<!doctype html>

<!-- (c) Copyright protected by Duke University -->

<html class="no-js" lang="en-US" dir="ltr">

<head>

<!-- Global site tag (gtag.js) - Google Analytics -->

<script async src="https://www.googletagmanager.com/gtag/js?id=G-8571JH7QQQ"></script>

<script>

window.dataLayer = window.dataLayer || [];

function gtag(){dataLayer.push(arguments);}

gtag('js', new Date());

gtag('config', 'G-8571JH7QQQ');

</script>

<meta charset="utf-8">

<meta http-equiv="x-ua-compatible" content="ie=edge">

<title>Boerne Water Dashboard</title>

<meta name="description" content="Boerne water supply status">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="shortcut icon" href="favicon.png">

<link rel="manifest" href="site.webmanifest">

<link rel="apple-touch-icon" href="icon.png">

<!-- Place favicon.ico in the root directory -->

<link rel="preconnect" href="https://fonts.gstatic.com">

<link href="https://fonts.googleapis.com/css2?family=Lato&family=Quicksand:wght@400;600&display=swap" rel= "stylesheet">

<script src="https://code.jquery.com/jquery-3.5.0.min.js" integrity="sha256-xNzN2a4ltkB44Mc/Jz3pT4iU1cmeR0FkXs4pru/JxaQ="

crossorigin="anonymous"></script>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap-theme.min.css" integrity="sha384-rHyoN1iRsVXV4nD0JutlnGaslCJuC7uwjduW9SVrLvRYooPp2bWYgmgJQIXwl/Sp" crossorigin="anonymous">

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js" integrity="sha384-Tc5IQib027qvyjSMfHjOMaLkfuWVxZxUPnCJA7l2mCWNIpG9mGCD8wGNIcPD7Txa" crossorigin="anonymous"></script>

<script src="https://api.mapbox.com/mapbox-gl-js/v2.0.0/mapbox-gl.js"></script>

<link href="https://api.mapbox.com/mapbox-gl-js/v2.0.0/mapbox-gl.css" rel="stylesheet" />

<script src="https://api.mapbox.com/mapbox-gl-js/plugins/mapbox-gl-geocoder/v4.5.1/mapbox-gl-geocoder.min.js"></script>

<link rel="stylesheet" href="https://api.mapbox.com/mapbox-gl-js/plugins/mapbox-gl-geocoder/v4.5.1/mapbox-gl-geocoder.css"

type="text/css"/>

<!-- Promise polyfill script required to use Mapbox GL Geocoder in IE 11 -->

<script src="https://cdn.jsdelivr.net/npm/es6-promise@4/dist/es6-promise.min.js"></script>

<script src="https://cdn.jsdelivr.net/npm/es6-promise@4/dist/es6-promise.auto.min.js"></script>

<script src="https://d3js.org/d3.v5.min.js"></script>

<script type="text/javascript" src="https://cdn.plot.ly/plotly-latest.min.js" defer></script>

<!-- <script src = "js/plotly-latest.min.js"></script> -->

<script src="https://unpkg.com/geojson-vt@3.2.0/geojson-vt.js"></script> <!-- create mapbox vector tiles-->

<link rel="stylesheet" href="css/main\_content.css">

<style type="text/css">

</style>

</head>

<body>

<div class = "row header">

<div class="col-sm-8">

<h1 style="padding-left: 1em;">Boerne Water Dashboard</h1>

<hr style="background-color: #6c019c; height: 5px; margin-top: 1px;">

</div>

<div class="col-sm-2">

<a href = "https://www.ci.boerne.tx.us//149/Utilities"> <img src="img/boerne\_logo.png" style="width: 200px; height: 78px; padding-top: 10px; display: inline-block;"> </a>

</div>

<div class="col-sm-2">

<a href = "https://internetofwater.org/"> <img src="img/iow\_logo.png" style="width: 200px; height: 78px; padding-top: 10px; display: inline-block;"> </a>

</div>

</div>

<!-- EXPLANATION TAB #################################################################################################

####################################################################################################################-->

