is the many people who have freely dedicated their time and energy over the years to establish and nurture this organization. I know so many of us have benefitted from the strong NMGIC community throughout the state, and I would like to take this anniversary occasion to thank all those who make it happen. In recognition of NMGIC's 30th anniversary, May 2nd 2014 has been proclaimed by Governor Susana Martinez as "New Mexico Geographic Information Council Day". I look forward to another 30 years full of community growth and strength!

The spring workshop this year was titled "Your Data on the Web – Intro to Web Development Concepts". I believe programming skills are becoming an essential part of a GIS professional's toolkit. It seems like around every corner, there is an opportunity to automate a process with a Python script, or to get your GIS map layers onto a website. This is a skill set I am continuing to develop myself, and am pleased we were able to offer a full day of hands-on training focused on GIS and web development concepts. The workshop was a great success and a great springboard to help advance this skill set.

All the hard work put in by the Board of Directors paid off as we enjoyed an excellent program at the spring meeting. I was very excited to welcome Ginny Mason from National Geographic Magazine, and was pleased to be able to bring in this special speaker for the 30 year celebration meeting. I look forward to seeing you all again in the fall!

NMGIC Election Results

2013 NMGIC Board of Directors election. The were elected into the four positions open this year and appointed by the board into the positions shown.

Lisa Arnold, Natural Heritage, New Mexico - President

Amy Ballard, University of New Mexico - Elections Coordinator

Leland Pierce, New Mexico Dept and Game and Fish - Meeting Coordinator

Joseph Zebrowski, New Mexico Highlands University - Speakers Coordinator

The election was conducted on Surveymonkey.com, each dues paid member received a custom hyper-link to the poll. A reminder was sent out to those who had not voted approximately one week before the voting ended. We had a total of 106 members cast ballots. This is up significantly from the recent past. For comparison, we had 57 voters in 2012, 53 in 2011 and 74 in 2010. The Elections Committee consisted of Monica Faux, Warren Hardin, Erle Wright and Kurt Wurm.

Congratulations to our new members of the Board of Directors.

Kurt B. Wurm kwurm@nmsu.edu
Election Coordinator

Do you have information about a project, new techniques, GIS and related issues, announcements, news, etc. that you would like published in the Map Legend?

Don't Forget to pay your

2014 membership dues!!!

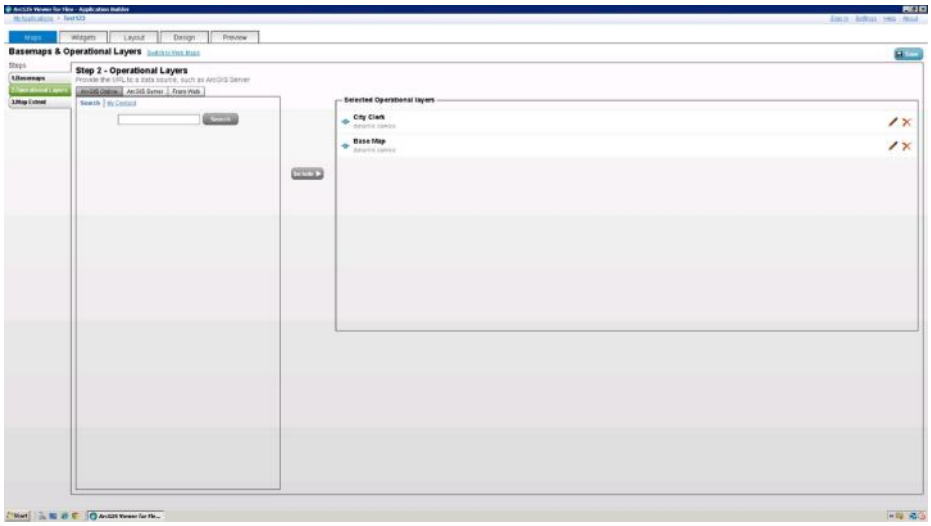
The membership form can be found on our website

http://nmgic.com/membform.html

Rio Rancho—GIS Viewer for Flex

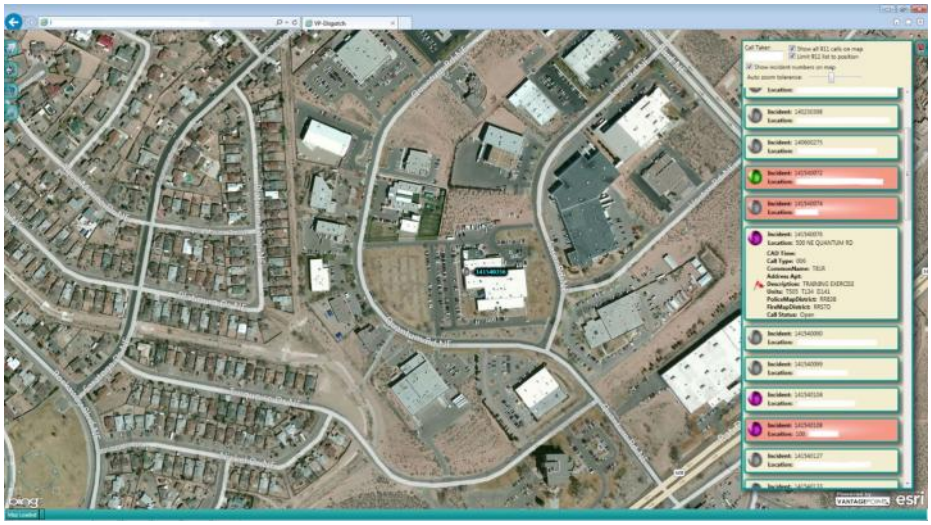
Brian Keller

The City of Rio Rancho is currently working with Geographic Technologies Group (GTG) to create and publish a wide array of web applications for both internal staff use, and for the general public. Using the ArcGIS Viewer for Flex, we are able to quickly deploy custom applications with a few mouse clicks.



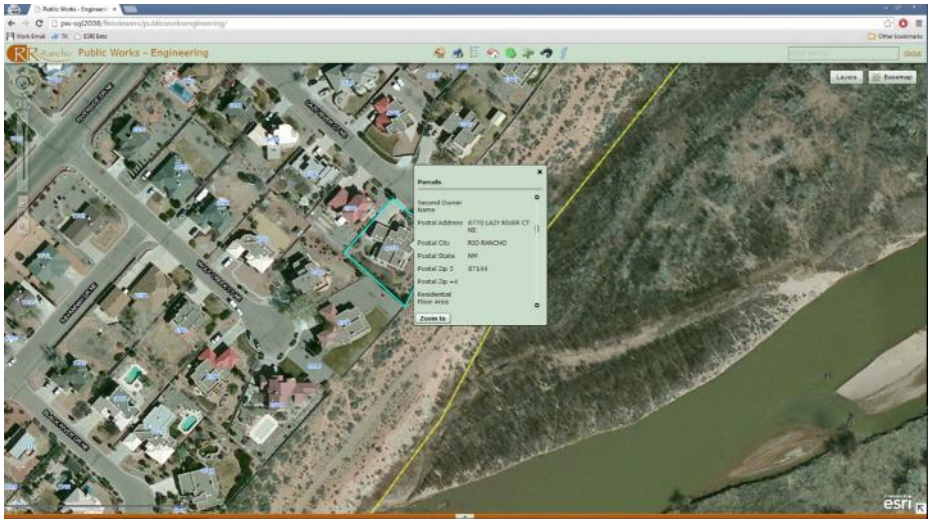
THE FLEX VIEWER

This enables us to create very individualized data viewers to address the wide array of specific needs from our end users.



