Integrating Technology into the Natural Resources Classroom Through APPS

Erin T. Riley, SIPI
Dr. Amy Ganguli, NMSU

FALCON
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Why Use Technology?

- Facilitate Communication Skills
- Foster Active and Problem-Based Learning
- Increase Information Access and Networking
- Teach Technological Skills for the Workplace
Facilitate Communication Skills

Good afternoon, I will not make the field trip tomorrow due to our dept being tasked by our governor to man check points for the traditional deer hunts tomorrow.... I will be pulling teeth for aging and takn samples for CWD testing...please send me the assignment to make up in place of the trip.

Hi Erin this is just... I am trying to submit my work on blackboard but I can't seem to get my internet connection. I was wondering if it was ok if I try to submit it tomorrow?
Foster Active and Problem-Based Learning

Grass Snap
## Observers

<table>
<thead>
<tr>
<th></th>
<th>566</th>
<th>443</th>
<th>562</th>
<th>967</th>
<th>1,466</th>
<th>1,644</th>
<th>4,258</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Observers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Days Observed/Observer</td>
<td>25.34</td>
<td>10.1</td>
<td>12.14</td>
<td>13.9</td>
<td>12.2</td>
<td>11.64</td>
<td>17.88</td>
</tr>
<tr>
<td>Registered Sites</td>
<td>0</td>
<td>77</td>
<td>1,188</td>
<td>1,583</td>
<td>3,382</td>
<td>2,742</td>
<td>14,063</td>
</tr>
<tr>
<td>Active Sites</td>
<td>2,620</td>
<td>615</td>
<td>906</td>
<td>1,450</td>
<td>1,576</td>
<td>1,668</td>
<td>6,721</td>
</tr>
</tbody>
</table>

## Observations

<table>
<thead>
<tr>
<th></th>
<th>146,413</th>
<th>31,335</th>
<th>55,384</th>
<th>117,255</th>
<th>117,255</th>
<th>143,313</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status Records</td>
<td>257,617</td>
<td>218,849</td>
<td>430,602</td>
<td>931,993</td>
<td>931,993</td>
<td>1,172,704</td>
</tr>
</tbody>
</table>

## Observed Organisms

<table>
<thead>
<tr>
<th></th>
<th>5,439</th>
<th>2,726</th>
<th>4,527</th>
<th>8,477</th>
<th>8,477</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observed Plants</td>
<td>5,395</td>
<td>2,203</td>
<td>3,425</td>
<td>6,501</td>
<td>6,501</td>
</tr>
<tr>
<td>Observed Animals</td>
<td>44</td>
<td>523</td>
<td>1,102</td>
<td>1,976</td>
<td>1,976</td>
</tr>
</tbody>
</table>

## Species Observed/Observer

<table>
<thead>
<tr>
<th></th>
<th>2.84</th>
<th>3.73</th>
<th>4.63</th>
<th>5.27</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plants Species Observed/Observer</td>
<td>2.78</td>
<td>2.95</td>
<td>3.55</td>
<td>3.72</td>
</tr>
</tbody>
</table>

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### All Time Top Plant Species Observed