<div class = "row header" style="margin-left: 20px;">

<p style=" font-size: 14px;"><i><b>Disclaimer:</b> This tool is best viewed in Chrome, Firefox, Microsoft Edge, and Safari.</i></p>

<p style="font-size: 16px;"><span style="color: rgb(108,1,156); font-size: 18px"><b>For a walkthrough of the dashboard, </b></span> please watch this <a href="https://www.youtube.com/watch?v=qurbL8w9JPM" target = "\_blank">video</a>.<br>

<span style="color: rgb(108,1,156); font-size: 18px"><b>To get started,</b></span> select a utility from the map, drop down menu, or type an address.<br>

<span style="color: rgb(108,1,156); font-size: 18px"><b>Next,</b></span> select different tabs on the right to learn more about water supply conditions.<br>

<span style="color: rgb(108,1,156); font-size: 18px"><b>The help icons</b></span> provide more details to understand each tab.

</p>

<h3 class = "chartTitles" id="dataUpdateNotice" style="padding-top: 20px; left: 50%;"></h3>

<br>

<!-- <img id="utilityHelp" style="position: absolute; height: 22px; right: 5px;" src="img/info\_icon.png"> -->

<form name="selectSystem">

<h4 style="display: inline-block">Select a utility on the map, in the drop down menu, or by typing in an address:</h4>&nbsp;

<select style="width: 350px;" name="setSystem" id="setSystem" onchange="setSystemThis(this);">

<option selected = "selected" value="none"> Select a Utility </option>

</select>

</form>

</div>

<!--#######################################################################################################

TAB SET UP

######################################################################################################-->

<div class="container">

<div class="col-sm-5" style="padding:0px">

<div class= "map-layers-row">

<h3 class="chartTitles">Turn Map Layers On and Off</h3>

<div class="row" style="text-align: center; display: inline;">

<button class = "btn" value = "menuUtility" id = "menuUtility" style= "background-color: #6c019c; color: gold;">Utility</button>

<button class="btn" value= "menuCounty" id= "menuCounty" >County</button>

<button class="btn" value= "menuGMA" id= "menuGMA">Groundwater Mgmt Area</button>

<button class="btn" value="menuBasins" id="menuBasins">River Basin</button>

<button class="btn" value="menuWatershed" id="menuWatershed">Sub-Basin</button>

<button class="btn" value= "menuSource" id= "menuSource">Water Source</button>

<button class="btn" value= "menuRivers" id= "menuRivers">Rivers</button>

<button class="btn" value= "menuStreamGages" id= "menuStreamGages">Stream Gages</button>

<button class="btn" value= "menuReservoirs" id= "menuReservoirs">Reservoirs</button>

<button class="btn" value= "menuGroundwater" id= "menuGroundwater">Wells</button>

<button class="btn" value= "menuPrecipitation" id= "menuPrecipitation">Weather Stations</button>

<button class="btn" value= "menuDrought" id= "menuDrought">Drought</button>

<button class="btn" value= "menuPCP7DayObsv" id= "menuPCP7DayObsv">Precip 7-day Observ</button>

<button class="btn" value= "menuPCP7DayNorm" id= "menuPCP7DayNorm">Precip 7-day %Normal</button>

<button class="btn forecast" value= "menuQPF7day" id= "menuQPF7day">QPF 7-day Forecast</button>

<button class="btn forecast" value= "menuForecastPCP6" id= "menuForecastPCP6">Precip 6-10 Day Forecast</button>

<button class="btn forecast" value= "menuForecastTEMP6" id= "menuForecastTEMP6">Temp 6-10 Day Forecast</button>

</div><!--end top row-->

<!--ADD DIV TO TURN ON WHEN QPF 7-day forecast selected-->

<div id="moreForecastInfo" style="text-align: center; color: rgb(108,1,156); display: none;">

<p>For additional forecasts, please visit the <a href="https://www.wpc.ncep.noaa.gov/#page=ovw" target="\_blank">Weather Precipitation Center</a>.</p>

