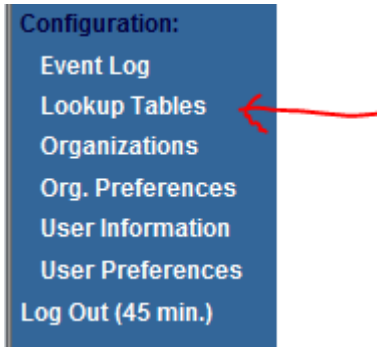
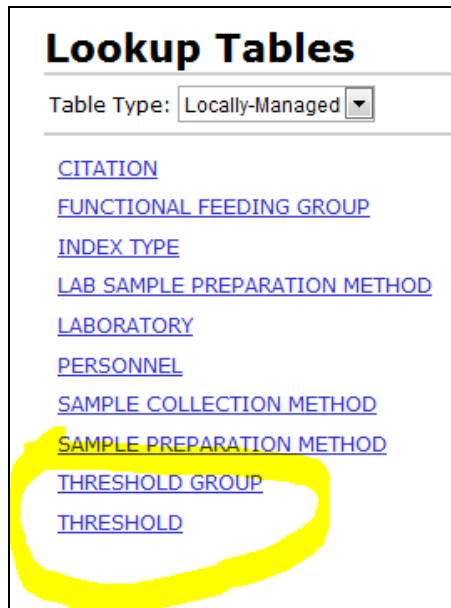


# Overview of the new Threshold Features in AWQMS 1.20

Click the Lookup Tables link in the navigation panel



There are two new lookup tables (shown below)



Click the Threshold Group link

## Lookup Table - Threshold Group

Item(s) saved successfully.

Organization: WQXTEST ▾

	<u>Name*</u>	<u>Last Change Date</u>
<a href="#">Delete</a>	123456789012345678902345678901234567890	9/6/2011 2:44:46 PM
<a href="#">Delete</a>	EPA Standards	10/21/2011 3:20:48 PM
<a href="#">Delete</a>	QA/QC Thresholds	10/21/2011 3:24:03 PM
	<input type="text"/>	

Row 1 - 3 of 3

Create a name for a new Threshold Group (e.g. QA/QC Thresholds) and click Return to save and return to the lookup page

## Lookup Tables

Table Type: Locally-Managed ▾

[CITATION](#)  
[FUNCTIONAL FEEDING GROUP](#)  
[INDEX TYPE](#)  
[LAB SAMPLE PREPARATION METHOD](#)  
[LABORATORY](#)  
[PERSONNEL](#)  
[SAMPLE COLLECTION METHOD](#)  
[SAMPLE PREPARATION METHOD](#)  
[THRESHOLD GROUP](#)  
[THRESHOLD](#)

Click the Threshold link

Pick the new Threshold Group from the dropdown box on the left and then click the "Create New Thresholds" button to populate the list with all the Characteristic, Unit, and Sample Fraction Combinations (CUSC) from your existing data. You can then add/delete rows and add the lower/upper limits for each. In the test environment, you probably don't want to spend a lot of time setting up the limits. Just set up enough that you can use for testing. Click Save/Return when you're done editing.

### Lookup Table - Threshold

Filter Thresholds by Threshold Group:  
 WQXTEST ~ QA/QC Thresholds

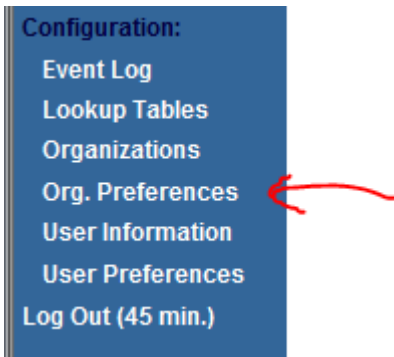
**Create New Thresholds** based on...

- All the Characteristics, Units, and Fractions currently used by this Organization
- All the Thresholds from the Threshold Group below:  
 GOLDMARK ~ NEW MARK

Action	Characteristic	UoM	Sample Fraction	Lower	Upper
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Alkalinity, total</a>	mg/l		5	
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Dissolved oxygen (DO)</a>	mg/l	Dissolved	1	100
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Dissolved oxygen (DO)</a>	mg/l	Total	1	100
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Fecal Coliform</a>	cfu/100ml			50
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Fecal Coliform</a>	MPN/100ml			50
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Hardness, Ca, Mg</a>	mg/l	Dissolved		
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Hardness, Ca, Mg</a>	mg/m2			
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Mercury</a>	mg/l	Dissolved		100
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Mercury</a>	ml	Fixed		50
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">pH</a>	None	Total		
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">pH</a>	None			
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Temperature, water</a>	deg C		-5	45
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Temperature, water</a>	deg F		28	120
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Total dissolved solids</a>	mg/l	Dissolved		
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Total dissolved solids</a>	mg/l			
<a href="#">Delete</a> <a href="#">Duplicate</a>	<a href="#">Turbidity</a>	NTU		0	100
	<a href="#">{none}</a>				

