

- A new web-based information system for hydrological data storage, data maintenance and data mining
- Based on industry standard Microsoft SQL server, ISAPI extensions and http protocol
- IP clients on PC to update and maintain data from Excel
- On-line graphing and reporting capability
- Allows working by project or comparing data across projects
- Flexible
- Excellent potential as a repository for hydrological projects (funding and interest pending!)



- Designed to make Frog Pond hydrological data accessible to specialists and expert stakeholders
- Data updated bi-weekly
- Will include well elevations at 15 locations within the Frog Pond, weather data, water elevations of canals and ditches, water quality data, ETP data from crops, rainfall at two points, as well as data from BMP project.
- Expected release April 2003 in experimental stage with 2002-2003 Frog Pond data

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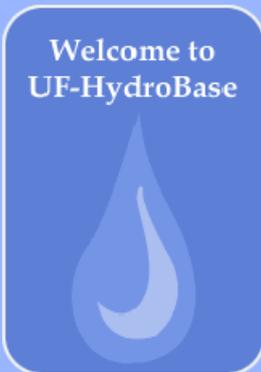
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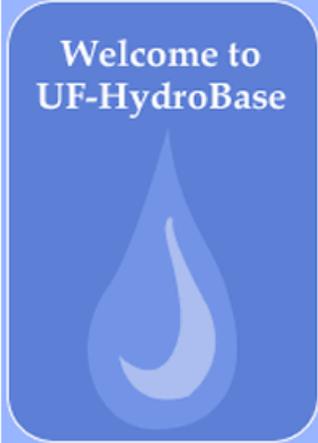
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Data Processing

Weather

- Rain Gauges
- Weather Stations

Surface Water

Ground Water

Water Quality

<http://trec-hydro-4.ifas.ufl.edu/Scripts/MainHY.dll/MainGW> Internet



Hydro Base Stations

?	Project	Type	Name
<input checked="" type="checkbox"/>	FP	CA	Canal C111
<input checked="" type="checkbox"/>	FP	CA	Canal L 31 W
<input checked="" type="checkbox"/>	FP	WL	Well 1
<input checked="" type="checkbox"/>	FP	WL	Well 2
<input checked="" type="checkbox"/>	FP	WL	Well 3
<input checked="" type="checkbox"/>	FP	WL	Well 4
<input checked="" type="checkbox"/>	FP	WL	Well 5
<input checked="" type="checkbox"/>	FP	WL	Well 6
<input checked="" type="checkbox"/>	FP	WL	Well 7
<input checked="" type="checkbox"/>	FP	WL	Well 8
<input checked="" type="checkbox"/>	FP	WL	Well 9
<input checked="" type="checkbox"/>	FP	WL	Well 10
<input checked="" type="checkbox"/>	FP	CA	Tracy Ditch

Metals
 Cd Co Cr Cu Fe Pb Zn Al As Mn M

Micro Elements
 F SO4_S NH4_N NO3_N PO4_P

Macro Elements
 Cl Br

Physical- Chemistry Properties
 pH EC

Macro Elements

Cl Br

Physical- Chemistry Properties

pH EC

Others

Ni P Se

Alkalines

Ca K Mg Na

Period (mm/dd/yy)

From To

Graph Output:

Time Series (Daily Average) Statistics by Stations Time Series(Raw Data takes long)

File Output:

Time Series (seperated) Time Series (XML)

Table Output:

Time Series Statistics by Station
 Statistics by Day Statistics by Day/Station
 Statistics by Week Statistics by Week/Station