</div>

</div><!-- end map layers row-->

<!--#######################################################################################################

MAP DIV

######################################################################################################-->

<div class="map-layer-row" id = "map-column" style="z-index: 1px;" style="border: thin solid rgb(108,1,156);">

<div id="map" style="height: 600px; z-index: 10;"> <!--border: thin solid black;"-->

<div class="infoMap" id="map\_hover\_box"><p><strong>Hover over utilities</strong></p></div>

<div class="legend" id="stream-legend" style="display: none;"></div>

<div class="legend" id="drought-legend" style="display: none;"></div>

</div> <!--end map Div-->

</div><!--end map row div-->

</div> <!--co-sm-5 end Map section-->

<script>//LOAD DROP DOWN LIST

document.getElementById("setSystem").options.length = 1;

opts = document.getElementById('setSystem');

d3.csv("data/basic\_info.csv").then(function(dataCSV){

var systemList = dataCSV.filter(function(d) { return d.data === "yes"; });

var systemNames = systemList.map(function(d){ return d.utility\_name; });

systemList.sort(function (a,b) {

return (a.utility\_name < b.utilty\_name) ? -1 : 1;

});

for(i=0; i< systemNames.length; i++) {

var option = document.createElement('option');

option.text = systemList[i].utility\_name;

option.value = systemList[i].pwsid;

opts.appendChild(option);

}

opts.value = myUtility;

});//end d3

function setSystemThis(target){

var sel = document.getElementById('setSystem');

myUtilityID = sel.value;

myUtility = sel.options[sel.selectedIndex].text;

geocoder.clear();

map.setFilter('water\_supply', ['in', 'drawFile', myUtilityID]);

map.setFilter('water\_supply\_name', ['in', 'drawFile', myUtilityID]);

if (myUtilityID === "none"){

myUtility = "none";

myUtilityInfo(myUtility);

createBlankSummary();

}

if (myUtilityID !== "none"){

myUtilityInfo(myUtility);

createCurrentSummary(myUtility);

createDemandInfo(myUtilityID, checkedDemand);

}

return {myUtility, myUtilityID};

}

</script>

<!--#######################################################################################################

Tab Content

######################################################################################################-->

<div class = "col-sm-7">

<div class="row">

<ul id="tabs" class="nav nav-pills" data-tabs="tabs">

<li class = "active"><a href="#about" data-toggle="tab">My <br> Utility</a></li>

<li><a href="#demand" data-toggle="tab">Demand <br> Data</a></li>

<li><a href="#pop" data-toggle="tab">Population <br> Data</a></li>

<li><a href="#waterSupplyStatus" data-toggle="tab">Surface <br> Water</a></li>

<li><a href="#pcpDrought" data-toggle="tab">Rain &<br>Drought</a></li>

<li><a href="#groundwater" data-toggle="tab">Ground-<br>water</a></li>

<li><a href="#reclaimed" data-toggle="tab">Reclaimed<br>Water</a></li>

</ul>

</div>

<div class="row" id="main-one" style="padding: 0 10px;">

<div id="my-tab-content" class="tab-content clearfix;">

<!--#######################################################################################################

My Utility Tab

######################################################################################################-->

<div class="tab-pane active" id="about">

<div class="intro-bkgd">

<img class="help-icon" id="utilityHelp" src="img/info\_icon.png">

<div class="row" id="utility\_tab\_info" style="margin: 5px; display: none; z-index: 8;">

<img src="img/main-page.png" style="width: 100%; display: inline-block;">

</div>

<h4> <strong>To learn more about your utility please:</strong></h4>

<ul>

<li>(1) Select your utility from the dropdown menu above the map <em>or</em></li>

