DESIGN:State Watershed Map

This design is for a wordpress page that will display a map of all the USGS data for a requested state.

It will feature different icon colors to highlight different major hydrologic regions in the state.

Other characteristics of the ICON will be used to indicate the amount of flow. (Keyed on the percentile).

The first time you access the page, it display a form that allow you to pick a state from the dropdown.

When the form is edited, it calls itself with the state as a parameter

When its called with a state as parameter, it displays the map for that state.

|  |  |
| --- | --- |
| USGS State Maps | This is a Wordpress page that allows you to select any state from a dropdown.  <http://gldw.org/state-usgs-data-map/>  If its called after being selected then  http://gldw.org/state-usgs-data-map/?state=CA |
| **getUSGSByState** | **This is a flow on the mirror1 system that returns all the USGS station data for a specified**  **http://mirror1.gldw.org/vdab/get\_USGSByState?state=OH;** |
|  |  |

While it doesn’t necessarily appear to be a form, the page should show the following;

Enter the state name for the map [Drop Down with all states]

## Completion Points

|  |  |
| --- | --- |
| Points | Criteria for earning points. |
| ~~2~~ | ~~Create ohio watershed mapb~~ |
| 2 | Create initial page |
| 1 | Refine page |
|  |  |
|  |  |
|  |  |

## Implementation Notes

1. The initial map routine will be in the page itself. (

function stateUSGSMap() {

getJSON('http://mirror1.gldw.org/vdab/get\_USGSByAnyState?state='+state, function (err, data) {

if (err != null) {

alert("FAILED "+err);

console.error(err);

} else {

//get and build the map.

buildMap(data, buildIcon\_USGS\_State, buildContent\_USGS, 9);

}

});

}

## Steps

1. Add the form to the page.
2. Call the page itself with the state from the form.
3. Create a routine in mapsupport.js that displays the icons as described below. (buildIcon\_USGS\_State).

## Icon Appearance

The Icons should have a different color for different major HU

The Icons should have a different appearance based on percentile

Make the 20x20 centered at 10x10

public static final double VERYHIGH = 97.0D;

// GO THROUGH THE LIST OF STATIONS ONCE

// Find all the unique hydrologic unit major codes. (Unique codes found in the first two digits.)

// ie for Ohio you would find 04 and 05 (put in array?)

// GO THROUGH THE LIST OF STATIONS A SECOND TIME

// For every station that is in the first HU code (in the array), use images in the table below for HU Code A.

var iconName;

if (HUCode.startWith(codes[0]){

if (percentile >= VERYHIGH)

// Use very high icon

iconName = “ huA\_veryhighpcnt.png”

else if (percentile >= HIGH)

// Use high icon

// For every station this is in the second HU code (in the array), use the images in the table below for HU Code B.

// For every station this is in the third HU code (in the array), use the images in the table below for HU Code C.

Do comparison based on a defined level

|  |  |  |
| --- | --- | --- |
| HU | Percentile | Icon name (png) |
| A | 97-100 | huA\_veryhighpcnt.png |
| A | 92-97 | huA\_highpcnt.png |
| A | 90-92 | huA\_mediumhighpcnt.png |
| A | 50-90 | huA\_mediumpcnt.png |
| A | 0-50 | huA\_lowpcnt.png |
| B | 97-100 | huB\_veryhighpcnt.png |
| B | 92-97 | huB\_highpcnt.png |
| B | 90-92 | huB\_mediumhighpcnt.png |
| B | 50-90 | huB\_mediumpcnt.png |
| B | 0-50 | huB\_lowpcnt.png |
| C | 97-100 | huC\_veryhighpcnt.png |
| C | 92-97 | huC\_highpcnt.png |
| C | 90-92 | huC\_mediumhighpcnt.png |
| C | 50-90 | huC\_mediumpcnt.png |
| C | 0-50 | huC\_lowpcnt.png |
| D | 97-100 | huD\_veryhighpcnt.png |
| D | 92-97 | huD\_highpcnt.png |
| D | 90-92 | huD\_mediumhighpcnt.png |
| D | 50-90 | huD\_mediumpcnt.png |
| D | 0-50 | huD\_lowpcnt.png |