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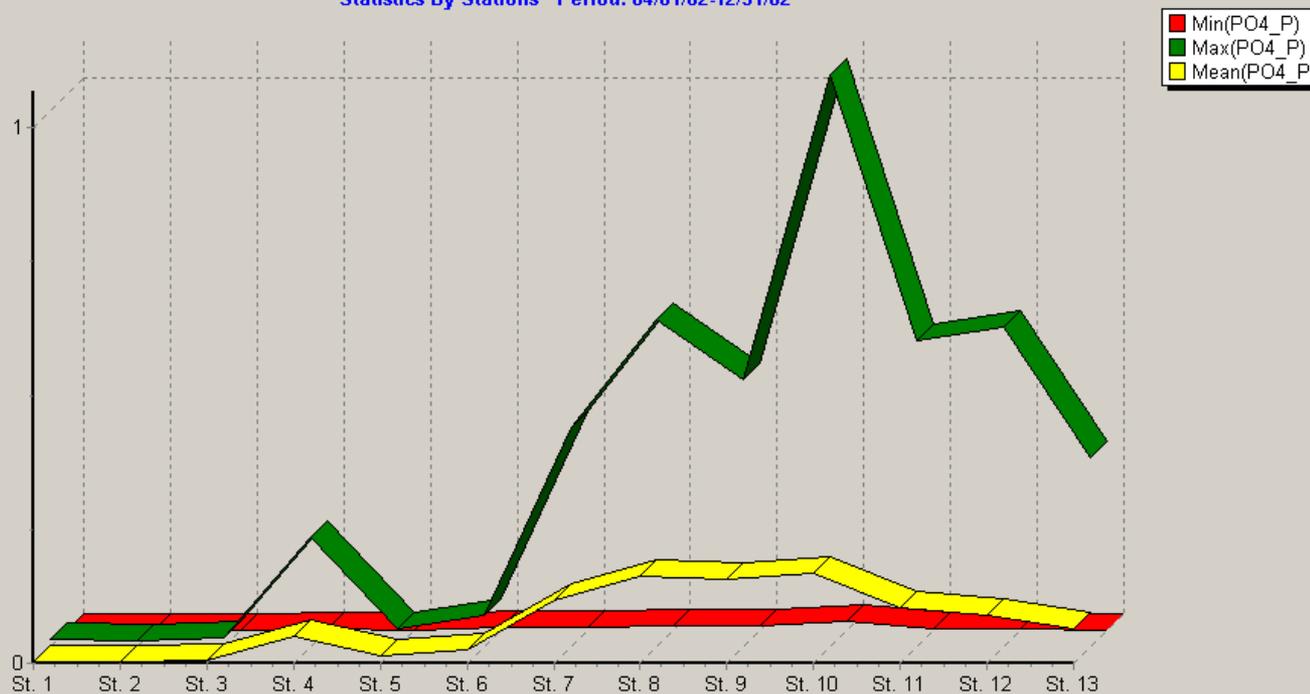
Graphical Analysis

General Graphs

General

2D

Statistics By Stations Period: 04/01/02-12/31/02



Hydro Base Stations

?	Pr.	Type	Name	Lat.	Long.
<input checked="" type="checkbox"/>	FP	WL	Well 1	-80.561	25.418
<input checked="" type="checkbox"/>	FP	WL	Well 2	-80.562	25.418
<input type="checkbox"/>	FP	WL	Well 3	-80.564	25.418
<input type="checkbox"/>	FP	WL	Well 4	-80.565	25.418
<input type="checkbox"/>	FP	WL	Well 5	-80.566	25.418
<input type="checkbox"/>	FP	WL	Well 6	-80.567	25.418
<input type="checkbox"/>	FP	WL	Well 7	-80.569	25.418
<input type="checkbox"/>	FP	WL	Well 8	-80.570	25.418
<input type="checkbox"/>	FP	WL	Well 9	-80.571	25.418
<input type="checkbox"/>	FP	WL	Well 10	-80.572	25.418

Period (mm/dd/yy)

From To

Graph Output:

Time Series (Daily Average)
 Statistics by Stations
 Time Series(Raw Data takes long)

File Output:

From To

Graph Output:

Time Series (Daily Average)
 Statistics by Stations
 Time Series(Raw Data takes long)

File Output:

Time Series (seperated)
 Time Series (XML)