<li>(2) Click on your utility in the map <em>or</em></li>

<li>(3) Enter your address above to find your water service provider </li>

</ul>

<br>

<!-- place mapbox geocoder here instead of inside the map-->

<div class = "geocoder" id="geocoder"> </div> <!-- end geocoder div-->

</div>

<div id="utilityResult">

<h3 class = "chartTitles">Select a utility</h3>

</div>

<h4 class="chartTitles" id = "utilityTableHeader"></h4>

<div id = "utilityTable" class = "table table-wrapper-scroll-y my-custom-scrollbar"></div>

</div> <!-- end about pane-->

<!--#######################################################################################################

Water Supply Status Tab

######################################################################################################-->

<div class="tab-pane" id="waterSupplyStatus">

<!--Info Tab-->

<img class="help-icon" id="surfaceHelp" src="img/info\_icon.png">

<div class="row" id="surface\_tab\_info" style="margin: 5px; display: none; z-index: 8;">

<img src="img/surface-tab.png" style="width: 95%; display: inline-block;">

</div>

<!-- PLOTS -->

<h4 class = "chartTitles" id = "selectDataName">Select a stream gauge or reservoir to see plot</h4>

<div class="row" id="selectMetadata" style="text-align: center; color: darkgray"> </div>

<div class="row" id = "switchStatsDiv" style= "margin: 10px 20px; display: none;">

<input type="checkbox" id="switchStats" onclick="toggleStats(this.value)">&nbsp;&nbsp;Turn stats layer on

</div>

<div class="row chart-row" id = "streamPlot">

<img class = "chart-holder-icon" src="img/stream\_chart\_icon.png">

</div>

<!-- TABLES -->

<h4 id = "summaryTitle" class = "chartTitles">Recent Streamflow Conditions for Selected Utility Watersheds</h4>

<div class="row chart-row" id="summaryTableDiv"></div>

</div> <!-- end waterSupplyStatus pane-->

<!--#######################################################################################################

DEMAND Tab

######################################################################################################-->

<div class="tab-pane" id="demand">

<!--Info Tab-->

<img class="help-icon" id="demandHelp" src="img/info\_icon.png">

<div class="row" id="demand\_tab\_info" style="margin: 5px; display: none; z-index: 8;">

<img src="img/demand-tab.png" style="width: 95%; display: inline-block;">

</div>

<h4 class="chartTitles" id = "demandTitle">Select a utility to see water demand</h4>

<!-- PLOTS -->

<div class="metadata" id="selectDemandMetadata"> </div>

<div class="row">

<div class = "col-sm-2" style="padding-top: 20px;">Select to Highlight

<form style="color: black; font-size: 14px;">

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2002" type="checkbox"> 2002<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2003" type="checkbox"> 2003<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2004" type="checkbox"> 2004<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2005" type="checkbox"> 2005<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2006" type="checkbox"> 2006<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2007" type="checkbox"> 2007<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2008" type="checkbox"> 2008<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2009" type="checkbox"> 2009<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2010" type="checkbox"> 2010<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2011" type="checkbox"> 2011<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2012" type="checkbox"> 2012<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2013" type="checkbox"> 2013<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2014" type="checkbox"> 2014<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2015" type="checkbox"> 2015<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2016" type="checkbox"> 2016<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2017" type="checkbox"> 2017<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2018" type="checkbox"> 2018<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2019" type="checkbox"> 2019<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2020" type="checkbox"> 2020<br>

<input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2021" type="checkbox"> 2021<br><input onclick="createTraceDemand(this.value)" name="checkDemandYear" value="2022" type="checkbox" checked> 2022<br>

</form>

</div>

<div class = "row">

<div class = "col-sm-9" id = "demandPlot" style="padding: 0;">

<img class = "chart-holder-icon" src="img/demand\_chart\_icon.png">

</div>

<div class = "col-sm-9" id = "demandCumPlot" ></div>

</div>

<div class = "row" style="margin-left: 10px;">

<p> The City of Boerne has three main sources of water, of which its contract allocation is the following</p>

<ul style="list-style-type:square">

<li> Canyon Lake Reservoir: 1,176.6 million gallons per year</li>

<li> Groundwater wells from Trinity Aquifers: 325.9 - 602.8 million gallons per year</li>

