EZ Guide 3: EZ Guide Online!?
EZ Guide 2 Platform Limitations

- Current Platform – Microsoft Excel 2007
  - 2007 required due to 65,000 row limit in previous versions
  - Limited to Microsoft Windows only
  - Multiple versions of support required - Office 2007, Office 2010, etc.

- Performance limits
  - Default behavior – EVERY calculation redone on EVERY data change
  - Recalculation control programmatically tricky
EZ Guide Platform limitations (cont.)

- Control
  - Control of source code difficult
    - Needed to maintain reproducibility, consistency
- Upgrading and tracking
  - Upgrade completed profiles?
  - How to migrate existing data to newer versions?
  - No centralized tracking and analysis
- Interface Limitations
  - Cannot reuse forms
  - Availability of advanced interfaces
    - “Pop-in” forms
    - Maps
Solution – Move to Online

• Benefits
  • Server-side processing for performance
    • Better control of calculations
  • Platform independent
    • Only requires browser (Mozilla Firefox esp. for cross-platform)
  • Centralized data storage
    • Access from anywhere
    • Allows Clearinghouse to track and monitor Application
  • Application Control
    • Programming stored and controlled centrally
    • Upgrading and migrating can be done universally
Solution – Move to Online

• Cons
  • Available only while online
  • Processes not as transparent (but allows for more concise display)
Development Plans

- Initially focus on implementing EZ Guide 2 features
  - Target release – June 2011

- After release focus on improvements
  - Capabilities extending current EZ Guide features
    - Projections
    - Implemented BMPs
    - Reporting
    - Multi-year calibration
  - Capabilities leveraging the online platform
    - Interactive interfaces
    - Map views and selections
EZ Guide Online - Preview

- Profile Section
  - User and profile management infrastructure

Can associate multiple Utilities to a single Profile
EZ Guide Online - Preview

- Water Supply Analysis

**Monthly Operation Report Analysis**

The FDEP (MORs) contain flow data for the average outflow from each water treatment plant. Monthly data for the most recent ten years are displayed. The average daily flows are analyzed for the past decade in order to better describe the nature of water use for this utility. The user should review their MOR reports for incorrect entries. Errors that have been found include:

- Data entry
- Switching from gallons to million gallons and vice versa
- Missing data reported by FDEP that are on the original MOR that was sent to FDEP

**Monthly Treated Water (Average Gallons Per Day)**

Source: Florida Department Of Environmental Protection

**Monthly Operational Reports (Average Gallons Per Day)**

Source: Florida Department Of Environmental Protection

**Year for Analysis: 2008**

NOTICE: Saving a new analysis year may take several minutes

** UF Environmental Engineering Sciences**

Conserve Florida Water Clearinghouse
• Water Supply Data

### Analysis Year: 2008 - To change the Analysis Year return to Water Supply Analysis page

#### DEP Monthly Operation Report Flow Data - Click on column header to sort the column

<table>
<thead>
<tr>
<th>Month Year</th>
<th>Millions Of Gallons Per Month</th>
<th>Average Gallons Per Day</th>
<th>Quartile Validity</th>
<th>Days In Month</th>
<th>Data Source</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 2007</td>
<td>812,585</td>
<td>26,212,452</td>
<td>OK</td>
<td>31</td>
<td>DEP</td>
<td></td>
</tr>
<tr>
<td>Jan 2008</td>
<td>659,797</td>
<td>26,038,011</td>
<td>OK</td>
<td>31</td>
<td>DEP</td>
<td></td>
</tr>
<tr>
<td>Feb 2007</td>
<td>746,059</td>
<td>26,644,062</td>
<td>OK</td>
<td>28</td>
<td>DEP</td>
<td></td>
</tr>
<tr>
<td>Feb 2008</td>
<td>520,407</td>
<td>21,303,195</td>
<td>OK</td>
<td>29</td>
<td>DEP</td>
<td></td>
</tr>
<tr>
<td>Mar 2007</td>
<td>888,029</td>
<td>28,000,934</td>
<td>OK</td>
<td>31</td>
<td>DEP</td>
<td></td>
</tr>
<tr>
<td>Mar 2008</td>
<td>718,850</td>
<td>25,188,050</td>
<td>OK</td>
<td>31</td>
<td>DEP</td>
<td></td>
</tr>
<tr>
<td>Apr 2007</td>
<td>805,950</td>
<td>28,888,345</td>
<td>OK</td>
<td>30</td>
<td>DEP</td>
<td></td>
</tr>
</tbody>
</table>

#### Basic Facility Reports (BFR) - Click on column header to sort the column

<table>
<thead>
<tr>
<th>Year</th>
<th>Number Of Plant IDs</th>
<th>Design Capacity Gallons/Day</th>
<th>Number Of Plants</th>
<th>Service Connections</th>
<th>Population Served</th>
<th>Sell To Population</th>
<th>Data Source</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>1</td>
<td>40,000,800</td>
<td>1</td>
<td>68,594</td>
<td>233,079</td>
<td>14,035</td>
<td>DEP</td>
<td></td>
</tr>
</tbody>
</table>
EZ Guide Online - Preview

- Water Audit

<table>
<thead>
<tr>
<th>Link to Supporting Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>M36 - Need Valid Link</strong></td>
</tr>
<tr>
<td>Detailed guidance for conducting a water audit can be found in Audits and Leak Detection. The forms found in this report have been embedded into EZG2.0 as shown by the four to the left. Accuracy. The M36 audit worksheets were developed for the manual. The result, the worksheets are pre-populated with the Model.</td>
</tr>
<tr>
<td><strong>AWWA 4.0</strong></td>
</tr>
<tr>
<td>AWWA Water Loss Control Committee (WLCC) Free Water used in conjunction with the M36 Manual.</td>
</tr>
<tr>
<td><strong>SWFWMD</strong></td>
</tr>
<tr>
<td>Southwest Florida Water Management District Water access the spreadsheet click the SWFWMD link.</td>
</tr>
<tr>
<td><strong>SJRWM</strong></td>
</tr>
<tr>
<td>St. Johns River Water Management District Water Access the form click the SJRWMD link.</td>
</tr>
<tr>
<td><strong>Rural Water Audit</strong></td>
</tr>
<tr>
<td>To download the Excel spreadsheet go &quot;Conservation&quot;</td>
</tr>
</tbody>
</table>

**Water Audit Summary User Inputs**

Audit Frequency: **As Needed**

Audit Method: **M36**

Water Loss Percentage: **15** **Default Value is 15%**

Annual Unbilled Water Use: **0**

How can someone get the actual audit data? Specify a url, contact information. Call 866 and ask for Bob Smith in Audit.
EZ Guide Online - Preview

- Water Budget
EZ Guide Online

More to come!