A CUSTOM FLEX APPLICATION

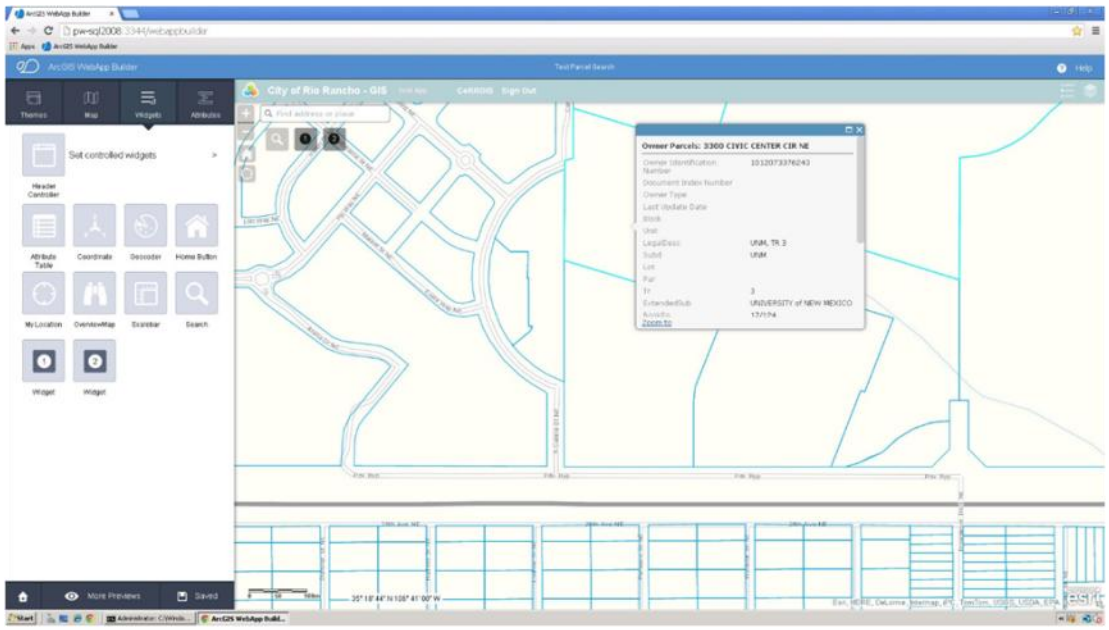
The cornerstone of this fiscal years project scope, is an application for our Public Safety (Police/Fire/EMS/Dispatch) that will geocode call information and display it into an easy to use interface. This allows first responders in the field, as well as Dispatch staff to better view call locations in real time. Combining that call information with up to date aerial photography as well as other relevant GIS layers will provide a powerful tool for our Public Safety employees.



PUBLIC SAFETY APPLICATION

Rio Rancho—GIS Viewer for Flex

Finally, our staff is currently beta testing the ESRI ArcGIS WebApp Builder. A tool similar to the Flex Viewer, but that utilizes the mobile device friendly JavaScript programming language. Utilizing this new technology will help us stay relevant in the coming years and help us provide the best platforms for delivering information to the public and staff.