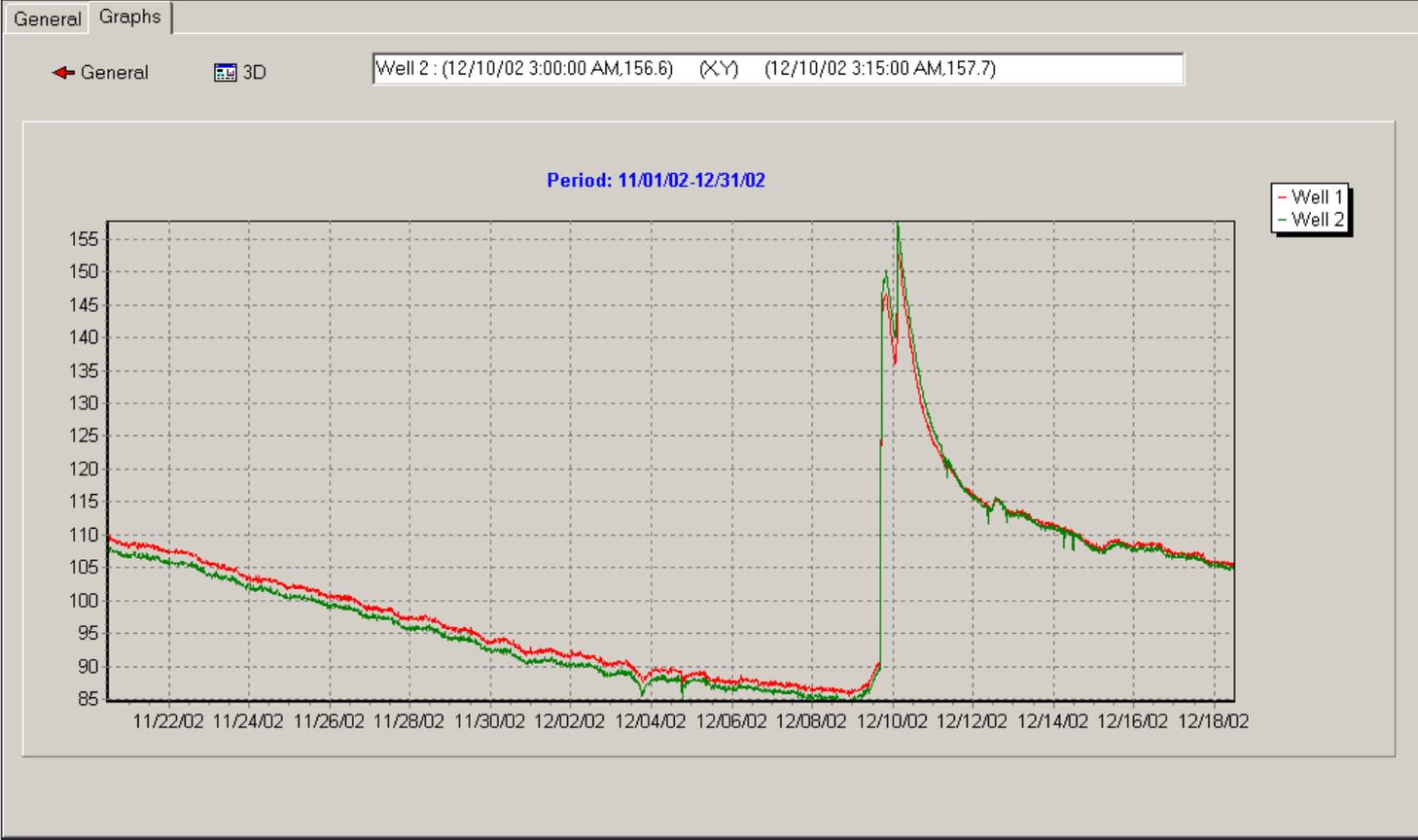
Table Output:

- Time Series
- Statistics by Station
- Statistics by Day
- Statistics by Day/Station
- Statistics by Week
- Statistics by Week/Station
- Statistics by Month
- Statistics by Month/Station
- Statistics by Quarter
- Statistics by Quarter/Station
- Statistics by Year
- Statistics by Year/Station
- Statistics for Whole Period

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Graphical Analysis



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Rain Data Analysis

Statistics By Year/Stations Period 04/01/02-12/31/02

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Graphical Analysis

General Graphs

General 2D

Rain 1: (12/09/02 4:15:00 PM,7.80000019073486) (X,Y) (12/09/02 4:30:00 PM,20.7999992370)

Period: 11/01/02-12/31/02

Legend: Rain 1 (Red), Rain 2 (Green)

Station	Year	Min(Rain)	Max(Rain)	Mean(Rain)	Variance(Rain)	STD(Rain)
Rain 1	2002	0.000000	24.799999	0.048613	0.344262	0.586739
Rain 2	2002	0.000000	24.400000	0.046026	0.323167	0.568478