<li> Boerne Lake: 271.4 million gallons per year</li>

</ul>

</div>

</div>

</div> <!-- end demand pane-->

<!--#######################################################################################################

POPULATION Tab

######################################################################################################-->

<div class="tab-pane" id="pop">

<!--Info Tab-->

<img class="help-icon" id="popHelp" src="img/info\_icon.png">

<div class="row" id="pop\_tab\_info" style="margin: 5px; display: none; z-index: 8;">

<img src="img/demand-tab.png" style="width: 95%; display: inline-block;">

</div>

<h4 class = "chartTitles" id = "longPopTitle"></h5>

<div class="row chart-row" id = "popPlot"></div>

<!-- PLOTS -->

<div class="metadata" id="selectpopMetadata"> </div>

<div class="row">

<div class = "col-sm-2" style="padding-top: 20px;">

</div>

<div class = "row">

<div class = "col-sm-9" id = "popPlot" style="padding: 0;">

</div>

</div>

<div class = "row" style="margin-left: 10px;">

<p><br> CLB represents the population within a city limit boundary. WSB represents the population serviced by the utility.<br></p>

</div>

</div>

</div> <!-- end population pane-->

<!--#######################################################################################################

GROUND WATER Tab

######################################################################################################-->

<div class="tab-pane" id="groundwater">

<!--Info Tab-->

<img class="help-icon" id="gwHelp" src="img/info\_icon.png">

<div class="row" id="gw\_tab\_info" style="margin: 5px; display: none; z-index: 8;">

<img src="img/gw-tab.png" style="width: 95%; display: inline-block;">

</div>

<!-- TABLES -->

<h4 class="chartTitles" id = "groundwaterTitle">Select a well from the map for more information</h4>

<div class="metadata" id="selectGWMetadata"> </div>

<!-- PLOTS -->

<div class="row" id = "switchGWStatsDiv" style= "margin-left: 20px; display: none;">

<br>

<input type="checkbox" id="switchGWStats" onclick="toggleGWStats(this.value)">&nbsp;&nbsp;Turn stats layer on

</div>

<h5 class = "chartTitles" id = "relGWTitle"></h5>

<div class="row chart-row" id = "gwPlot2">

<img class="chart-holder-icon" src="img/gw\_chart\_icon.png">

</div>

<h5 class="chartTitles" id="monthlyGWTitle"></h4>

<p class = "metadata" id = "gwMetadata"></p>

<div class="row">

<div class = "col-sm-2">Select to Highlight

<form>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2000" type="checkbox"> 2000<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2001" type="checkbox"> 2001<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2002" type="checkbox"> 2002<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2003" type="checkbox"> 2003<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2004" type="checkbox"> 2004<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2005" type="checkbox"> 2005<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2006" type="checkbox"> 2005<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2007" type="checkbox"> 2007<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2008" type="checkbox"> 2008<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2009" type="checkbox"> 2009<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2010" type="checkbox"> 2010<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2011" type="checkbox"> 2011<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2012" type="checkbox"> 2012<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2013" type="checkbox"> 2013<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2014" type="checkbox"> 2014<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2015" type="checkbox"> 2015<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2016" type="checkbox"> 2016<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2017" type="checkbox"> 2017<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2018" type="checkbox"> 2018<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2019" type="checkbox"> 2019<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2020" type="checkbox"> 2020<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2021" type="checkbox"> 2021<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2022" type="checkbox" checked> 2022<br>

</form>

</div>

<div class = "row">

<div class = "col-sm-9" id = "gwMonthPlot" ></div>

</div>

</div>

<h5 class = "chartTitles" id = "longGWTitle"></h5>

<div class="row chart-row" id = "gwPlot3"></div>

</div> <!-- endGroundwater pane-->

<!--#######################################################################################################

PCP - DROUGHT Tab

######################################################################################################-->

<div class="tab-pane" id="pcpDrought">

<!--Info Tab-->

<img class="help-icon" id="pcpHelp" src="img/info\_icon.png">

<div class="row" id="pcp\_tab\_info" style="margin: 5px; display: none; z-index: 8;">