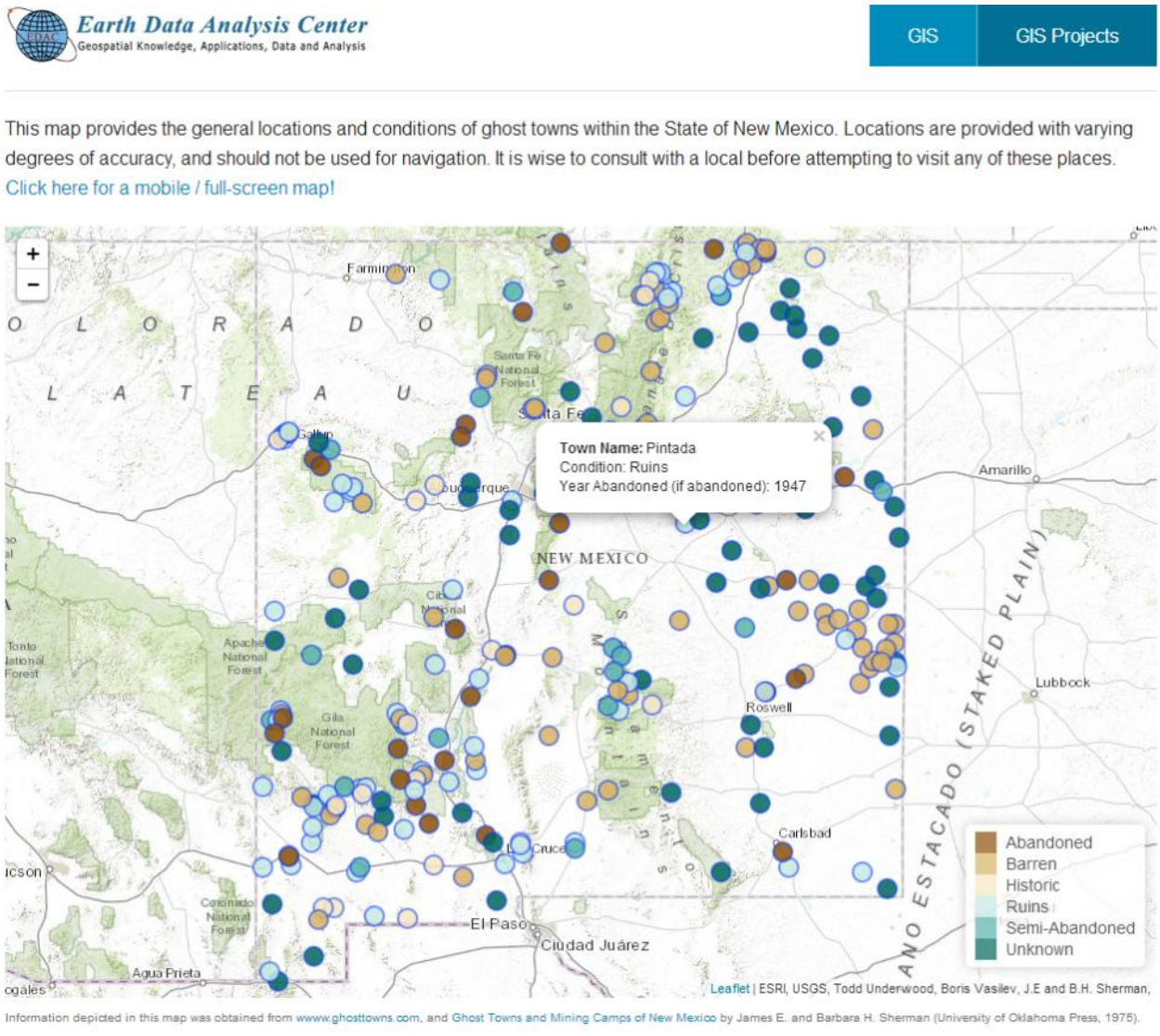
THE ARCGIS WEBAPP BUILDER

New Historical New Mexico Data

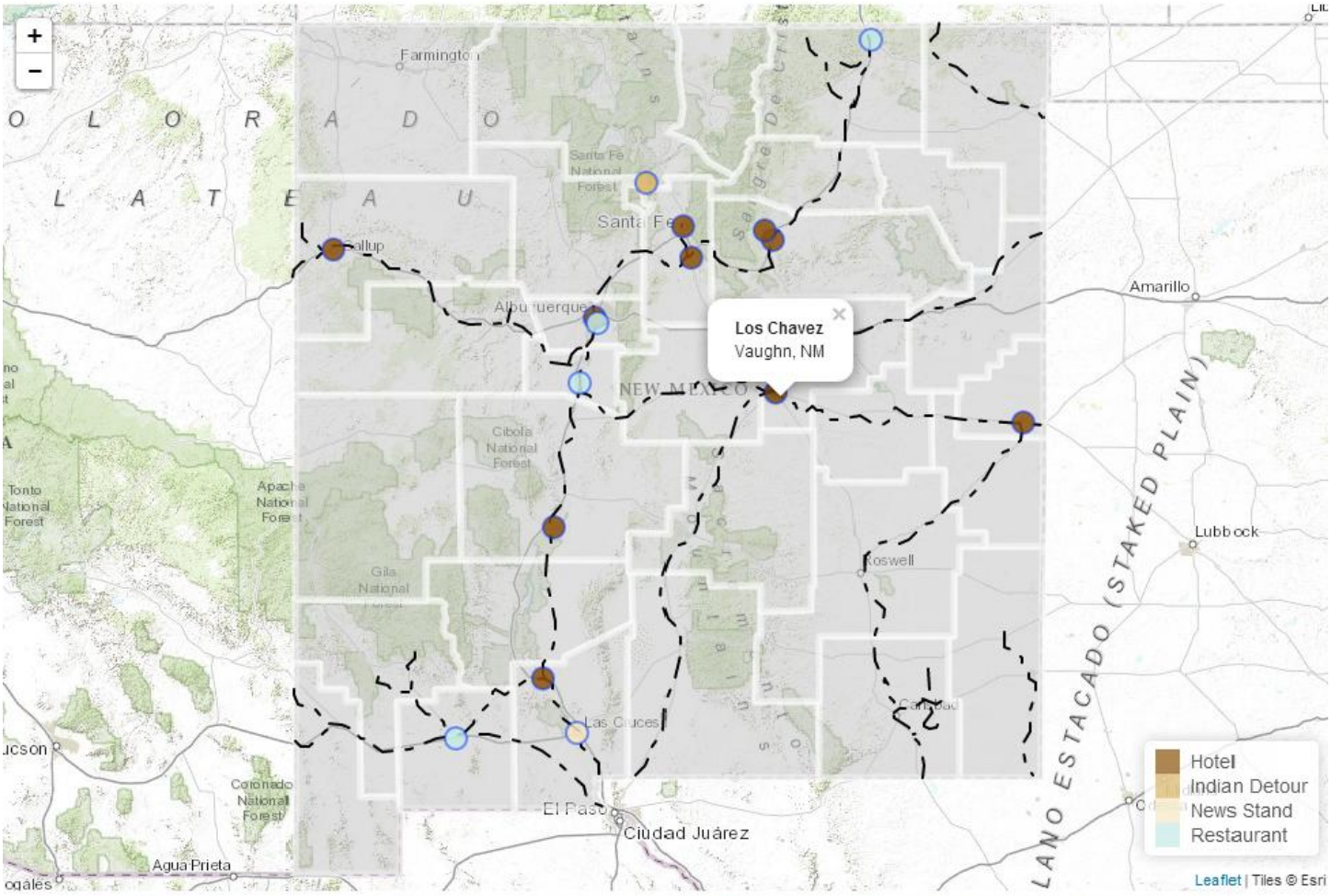
Mike Camponovo

If you are interested in New Mexico history or planning a road trip this summer, you may be interested in two new data sets that are available on RGIS and as interactive web maps. The Ghost Towns data consists of 407 ghost towns scattered around New Mexico. However, only 266 have specific locations that have been mapped. Please download the data set from RGIS, and let EDAC know if you know where any of the remaining 141 should be located.

The Harvey House data consists of 16 stations, hotels, restaurants, newsstands, and sightseeing attractions around the state. One of the Harvey Houses, the Belen Lunch Room, is now a Harvey House Museum and helped provide EDAC with a considerable amount of information. The interactive web maps were built using the open source Leaflet JavaScript library. Shapefiles for the data sets are available from the RGIS Clearinghouse under the Geographic Place and Feature Names folder.



Fred Harvey began building hotels, restaurants, news stands, and sightseeing tours throughout the American Southwest in the late 1800's. Use this map to learn more about Fred Harvey Properties located in New Mexico. Locations are provided with varying degrees of accuracy, and should not be used for navigation. Some locations have been destroyed and others may be on private property. Click here for a mobile / full-screen map!



Information depicted in this map was obtained from harvey-house.info, www.harveyhouses.net, the Belen Harvey House Museum, and Fred Harvey Houses of the Southwest by Richard Melzer (Arcadia Publishing, 2008). The hotel favicon is from icons8.com

nm811
Know what's below.
Call before you dig.

GIS Jobs and Careers Ebook

As a GIS educator, I'd like to make you and your students aware of a free eBook we are offering entitled "GIS Jobs, GISP Certification and Geospatial Careers." The eBook was compiled from past articles published by Directions Magazine. So far, the eBook has generated nearly 1500 downloads and is available at no charge. The contents of the book include:

Prepare to Get That Job: 20 Challenging GIS Interview Questions

Ten Things to Know about the Geospatial Technology Competency Model

New Resources for GIS Job Seekers

Geospatial Occupations Q&A – Part One

Geospatial Occupations Q&A – Part Two

Should You Get "GIS Certified"

Revisiting the Path to GISP: Is it Time to Add an Examination?

The Great Debate: To Certify or not to Certify, That Is an Absurd Question

The Top 10 Things You Should Know about GIS Certification

Do You Qualify for a GISP?

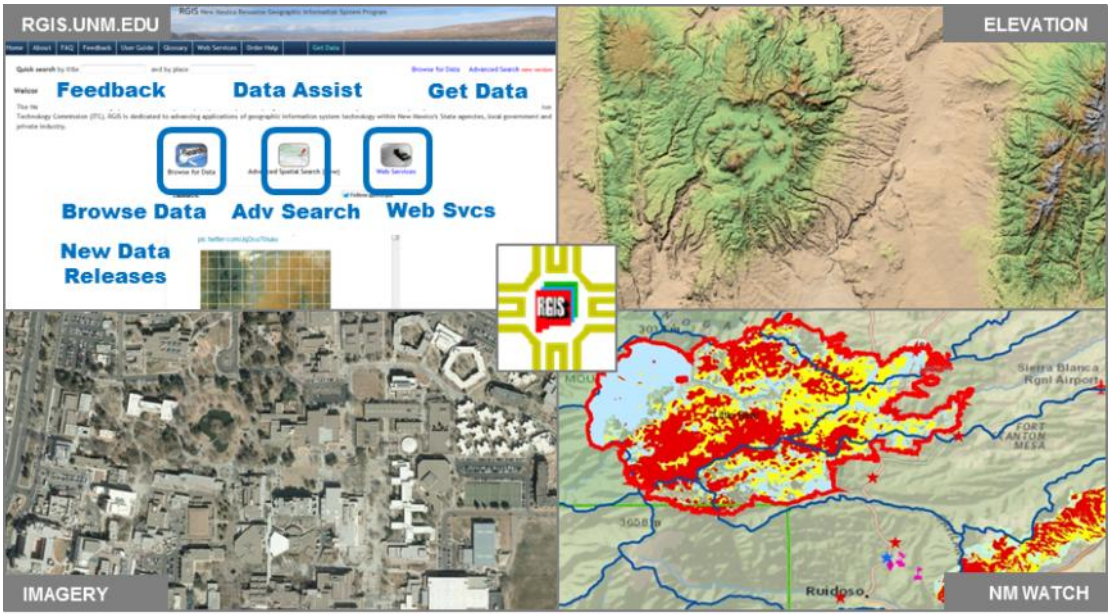
Ethical Insights

Q&A: Directions Magazine's Special Session on GIS Certification with:

David DiBiase, former GISCI President, and Sheila Wilson, GISCI Executive Director

http://www.directionsmag.com/images/ebooks/2013/07/GIS-jobs.pdf

Need Data?



RGIS (Resource Geographic Information System)

The Earth Data Analysis Center (EDAC) has been administrating the Resource Geographic Information System (RGIS), New Mexico's Geospatial Data Clearinghouse, for over 20 years. Last year, RGIS provided over 40 Terabytes of data to State, County, Municipal, Town, Commercial, Federal, and Public interests that support hundreds of projects. So, if you need New Mexico Geospatial Data, contact RGIS.

Contact: Laura Gleasner

Email: lgleasner@edac.unm.edu

Voice: 505.277-3622 Ext 230

RGIS Website: http://rgis.unm.edu/

Los Alamos Technical Associates

http://www.lata.com/

Attention Students in GIT Classes...

NMGIC offers a scholarship worth up to $1000 to students working on GIT programs!!!

See *http://nmgic.com*

NM Crucial Habitat Assessment Tool (NMCHAT)

In late 2014 the New Mexico Crucial Habitat Assessment Tool (NM CHAT) was released to the public. NM CHAT is a web-based map tool with spatial information depicting areas of crucial habitat for fish, wildlife and rare plants across New Mexico. It is designed to aid landscape-level planning efforts and is intended to help industry, natural resources managers, conservation practitioners, and the public pursue economic development while avoiding wildlife conflicts. The New Mexico CHAT is part of the Western Governors' Association's west-wide CHAT project (see **http://westgovchat.org/** for more information on the west-wide tool).

The CHAT website is a collaboration between the New Mexico Department of Game & Fish and Natural Heritage New Mexico at the University of New Mexico.

