

Randy Switt

Dept. Of Environmental Engineering Sciences, U. of Florida

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## 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)

# EZ Guide Online - Development

- 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

The screenshot shows the 'Existing Profile' section of the Conserve Florida Water Clearinghouse website. The header includes the logo and the text 'Conserve Florida Water Clearinghouse Promoting Conservation in Our Public Water Supplies'. A navigation bar contains links for Home, Profile, Water Supply Analysis, Audit, Water Budget, BMP Analysis, Measures, Summary Report, BMP Tracking, Wrap Up, and Options. The main content area shows a table of existing profiles.

Links	Profile Name	Status	Permission	Last Modified	Last Modified By
<a href="#">Continue</a>	My first try	In Progress	<a href="#">Manage Permission</a> , Owner	5/4/2010 3:30:42 PM	Randy Switt
<a href="#">Continue</a>	Ken is the best	In Progress	Edit		
<a href="#">Continue</a>	Sample Profile - viewable by everyone	In Progress	View		
<a href="#">Continue</a>	Rick's GRU Prototype Profile	In Progress	Edit		

Can associate multiple Utilities to a single Profile

The screenshot shows the 'Profile' form in the Conserve Florida Water Clearinghouse website. The form includes a navigation bar with links for Home, Profile, Water Supply Analysis, Audit, Water Budget, and BMP Analysis. The form has a sidebar with links for Profile, Contact Person, Permits, and Summary. The main content area shows the 'Profile' form with a description, a list of steps, and a table of associated utilities.

**Profile**  
Typically a utility is associated with one profile, but the system v to Options/Utilities to define it.

This form has two steps:  
1. Name the profile  
2. Associate your profile with one or more utilities

Name of this Profile: Rick's GRU Prototype Profile

Links	Utilities	Data Request Status
<a href="#">Remove</a>	Gainesville Regional Utilities	Complete

[Add Utility](#)

[Save & Continue](#)

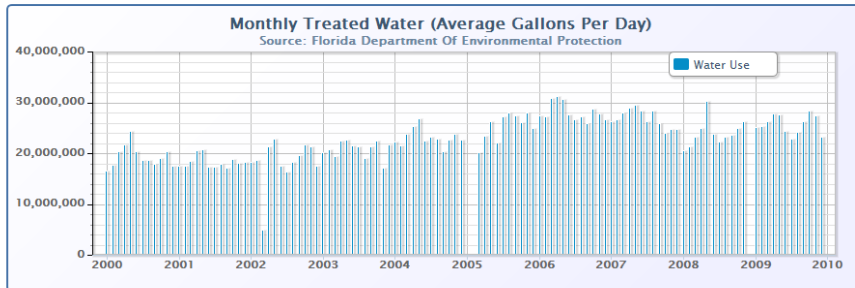
# EZ Guide Online - Preview

- Water Supply Analysis

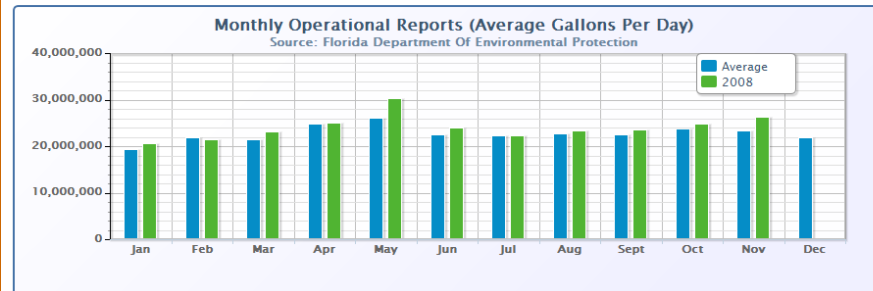
## Monthly Operation Report Analysis

The FDEP (MOR's) contain flow data for the average outflow from each water treatment plant. Monthly data for the most recent ten years are do site. 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 against 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



Year for Analysis: 2008  **NOTICE: Saving a new analysis year may take several minutes**



# EZ Guide Online - Preview

- 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

Month-Year	Millions Of Gallons Per Month	Average Gallons Per Day	Quartile Validity	Days In Month	Data Source	Action
Jan-2007	812.585	26,212,432	OK	31	DEP	
Jan-2008	639.797	20,638,611	OK	31	DEP	
Feb-2007	746.059	26,644,962	OK	28	DEP	
Feb-2008	620.403	21,393,195	OK	29	DEP	
Mar-2007	868.029	28,000,934	OK	31	DEP	
Mar-2008	718.830	23,188,050	OK	31	DEP	
Apr-2007	866.650	28,888,345	OK	30	DEP	