<img src="img/pcp-tab.png" style="width: 95%; display: inline-block;">

</div>

<!-- TABLES -->

<h4 class = "chartTitles" style="width: 90%">Select a watershed to see how drought changes over time</h4>

<form name="selectSize" style="margin: 20px 0 5px 20px;">

<span><strong>Select Watershed: </strong></span> &nbsp;

<select style="width: 280px;" name="setHUC" id="setHUC" onchange="setHUCThis(this);">

<option selected = "selected" value="none"> Select from dropdown </option>

<optgroup label = "GUADALUPE RIVER BASIN">

<option value="12100201"> Upper Guadalupe </option>

<option value="12100202"> Middle Guadalupe </option>

</optgroup>

<optgroup label = "SAN ANTONIO RIVER BASIN">

<option value="12100304"> Cibolo </option>

</optgroup>

</select>

</form>

<br>

<h4 class = "chartTitles" id = "hucDroughtTitle"><br></h4>

<div class="row curDBlocksStyle" id = "curDBlocks" style="display: none;">

<div class="col-sm-2 dstat" id = "dnonediv"></div>

<div class="col-sm-2 dstat" id = "d0div" style="background-color: #FFFF00;"></div>

<div class = "col-sm-2 dstat" id = "d1div" style="background-color: #FCD37F;"></div>

<div class = "col-sm-2 dstat" id = "d2div" style="background-color: #FFAA00;"></div>

<div class = "col-sm-2 dstat" id = "d3div" style="background-color: #E60000; color: white;"></div>

<div class = "col-sm-2 dstat" id = "d4div" style="background-color: #730000; color: white;"></div>

</div>

<!-- PLOTS -->

<div class="row chart-row" id = "droughtPlot">

<img class = "chart-holder-icon" src="img/drought\_chart\_icon.png" style= "height: 200px; width: 200px;">

</div>

<div class = "row" style="margin-left: 10px;">

<p><br> To learn more about current drought conditions, visit the <a href="https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?TX" target="\_blank">US Drought Monitor of Texas</a>, or <a href="https://www.ci.boerne.tx.us/1947/Water-Conservation" target="\_blank"> Boerne Water Conservation</a>.<br></p>

</div>

<!-- ###################################### PCP INFORMATION -->

<h4 class="chartTitles" id="pcpTitle">Select a precipitation gauge from the map for more information</h4>

<p class = "metadata" id = "pcpMetadata"></p>

<div class="row">

<div class = "col-sm-2">Select to Highlight

<form>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="1990" type="checkbox"> 1990<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="1991" type="checkbox"> 1991<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="1992" type="checkbox"> 1992<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="1993" type="checkbox"> 1993<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="1994" type="checkbox"> 1994<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="1995" type="checkbox"> 1995<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="1996" type="checkbox"> 1996<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="1997" type="checkbox"> 1997<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="1998" type="checkbox"> 1998<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="1999" type="checkbox"> 1999<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2000" type="checkbox"> 2000<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2001" type="checkbox"> 2001<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2002" type="checkbox"> 2002<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2003" type="checkbox"> 2003<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2004" type="checkbox"> 2004<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2005" type="checkbox"> 2005<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2006" type="checkbox"> 2005<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2007" type="checkbox"> 2007<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2008" type="checkbox"> 2008<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2009" type="checkbox"> 2009<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2010" type="checkbox"> 2010<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2011" type="checkbox"> 2011<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2012" type="checkbox"> 2012<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2013" type="checkbox"> 2013<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2014" type="checkbox"> 2014<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2015" type="checkbox"> 2015<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2016" type="checkbox"> 2016<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2017" type="checkbox"> 2017<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2018" type="checkbox"> 2018<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2019" type="checkbox"> 2019<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2020" type="checkbox"> 2020<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2021" type="checkbox"> 2021<br>

<input onclick="createTracePCP(this.value)" name="checkPCPYear" value="2022" type="checkbox" checked> 2022<br>