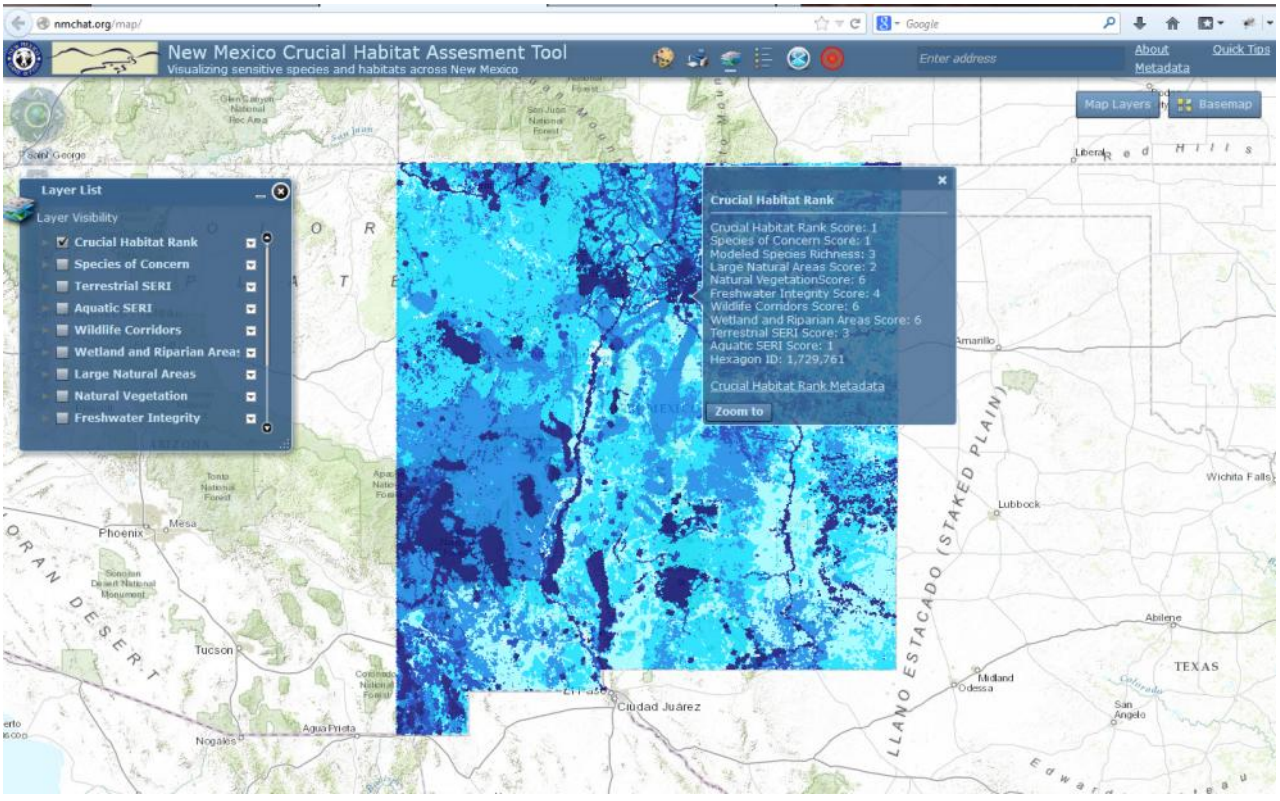
NM CHAT is:

- a conservation information system for energy development planners, natural resources managers, and conservation practitioners.
- a tool to better incorporate wildlife values, sensitive animals and plants, and important natural areas into land use decision-making to reduce conflicts and surprises.

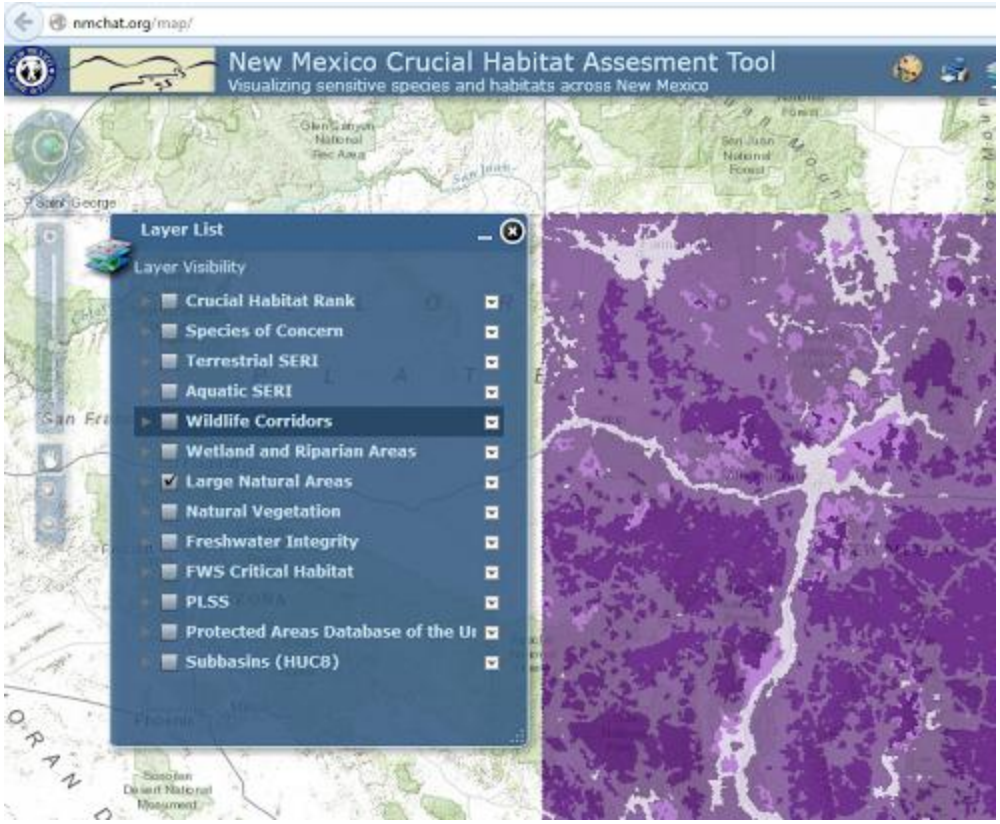
NM CHAT provides:

- landscape-level information on species and habitats.
- a Crucial Habitat Rank at a square-mile scale based on:
    - Species of Concern (animals and plants)
    - Wildlife Corridors
    - Terrestrial Species of Economic and Recreational Importance
    - Aquatic Species of Economic and Recreational Importance
    - Freshwater Integrity (watershed status)
    - Wetland and Riparian Areas
    - Large Natural Areas
    - Natural Vegetation Communities of Concern
- supplemental spatial data to aid project and conservation planning.
- links to other information tools and resources.

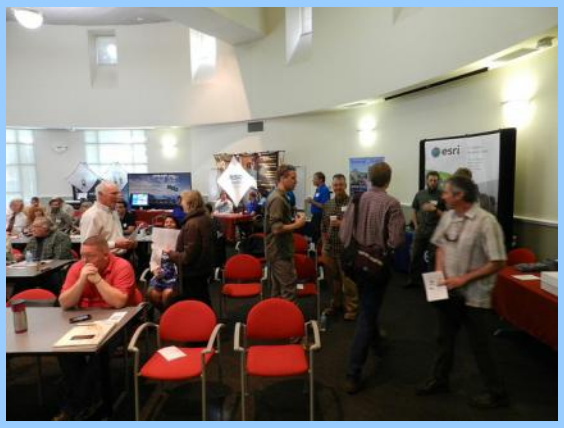
Start using the NM CHAT today at http://nmchat.org/.



NM Crucial Habitat Assessment Tool (NMCHAT)



Spring 2014 Meeting Photos



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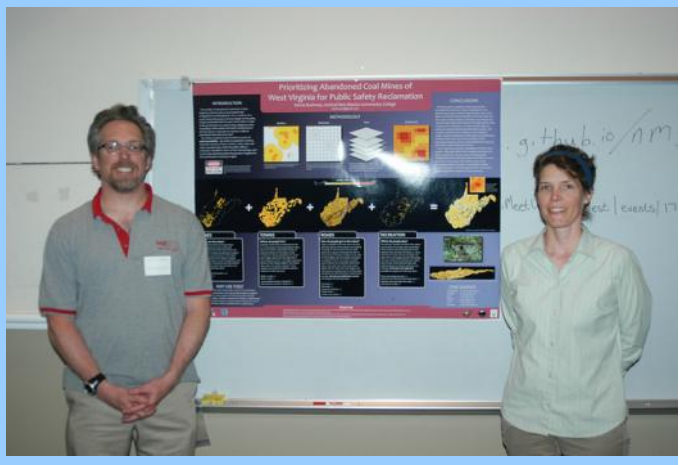

NSGIC Update *by Leland J. S. Pierce, NSGIC Board Member*

The National States Geographic Information Council held its annual Mid-year Conference in Annapolis, MD on February 23-27, 2014. The mid-year is usually focused on federal issues of geospatial policy and this conference was no different. A key aspect were breakout sessions concerning key geospatial policy issues of the times; a report, "Report of stakeholder engagement on four geospatial issues with national importance" is available at http://www.nsgic.org/publications-by-nsgic. The four issues were the National Spatial Data Infrastructure, National Address Point Database, Transportation for the Nation, and Geospatial Response for Emergency Management. Members of the U.S. General Accounting Office were in attendance, gathering information on efficiency of the use of geospatial technology and information in the federal government. Gar Clarke, NM Dept. of Information Technology, attended the mid-year.

NSGIC has reorganized many of their committees and has elevated the Address working group to a full committee. The Annual Conference, which is more focused on state geospatial issues, will be held in Charleston, SC, September 14 – 18, 2014.