Toggle Defaults

< Previous Continue

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

Month-Year	Millions Of Gallons Per Month	Average Gallons Per Day	Quartile Validity	Days In Month	Data Source	Action
Apr-2007	866.650	28,888,345	OK	30	DEP	
Apr-2008	748.677	24,955,900	OK	30	DEP	
May-2007	915.717	29,539,266	OK	31	DEP	

Toggle Defaults

< Previous Continue

Edit Record

Average Gallons Per Day: 21393195

Submit Cancel

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

Year	Number Of PWS IDs	Design Capacity Gallons/Day	Number Of Plants	Service Connections	Population Served	Sell To Population	Data Source	Action
2009	1	40,000,000	1	66,594	233,079	14,055	DEP	

Toggle Defaults

Page 1 of 1 View 1 - 1 of 1

Continue

Edit Record

Service Connections: 66594

Population Served: 233079

Sell To Population: 14055

Submit Cancel

# EZ Guide Online - Preview

- Water Audit

Link to Supporting Information	
<a href="#">M36 - Need valid link</a>	Detailed guidance for conducting a water audit can be found in the M36 Manual, Audits and Leak Detection. The forms found in this manual have been embedded into EZG2.0 as shown by the four tabs in the screenshot. Accuracy. The M36 audit worksheets were developed by the M36 Manual. As a result, the worksheets are pre-populated with the M36 Manual data.
<a href="#">AWWA 4.0</a>	AWWA Water Loss Control Committee (WLCC) Free Water Audit Worksheet used in conjunction with the M36 Manual.
<a href="#">SWFWMD</a>	Southwest Florida Water Management District Water Audit Worksheet. To access the spreadsheet click the SWFWMD link.
<a href="#">SJRWMD</a>	St. Johns River Water Management District Water Audit Worksheet. To access the form click the SJRWMD link.
<a href="#">Rural Water Audit</a>	To download the Excel spreadsheet go to "Conservation" and click the "Rural Water Audit" link.

**Water Audit Summary User Inputs**

Audit Frequency:

Audit Method:

Water Loss Percentage:  Default Value is 15%

Annual Unbilled Water Use

How can someone get the actual audit data? Specify a url, contact info, or phone number.

# EZ Guide Online - Preview

- Water Budget

Home | Profile | Water Supply Analysis | Audit | **Water Budget** | BMP Analysis | Measures | Summary Report | BMP Tracking | Wrap Up | Options

Calibration Summary

### Water Budget Configurables

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

#### Calibrated Water Budget By Sector

#### Difference Between FDEP and CFWC Estimate

	FDEP Data	CFWC Estimate	% Difference
Total Accounts	66,594	10,338	-84.48%
Population Served	233,079	54,900	-76.45%
Total Water Use (MCY)	264.76	2,324.50	777.96%

#### Water Use Summary By Sector

Sector	% Water Use	Residential Indoor GPCD	Average Gallons		Links
			Gross GPCD	Per Heated Square Foot Per Month	
Single Family	40.2%	64	101	8.32	
Single Family - Indoor	25.4%	64	64	5.27	<a href="#">Details</a>
Single Family - Outdoor	14.7%	--	37	3.05	<a href="#">Details</a>
Multi-Family	6.5%	14	14	4.99	<a href="#">Details</a>
CII	38.4%	--	45	5.22	<a href="#">Details</a>
Commercial	11.0%	--	13	5.16	
Industrial	0.5%	--	1	0.89	
Institutional	26.9%	--	31	5.73	
Unaccounted	15.0%	--	17	4.12	
<b>Total</b>	<b>100.0%</b>	<b>78</b>	<b>160</b>	<b>7.42</b>	

#### Daily Faucet Usage (Gallons Per Day)

Time Period	2	3	4	5 Or More	Total
<1983	0	0	0	0	0
1983-1994	6,471	20,530	1,588	176	28,766
>1994	44,957	263,212	23,307	3,566	335,042
<b>Total</b>	<b>51,428</b>	<b>283,742</b>	<b>24,896</b>	<b>3,743</b>	<b>363,808</b>

#### Summary - Fixture Gallons Per Capita per Day (gpcd)

Time Period	Toilets	Clothes Washers	Showerheads	Faucets	Total
<1983	392,540	0	172,410	0	564,950
1983-1994	53,438	0	33,530	28,766	115,733
>1994	86,464	394,234	109,776	335,042	925,516
<b>Total</b>	<b>532,442</b>	<b>394,234</b>	<b>315,715</b>	<b>363,808</b>	<b>1,606,199</b>

[Back to Summary](#)

Detail Page

# EZ Guide Online

More to come!