<table>
<thead>
<tr>
<th>RANK</th>
<th>SPECIES</th>
<th>NUMBER OF OBSERVATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>red maple (Acer rubrum)</td>
<td>19042</td>
</tr>
<tr>
<td>2</td>
<td>common lilac (Syringa vulgaris)</td>
<td>18709</td>
</tr>
<tr>
<td>3</td>
<td>coyotebrush (Baccharis pilularis)</td>
<td>15328</td>
</tr>
<tr>
<td>4</td>
<td>Eastern Mojave buckwheat (Eriogonum fasciculatum)</td>
<td>11485</td>
</tr>
<tr>
<td>5</td>
<td>Red Rothomagensis lilac (Syringa chinensis)</td>
<td>9623</td>
</tr>
<tr>
<td>6</td>
<td>valley oak (Quercus lobata)</td>
<td>8598</td>
</tr>
<tr>
<td>7</td>
<td>California live oak (Quercus agrifolia)</td>
<td>8426</td>
</tr>
<tr>
<td>8</td>
<td>quaking aspen (Populus tremuloides)</td>
<td>8261</td>
</tr>
<tr>
<td>9</td>
<td>sugar maple (Acer saccharum)</td>
<td>7054</td>
</tr>
<tr>
<td>10</td>
<td>black elderberry (Sambucus nigra)</td>
<td>6732</td>
</tr>
<tr>
<td>11</td>
<td>chamise (Adenostoma fasciculatum)</td>
<td>6726</td>
</tr>
<tr>
<td>12</td>
<td>American beech (Fagus grandifolia)</td>
<td>6552</td>
</tr>
<tr>
<td>13</td>
<td>forsythia (Forsythia spp.)</td>
<td>5797</td>
</tr>
<tr>
<td>14</td>
<td>flowering dogwood (Cornus florida)</td>
<td>5146</td>
</tr>
<tr>
<td>15</td>
<td>northern red oak (Quercus rubra)</td>
<td>4642</td>
</tr>
<tr>
<td>16</td>
<td>eastern redbud (Cercis canadensis)</td>
<td>4353</td>
</tr>
</tbody>
</table>
Foster Active and Problem-Based Learning

Blackboard, Desire2Learn, Angel
Increase Information Access and Networking

Soil Web (Application)
Increase Information Access and Networking

- Facebook, Twitter, Instagram, Hootsuite etc.....
Increase Information Access and Networking

Dropbox (Application), Google Drive
Teach Technological Skills for the Workplace (Google Earth: Streaming USDA Soil Survey Data)

(California Soil Resource Lab)

Download Site: http://casoilresource.lawr.ucdavis.edu/drupal/node/538
PLSS Data In Google Earth
(BLM Public Land Survey System)

(Earth Point Township)
Download Site: http://www.earthpoint.us/Townships.aspx
Climate Data In Google Earth (IPCC Climate Change Scenarios)

Download Site: http://sitescontent.google.com/google-earth-for-educators/classroom-resources/lesson-plan-library/impact-of-climate-change
Wildfire Data In Google Earth
(Wildfire Incidents in the United States)

Geo-referencing Photos

Images from Macworld.com; picasa.google.com; earth.google.com; nikonusa.com
Where to Find More Information

http://sitescontent.google.com/google-earth-for-educators/
Selection of web-based resources and tools that enhance and augment Google Earth Capabilities

Google Earth:
http://www.google.com/earth/index.html

Streaming USDA Soil Survey Data, available through the California Soil Resource Lab:
http://casoilresource.lawr.ucdavis.edu/drupal/node/538

Public Land Survey System (PLSS), available from Earth Point Township:
http://www.earthpoint.us/Townships.aspx

Climate Data, IPCC Climate Change Scenarios:
http://sitescontent.google.com/google-earth-for-educators/classroom-resources/lesson-plan-library/impact-of-climate-change

Wildfire Incidents in the US, from InciWeb:
http://inciweb.org/
http://www.geomac.gov/index.shtml

Picasa:
http://picasa.google.com/

Need more Ideas?
To learn more about how educators can use Google Earth, and where you can go for ideas, help, tutorials, support groups and more!
http://sitescontent.google.com/google-earth-for-educators/
Bee Smart

Select by Pollinator

- All
- Bees/Wasps
- Butterflies/Moths
- Hummingbirds
- Bats
- Beetles

Done

Apache plume
Fallugia paradoxa

Beardlip penstemon
Penstemon barbatus

California brickellbush
Brickellia californica

Common sotol
Dasyllirion wheeleri

Elkweed
Frasera speciosa

Fremont's mahonia
ID Weeds

Identify a weed
Select from a list of attributes to help identify your weed.

Search for a weed
Search for a weed by common name or Latin name.

View weed list
View all of the weeds in the database, sorted by common name or Latin name.

About ID Weeds
Information about the team responsible for the ID Weeds app.

Select
✓ Broadleaf
Grass or grass-like
Utilizing Mobile Applications

Photo Credit: www.Google.com