Leland Pierce

For more information on NSGIC, visit: http://www.nsgic.org

GIS—Better Decisions through Modeling and Mapping Our World

Businesses manage a world of information. At the core of this information is a geographic location, such as an address, a service boundary, a sales territory, or a delivery route, that can be viewed and analyzed on a map. By using Esri's scalable family of ArcGIS® software, businesses can unite information from many departments to create a common, map-based data display, analysis, and dissemination platform, enabling staff to visualize data in new ways. This geographic data can be used across departments, in the field, and on the Internet, resulting in faster and more informed business decisions.

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Esri Philosophy

Esri believes that better information makes for better decisions. Our reputation is built on contributing our technical knowledge, our special people, and our valuable experience to the collection, analysis, and communication of geographic information. Contact us today to learn how Esri's GIS is helping to manage and improve business operations around the world.

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New Mexico Broadband Mapping Program – Our Perspective

By Sandeep Talasila, Earth Data Analysis Center, University of New Mexico.

Got Broadband …?

Are you among the people who search the Web, telecommute for work, stream videos, send/receive emails, FaceTime with friends and family, and share photos on social networking sites like Facebook, Twitter, Instagram, etc.? Then you are among the privileged group of New Mexicans who have access to reliable broadband to keep in touch with family and the rest of the world.

On the other hand, many don't have access or they have slow Internet connections that keep them from enjoying all these advantages. The New Mexico Broadband (NMBB) Program is working to change this situation by finding ways to provide better Internet access to New Mexicans. And we, the Earth Data Analysis Center (EDAC), are a part of that effort.

The NMBB program, which concludes this year, is part of the five-year State Broadband Initiative (SBI), administered by the National Telecommunications and Infrastructure Administration (NTIA). All the 50 states, 5 territories, and the District of Columbia are grantees, with a common goal to map broadband availability and to facilitate integration of broadband and information technology into state and local economies.

The NM Department of Information Technology (DoIT) is our SBI grantee and manages the program through the state Broadband Program Manager. The program has two primary objectives—to map broadband availability and to enhance broadband adoption. NM DoIT's commitment to collaborate with local groups allowed us, the Earth Data Analysis Center, to be a partner in and to provide geospatial and mapping services for the NMBB Program.

Mapping telecommunications infrastructure and broadband service areas was a new domain for EDAC. Initially, we spent significant time researching and developing data models and processing methods to meet SBI requirements, and techniques to engage NM Internet service providers (ISPs). NTIA provided minimal guidance in the beginning, but as the Program matured, its guidelines and resources improved, which include a collaboration portal for grantees to discuss and resolve common problems. As our knowledge and skillsets matured, EDAC evolved into playing a key role in the broadband community and has helped shape the NMBB Mapping Program to turn the NMBB Program into a successful initiative it is today.

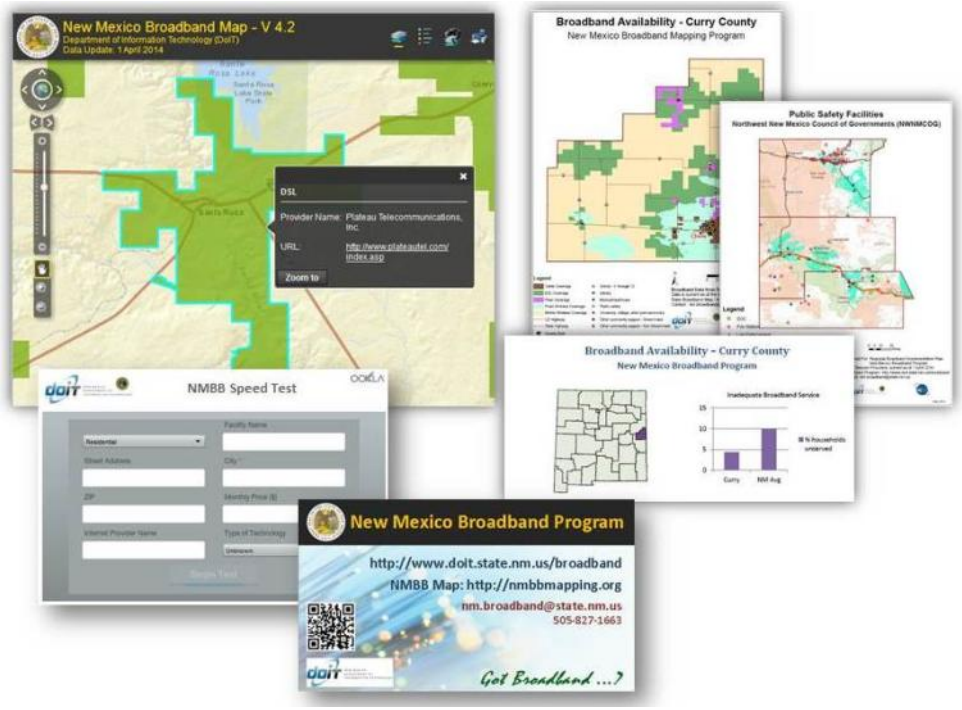


Figure 1: NMBB Program Resources

Broadband Data Processing & Analysis

The NMBB Mapping Program includes data collection, validation, analysis, processing, and delivering data to NTIA—ten data-submittal rounds, twice a year over five years. New Mexico's ISPs play a significant role in the program's success, with their active participation and

cooperation. We (EDAC) process and analyze their broadband data, and then use those data to update the NMBB Map (nmbbmapping.org) and submit them for NTIA's National Broadband Map (broadbandmap.gov).

The NMBB Program identified seventy-six ISPs; of those, fifty-one participated by providing data for one or more rounds of data collection. The program secured Non-Disclosure Agreements (NDA) with each of these ISPs to protect data confidentiality.

We categorize the data processing tasks into four stages: Obtain, Validate, Process, and Report. We collect ISP data for wireline (DSL, Cable, Fiber and Other Copper Wire, such as T1 or ISDN) and wireless (fixed, mobile wireless, and satellite) technologies. We then process and convert them to GIS data using NTIA's definition for broadband service: a two-way data transmission to and from the Internet with advertised speeds of at least 768 kbps downstream and greater than 200 kbps upstream to end users. Finally, we import these data into eight feature classes in the NTIA data model.

- Last-mile: Infrastructure that provides broadband service between end-user equipment and the appropriate broadband access points (protected by NDA, not submitted to NTIA)
- Middle-mile: Interconnection points that provide connectivity between ISP's network and Internet backbone
- Address points: Individual subscriber data (the NMBB Program does not submit subscriber data, which are protected by NDA)
- Community Anchor Institutions: Includes schools, libraries, medical/healthcare institutions, public safety facilities, higher education, government and non-government community support organizations
- Census Blocks: The broadband subscription data per provider per technology are aggregated to Census Blocks (for areas less than 2 sq mi)
- Road Segments: The broadband subscription data per provider per technology are aggregated to the closest road segments (for Census Blocks with area greater than 2 sq mi)
- Wireless: Wireless broadband coverage/ service area per provider per technology
- Service Overview: Broadband speed data aggregated to county per provider per technology

Validation checks are performed throughout the process to ensure data quality and accuracy. The last steps are to create metadata and prepare all the additional NTIA required documentation. The complete package is then sent to the New Mexico Broadband Program Manager for his approval, and the entire data package is submitted to NTIA. Eventually, NTIA uses these data to update the National Broadband Map. See the NMBB Methodology document on the NMBB Portal (www.cio.state.nm.us/broadband) for detailed processing procedures.

New Mexico Broadband Map

We developed the New Mexico Broadband Map (nmbbmapping.org) to identify inadequacies and gaps in broadband availability in New Mexico, which helped the Program to build capacity through recommendations for funding, legislation, construction, and regulation. The NM Broadband Map displays current broadband coverage across New Mexico using the data collected from participating ISPs, per technology type. In addition, the Map displays community anchor institutions (CAIs) and their broadband information, and shows school district boundaries, NM E911 structures, state telecom sites, telephone exchange boundaries, and tribal land boundaries. The NMBB Map is updated after each round of data submittal to NTIA.