[Return](#) [Save](#) [Cancel](#)

Click on the Org. Preferences link in the Navigation Panel



Now click on your Organization (UTAHDWQ\_WQX)

<b>Organizations</b>	
<u>ID</u>	
<a href="#">TRIBALDEMO</a>	Tribal Demo
<a href="#">KATTEST</a>	Katrina Test for WQX
<a href="#">WQXTEST</a>	WQX Test Organization
<a href="#">GOLDMARK</a>	Gold Systems - Mark
<a href="#">GOLDRICK</a>	Gold Systems - Rick

Pick your new threshold group from the drop down list and set your preferences on the two sets of radio buttons. I assume the defaults are what you will want. Let us know if there are questions on these options. These were mostly created to support other AWQMS users (and were **not** developed with Utah funds).

### Organization Preferences for WQXTEST

Threshold Group for Validating Results:

Validation Type:

- The result's characteristic, unit, and sample fraction must match an entry in the threshold group.
- The result's value must fall within the lower/upper range for the matching threshold.
- All of the above.

Consequence when validation fails:

- Log/Display a warning, but allow the result to be saved.
- Log/Display an error and only allow the result to be saved if it's corrected or the status is changed to 'Rejected'.

No your organization is set up to begin validating the Thresholds and CUSCs on all results entered into the system.

If you import a file that fails one of these two validation checks you will see them listed on the Dataset Summary Page, as well as listed in the log.

### Dataset Summary

Type: Activities and Results  
Import Configuration: [Ryan - Results Demo](#)  
Status: Imported

**Datasets are Temporary**  
Datasets are held in a staging area while you correct any validation errors found during import. You must migrate the dataset to make the data permanent.  
The system will delete this dataset if it remains in the staging area more than 120 days.

**Import**  
Error/Warning/Message: 42 / 0 / 7 [View Log](#)  
Start Time: 10-21-2011 03:15:05 PM  
End Time: 10-21-2011 03:15:35 PM  
File/Transaction ID: Ryan - Results Demo Threshold Test.csv

Record Counts	Valid	Invalid	Validation Errors	Total	Unresolved
Result	7	41	<a href="#">Other</a>	1	1
Activity Group	1	0	<a href="#">Threshold Exceeded</a>	19	19
Activity	5	27	<a href="#">Invalid Characteristic/Unit/Fraction</a>	22	22

Click on the "Invalid Characteristic/Unit/Fraction" link to open the Resolution page.

### Characteristic/Units/Sample Fraction Resolution

This page lists results that do not have a valid characteristic, unit, sample fraction combination. Select a valid combination from the drop down list or change the 'Resolution' option on each row and then save your changes.

Show:

Count	New Characteristic/Unit/Sample Fraction	Characteristic	Unit	Sample Fraction	Result Status	Resolution
1	<input type="text"/>	Alkalinity, total	NTU		Final	<input type="button" value="Modify value manually"/>
1	<input type="text"/>	Alkalinity, total	NTU	Total	Final	<input type="button" value="Modify value manually"/>
1	<input type="text"/>	Alkalinity, total	deg C		Final	<input type="button" value="Modify value manually"/>
3	<input type="text"/>	Dissolved oxygen (DO)	mg/l	Fixed	Final	<input type="button" value="Modify value manually"/>
2	<input type="text" value="Fecal Coliform (cfu/100ml)"/>	Fecal Coliform	NTU	Total	Final	<input type="button" value="Modify value manually"/> <input type="button" value="Modify value manually"/> <input type="button" value="Change status to 'Rejected'"/>

On this page you must pick a valid CUSC or change the Resolution dropdown to "Change status to 'Rejected'" in order to resolve the error. Click the Return button at any point to save your changes and return to the Dataset Summary Page.

### Dataset Summary

Type: Activities and Results  
Import Configuration: [Ryan - Results Demo](#)  
Status: Imported

**Datasets are Temporary**  
Datasets are held in a staging area while you correct any validation errors found during import. You must migrate the dataset to make the data permanent.  
The system will delete this dataset if it remains in the staging area more than 120 days.

**Import**  
Error/Warning/Message: 42 / 0 / 7 [View Log](#)  
Start Time: 10-21-2011 03:15:05 PM  
End Time: 10-21-2011 03:15:35 PM  
File/Transaction ID: Ryan - Results Demo Threshold Test.csv

Record Counts	Valid	Invalid	Validation Errors	Total	Unresolved
Result	7	41	<a href="#">Other</a>	1	1
Activity Group	1	0	<a href="#">Threshold Exceeded</a>	19	19
Activity	5	27	<a href="#">Invalid Characteristic/Unit/Fraction</a>	22	22

Click on the "Threshold Exceeded" link to open the Resolution page.

### Threshold Resolution

This page lists result values in your import file that exceed your organization's allowed thresholds. Correct the value or change the 'Resolution' option on each row and then save your changes.