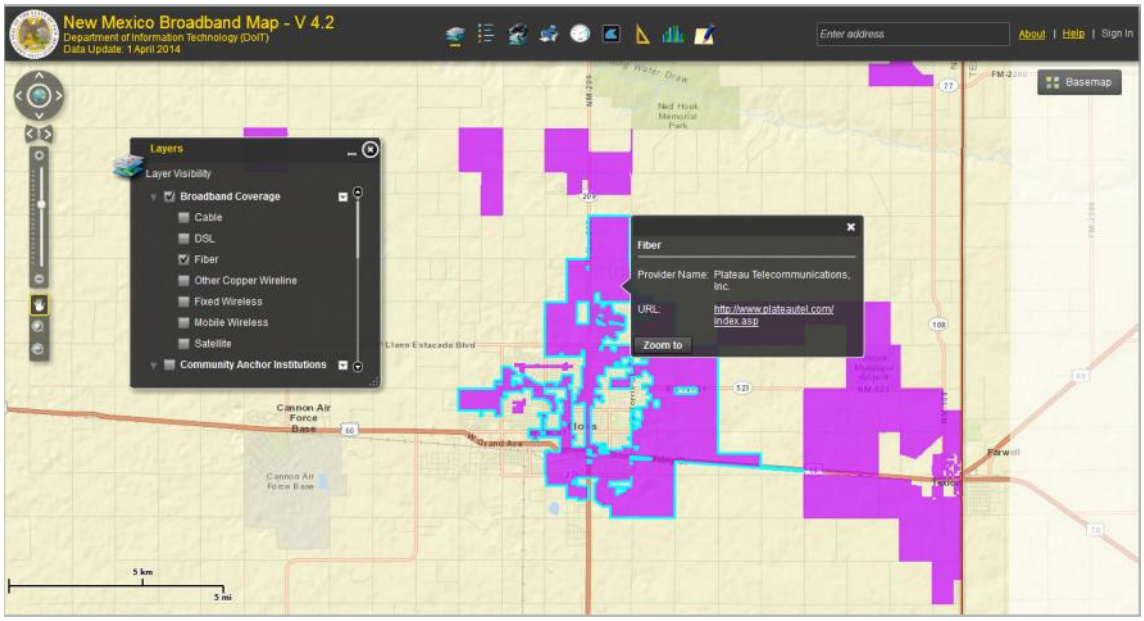


Figure 3: New Mexico Broadband Map

NTIA data procedures tend to over- or under-estimate broadband coverage in rural areas, where sparse populations can result in inclusion of Census Block boundaries that don't represent accurate broadband availability. To address these issues we further process data using Public Land Survey System (PLSS) Section data (for Census Blocks greater than 2 sq mi in area) and several other ancillary GIS data sets from RGIS (rgis.unm.edu). The NMBB Availability Assessment Report on the NMBB Portal (www.cio.state.nm.us/broadband) describes these procedures in detail.

Technology

EDAC has years of experience developing online mapping applications using open source technologies, and through the NMBB Program we diversified our application programming skills by incorporating ArcGIS API for Flex, Esri's Web mapping API technology. ArcGIS API for Flex offered additional basemap options, tool plug-ins, and a cleaner browser interface in addition to the standard map functionality. As an added benefit, the NMBB Map application programming provided the technology and skillset to build other Program activities (such as the Web maps for CASA and NMWatch).

Data Accuracy

Although data collected from ISPs are processed and validated for accuracy, most of the procedures depend on data availability, complexity, and ISP feedback. In some cases the complexity of the process lead to occasional misinterpretation or errors. To mitigate this, we use public feedback about the NMBB Map to validate and/or correct the data. For example, the Map showed Comcast service for a neighborhood near Edgewood, but residents pointed out that there is no Comcast service available in their neighborhood. Comcast's website indicated that services were not available for that neighborhood, but the ISP-provided data said otherwise. With Comcast's support, we received clarification and edited the data to correct the discrepancy on the Map.

Community Anchor Site Assessment (CASA)

As part of its sustainability effort, the Program developed a statewide geospatial database for community anchor institutions: the Community Anchor Site Assessment (CASA) database. EDAC developed the schema and the database, which consists of schools, libraries, medical/healthcare facilities [hospitals, nursing homes, urgent care, school based health centers, and federally qualified health centers], public safety facilities [emergency operation centers, fire stations, law enforcement], higher education [universities, community colleges, and other post-secondary], and government and non-government community resources. This database contains the location information for CAI's and their broadband connectivity, and is updated regularly as and when the data are available.

NMGIC offers a scholarship worth up to $1000 to students working on GIT programs!!!

See *http://nmgic.com*

NM FLOOD.ORG

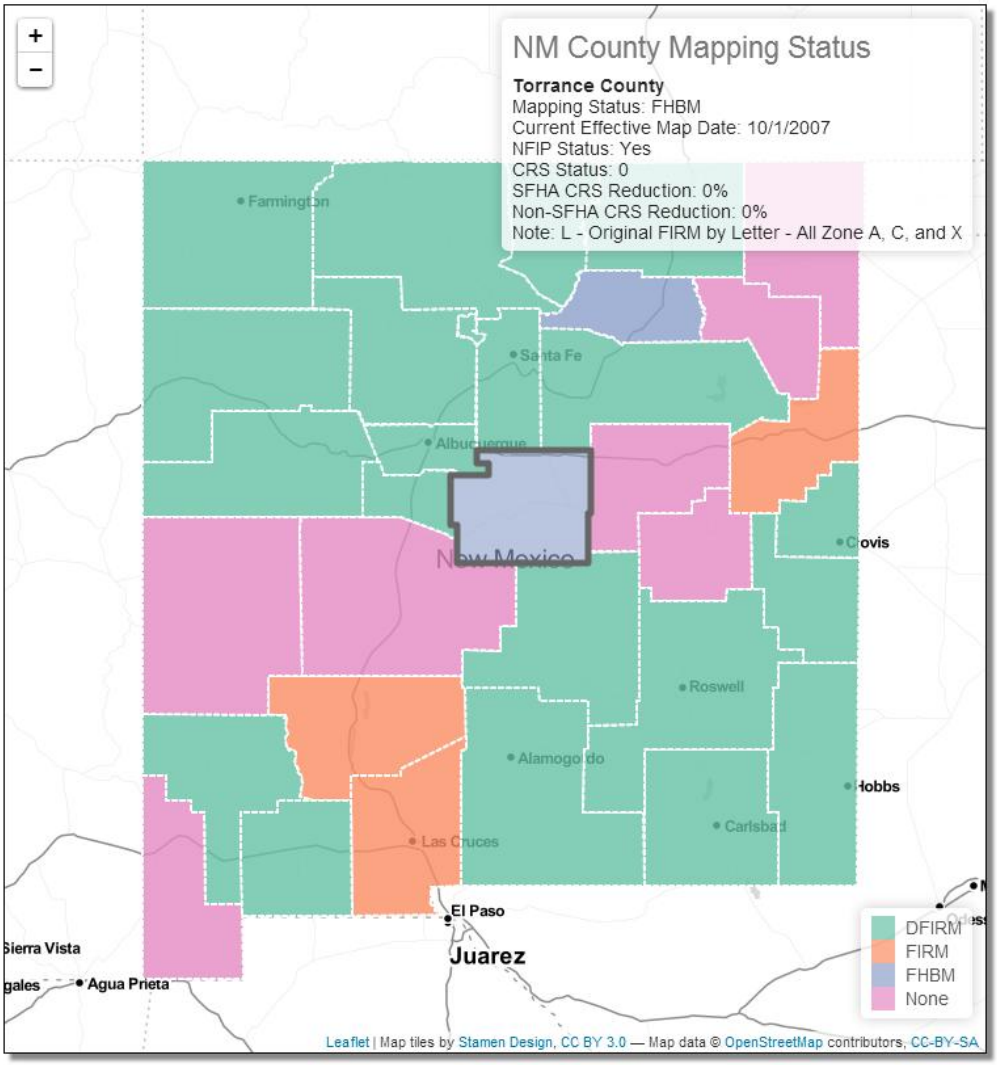
The New Mexico Department of Homeland Security and Emergency Management, Earth Data Analysis Center, and FEMA have formed a partnership to provide the state with interactive geospatial data related to flood hazards through the **nmflood.org** website.

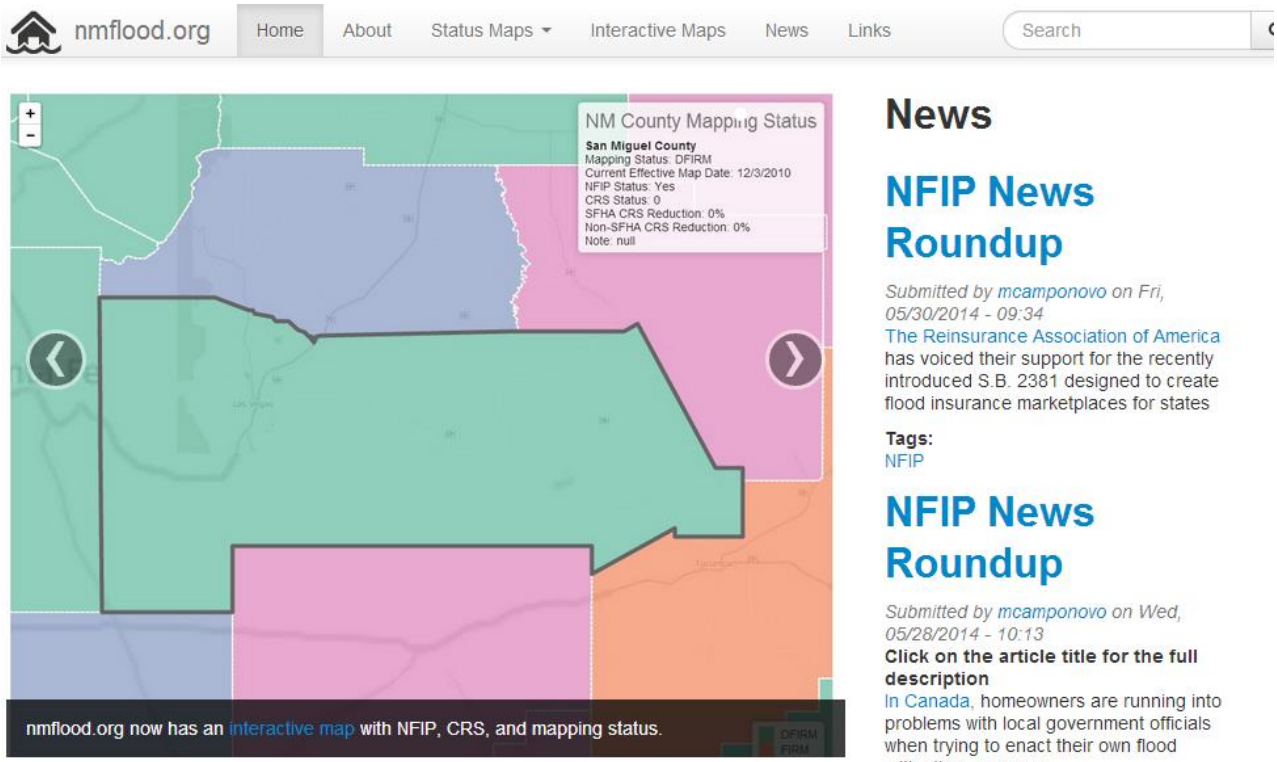
The website provides statewide coverage for the FEMA National Flood Hazard Data for the 21 counties that have been mapped thus far. It also provides best available flood data for Sierra, Catron, Mora, and Torrance Counties in the form of heads-up-digitized FEMA Flood Hazard Boundary Maps.

Interactive maps were built using the ESRI JavaScript API and utilize REST services published on ArcServer 10.1. An interactive status map providing a statewide overview of National Flood Insurance related data was built using the open source Leaflet JavaScript library.

All of the flood related data are also available for download from the RGIS Geospatial Clearinghouse in Water Resources -> Flood Hazard folder.

The **nmflood.org** site also has a blog where visitors can check on updates to statewide flood and emergency training opportunities, updates to the National Flood Insurance Program, and flood related news articles.





Welcome

Welcome to nmflood.org. Our goal is to provide floodplain administrators, emergency managers, community officials, and private citizens access to data relevant to flooding in New Mexico. A variety of static and interactive maps are provided as well as links to important flood related websites.

News

NFIP News Roundup

Submitted by mcamponovo on Fri, 05/30/2014 - 09:34

The Reinsurance Association of America has voiced their support for the recently introduced S.B. 2381 designed to create flood insurance marketplaces for states

Tags:
NFIP

NFIP News Roundup

Submitted by mcamponovo on Wed, 05/28/2014 - 10:13

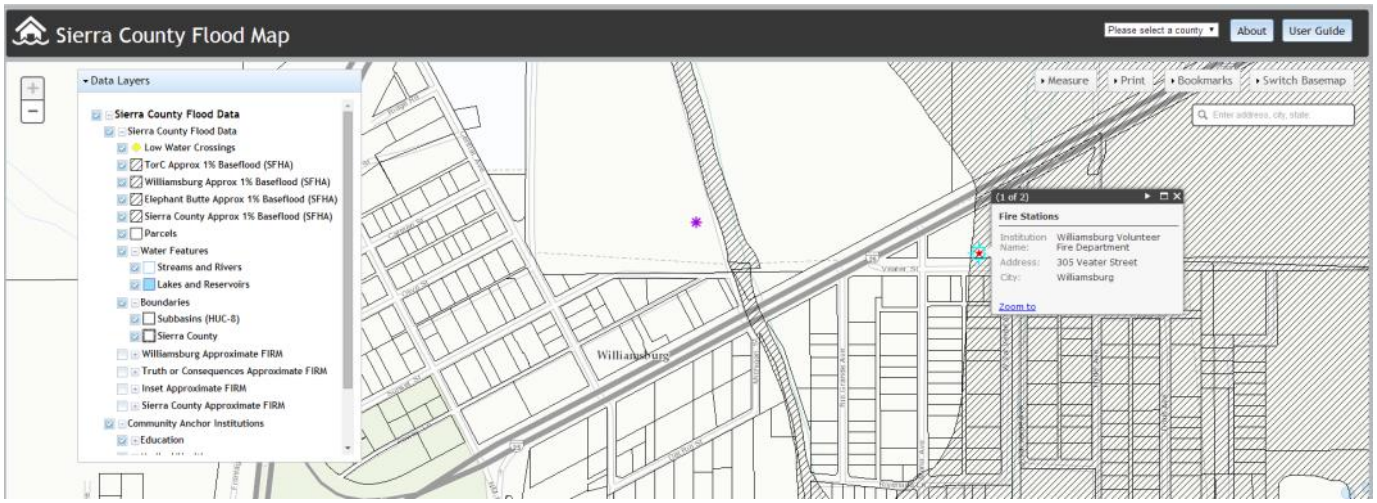
Click on the article title for the full description

In Canada, homeowners are running into problems with local government officials when trying to enact their own flood mitigation measures.

Tags:
NFIP
FEMA

HFIAA Webinar

Submitted by mcamponovo on Wed, 05/28/2014 - 09:16



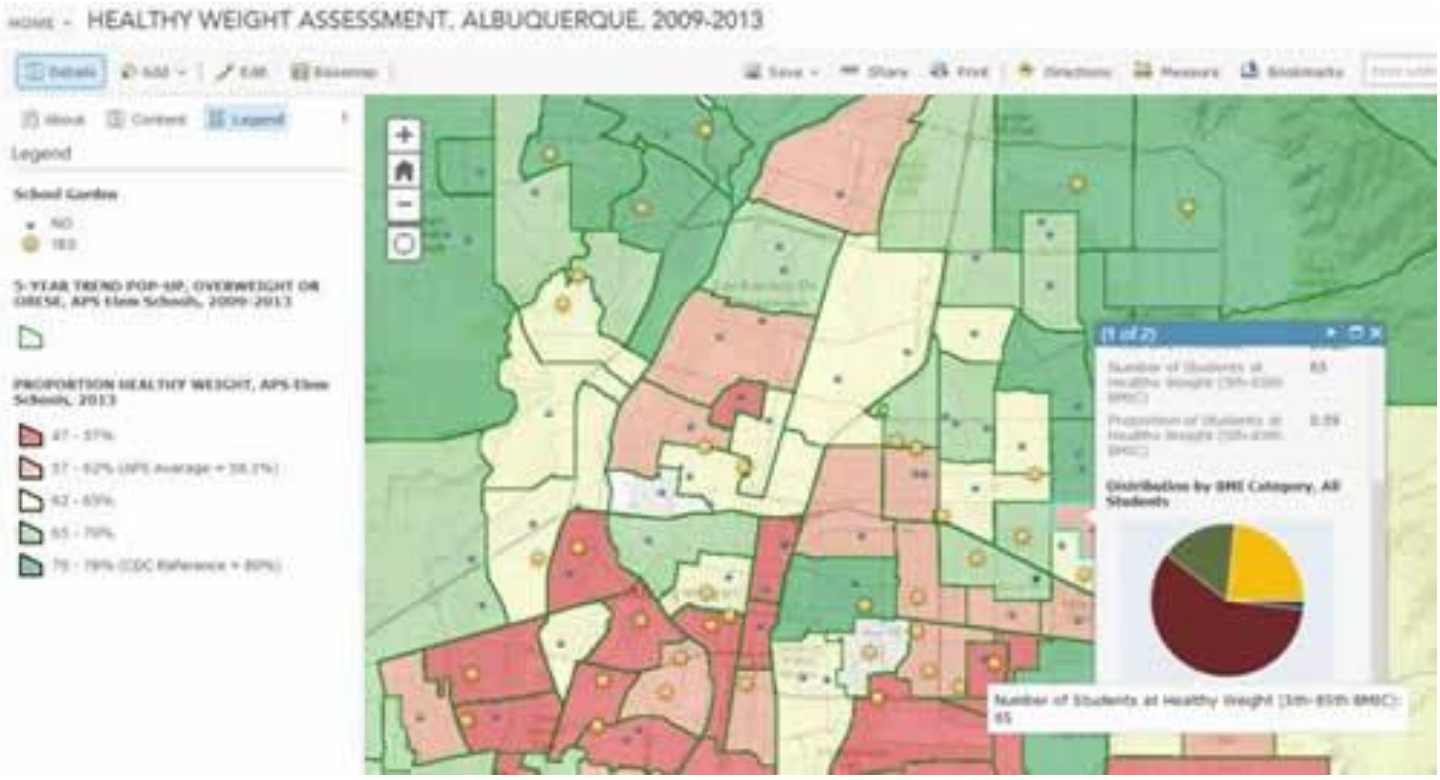
Each year since 2008, nurses at Albuquerque Public Schools weigh and measure over 20,000 children. That is a lot of interaction with students!