Show:

Row	Activity ID	Characteristic	Result Value	Unit	Sample Fraction	Result Status	Threshold Min	Threshold Max	Resolution
2	1	Turbidity	<input type="text" value="-0.21"/>	NTU		Final	0	100	<input type="button" value="Modify value manually"/>
23	15	Turbidity	<input type="text" value="1000"/>	NTU		Final	0	100	<input type="button" value="Modify value manually"/>
24	15	Dissolved oxygen (DO)	<input type="text" value="1000"/>	mg/l	Dissolved	Final	1	100	<input type="button" value="Modify value manually"/>
25	16	Temperature, water	<input type="text" value="1000"/>	deg C		Final	-5	45	<input type="button" value="Modify value manually"/>
27	17	Mercury	<input type="text" value="1000"/>	mg/l	Dissolved	Final		100	<input type="button" value="Modify value manually"/> <input type="button" value="Change status to 'Rejected'"/>

On this page you must change the Result Value to something valid or change the Resolution dropdown to "Change status to 'Rejected'" in order to resolve the error. Click the Return button at any point to save your changes and return to the Dataset Summary Page.


### Dataset Summary

Type: Activities and Results  
Import Configuration: [Ryan - Results Demo](#)  
Status: Imported

**Datasets are Temporary**  
Datasets are held in a staging area while you correct any validation errors found during import. You must migrate the dataset to make the data permanent.  
The system will delete this dataset if it remains in the staging area more than 120 days.

**Import**  
Error/Warning/Message: 42 / 0 / 7 [View Log](#)  
Start Time: 10-21-2011 03:15:05 PM  
End Time: 10-21-2011 03:15:35 PM  
File/Transaction ID: Ryan - Results Demo Threshold Test.csv

Record Counts	Valid	Invalid	Validation Errors	Total	Unresolved
Result	7	41	<a href="#">Other</a>	1	1
Activity Group	1	0	<a href="#">Threshold Exceeded</a>	19	18
Activity	5	27	<a href="#">Invalid Characteristic/Unit/Fraction</a>	22	22



When changes are made to data, you must Click the Revalidate Changes button to recheck that everything is valid, then you can migrate the data to make it official.



These same Threshold/CUSC validations are enforced on the Result Detail Page

### Result Detail

**\* Error: The Result Value (-2) is outside the allowed threshold range for Dissolved oxygen (DO) (mg/l) Total. You must correct it or change the Result Status to 'Rejected'**

**Description:**

Activity ID:\*

Data Logger Line:

Characteristic Name:\* [Dissolved oxygen \(DO\)](#)

Method Speciation:

Sample Fraction:

Detection Condition:

Result Value:  Units  Qualifier

**Detection/Quantitation Limits:** [Add](#)

Status:

Statistical Base:

Value Type:

Weight Basis:

Time Basis:

And the Rapid Data Entry Page

## Rapid Data Entry

### Result 1:

\* The Result Value (-1) is outside the allowed threshold range for Dissolved oxygen (DO) (mg/l) Dissolved. You must correct it or change the Result Status to 'Rejected'

Activity ID:

Monitoring Location ID:

Project ID:

Activity Start Date:

Activity Start Time:

Activity Start Time Zone:

Activity Type:

Sample Collection Method ID:

Sample Collection Equipment Name:

Activity Media Name:

Activity Depth/Height Measure:

Activity Depth/Height Unit:

Organization ID:

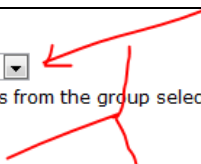
### Translated Fields

Activity Media Name: Soil

Characteristic Name	Result Value	Result Value Type	Result Status ID	Result Detection Condition	Characteristic Name	Method Speciation	Result Sample Fraction	Result Unit
DO	-1	Actual	Final		Dissolved oxygen (DO)		Dissolved	mg/l

You can also use Threshold Groups on the Data Analysis Criteria Page (see below) to quickly populate the lower/upper thresholds used for graphs and reports.

Threshold Group: EPA Standards ~ WQXTEST



When restoring saved criteria, also refresh the lower/upper thresholds from the group selected above (Recommended)

Refresh Characteristics

<input type="checkbox"/>	Characteristic	Measurement Unit	Sample Fraction	Lower Threshold	Upper Threshold	Show Thresholds on Graph?	Result Count
<input checked="" type="checkbox"/>	Alkalinity, total	mg/l		<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	43
<input type="checkbox"/>	Dissolved oxygen (DO)	mg/l		<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	16
<input checked="" type="checkbox"/>	Fecal Coliform	cfu/100ml		<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	6
<input type="checkbox"/>	Hardness, Ca, Mg	mg/l		<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	41
<input type="checkbox"/>	Specific conductance	umho/cm		<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	11
<input type="checkbox"/>	Temperature, water	deg C		<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	20
<input type="checkbox"/>	Total suspended solids	mg/l		<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	44
<input type="checkbox"/>	Turbidity	NTU		<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	48

Activity Type: Field Methods