The Department of Health Albuquerque Regional Office of Community Assessment processes, maps and promotes the use of the data to assist prevention efforts.

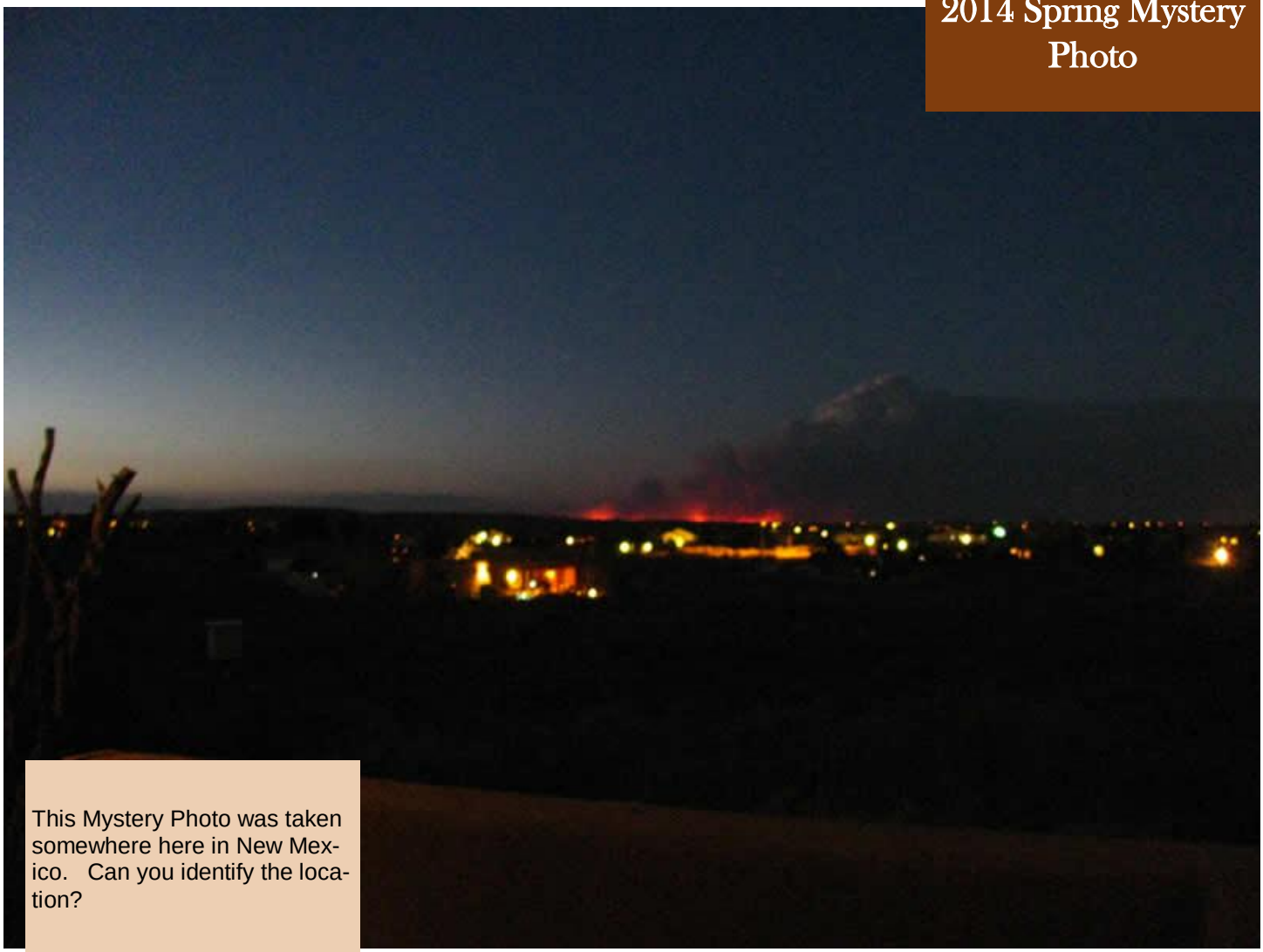
In addition to mapping Albuquerque Public elementary school student BMI categories by grade, the map includes features such as food, recreational and transportation resources, health outcomes and the location of school gardening projects (thanks to the help of Foodcorps and APS Growing Gardens Team).

http://nmcdc.maps.arcgis.com/home/webmap/viewer.html?webmap=a4da832c3613413abd950bcab6067092

Thomas.Scharmen@state.nm.us



2014 Spring Mystery Photo



This Mystery Photo was taken somewhere here in New Mexico. Can you identify the location?

Contact Rick Koehler with your answer—win a prize!

From Editors Desk

Greetings Map Legend Readers,

Well, here is the Spring issue, and technically it is still Spring! So I pulled it off, but it was a close call. I gotta thank our contributors for responding to my appeals and getting me some good stuff to publish. It is our wonderful GIS community that comes together and makes these things happen. I wouldn't be still working with NMGIC if it weren't for all these people that I respect and admire! There are bees to care for and guitars to build, but I enjoy using some of my time to further the NMGIC cause.

I am already considering the Fall issue, which will be published soon after the Fall NMGIC meeting. Please think about an article you can submit, it is not to early, as Fall will be here before we know it! You haven't heard the last from me about this...

Many Thanks,
Jason Fink
mandoFink@gmail.com

NMGIC Member submitted Websites

NMGIC Twitter Feed : http://twitter.com/NMGIC_Inc

NMGIC Facebook :: http://facebook.com/NMGIC_Inc

Here is the link to the "Perilous Journey" article referenced by Ginny Mason during her talk last Friday. So far I haven't found the maps and figures she showed but there is some amazing graphics-see the art gallery-and check out the big gun who wrote the article, if you're of a literary bent. I thought the birds hanging from the sticks were stuck to sap but they're not. The sticks are traps, lined with glue by people that want to use the birds for one purpose or the other.

http://ngm.nationalgeographic.com/2013/07/songbird-migration/franzen-text

For those of you who can't get enough of the Open Data fever that's going around as of late I thought I'd pass on a great website. The interactive compass graphic alone makes the site worth visiting.

http://www.opendata500.com/

Found this on the ESRI Github for applications under 100 lines of code. http://www.zhongxiali.com/StatesMinesweeper/ Github: https://github.com/Esri/100-lines-or-less-js/tree/master/StatesMinesweeper

http://www.rgj.com/viewart/20131212/NEWS07/312120038/Western-governors-show-wildlife-maps-Vegas-meeting

This article explains an app developed to notify your family members in the event of placing a 911 call from your cell phone. It's a nifty app with other features, including locating nearby non-911 services that are helpful in emergency situations, such as fire stations, hospitals, auto repair shops, and hotels. http://www.digitalcommunities.com/articles/New-App-Calls-911-and-Notifies-Family-in-Two-Taps.html

A pretty cool concept, originally proposed by J.W. Powell for the west. Still yet another example how when corporate greed runs roughshod over science, the results are less than desirable! Dave McCraw

http://communitybuilders.net/the-united-watershed-states-of-america/

http://www.skybox.com/

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Corporate: $250.00 - Includes two seats to each meeting, discounted exhibit fees, and an ad in each Map Legend

Payment should be mailed to: NMGIC, Inc. , PO Box 9445 Albuquerque, NM 87119-9445

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