</form>

</div>

<div class = "row">

<div class = "col-sm-9" id = "pcpMonthPlot" style="padding: 0;">

<img class = "chart-holder-icon" src="img/pcp\_chart\_icon.png">

</div>

<div class = "col-sm-9" id = "pcpCumPlot" ></div>

</div>

</div>

</div> <!-- end PCP And DROUGHT pane-->

<!--#######################################################################################################

RECLAIMED WATER Tab

######################################################################################################-->

<div class="tab-pane" id="reclaimed">

<!--Info Tab-->

<img class="help-icon" id="reclaimedHelp" src="img/info\_icon.png">

<div class="row" id="reclaimed\_tab\_info" style="margin: 5px; display: none; z-index: 8;">

<img src="img/demand-tab.png" style="width: 95%; display: inline-block;">

</div>

<h4 class="chartTitles" id = "reclaimedTitle">Select a utility to see reclaimed water produced</h4>

<!-- PLOTS -->

<div class="metadata" id="selectreclaimedMetadata"> </div>

<div class="row">

<div class = "col-sm-2" style="padding-top: 20px;">Select to Highlight

<form style="color: black; font-size: 14px;">

<input onclick="createTraceReclaimed(this.value)" name="checkReclaimedYear" value="2016" type="checkbox"> 2016<br>

<input onclick="createTraceReclaimed(this.value)" name="checkReclaimedYear" value="2017" type="checkbox"> 2017<br>

<input onclick="createTraceReclaimed(this.value)" name="checkReclaimedYear" value="2018" type="checkbox"> 2018<br>

<input onclick="createTraceReclaimed(this.value)" name="checkReclaimedYear" value="2019" type="checkbox"> 2019<br>

<input onclick="createTraceReclaimed(this.value)" name="checkReclaimedYear" value="2020" type="checkbox"> 2020<br>

<input onclick="createTraceReclaimed(this.value)" name="checkReclaimedYear" value="2021" type="checkbox"> 2021<br>

<input onclick="createTraceReclaimed(this.value)" name="checkReclaimedYear" value="2022" type="checkbox" checked> 2022<br>

</form>

</div>

<div class = "row">

<div class = "col-sm-9" id = "reclaimedPlot" style="padding: 0;">

<img class = "chart-holder-icon" src="img/demand\_chart\_icon.png">

</div>

</div>

</div>

</div>

</div> <!-- end demand pane-->

<!--#######################################################################################################

endTabs

######################################################################################################-->

</div> <!-- end my-tab-content-->

</div> <!--end row -->

</div> <!--end col-7-sm -->

</div> <!-- end main container-->

<script>

jQuery(document).ready(function(){

jQuery('#utilityHelp').on('click', function(event) { jQuery('#utility\_tab\_info').toggle('show'); });

jQuery('#surfaceHelp').on('click', function(event) { jQuery('#surface\_tab\_info').toggle('show'); });

jQuery('#demandHelp').on('click', function(event) { jQuery('#demand\_tab\_info').toggle('show'); });

jQuery('#popHelp').on('click', function(event) { jQuery('#pop\_tab\_info').toggle('show'); });

jQuery('#pcpHelp').on('click', function(event) { jQuery('#pcp\_tab\_info').toggle('show'); });

jQuery('#gwHelp').on('click', function(event) { jQuery('#gw\_tab\_info').toggle('show'); });

jQuery('#reclaimedHelp').on('click', function(event) { jQuery('#reclaimed\_tab\_info').toggle('show'); });

});

</script>

<!--#######################################################################################################

ADD FOOTER

######################################################################################################-->

<footer>

<h4 style="color: rgb(108,1,156);">Credits</h4>

<p> This tool is a product of the <a href="https://internetofwater.org/" target = "\_blank">Internet of Water</a> and was developed in partnership with the <a href = "https://www.ci.boerne.tx.us/" target = "\_blank"> City of Boerne</a>, Benjamin Eldredge and Margaret Lamar at the <a href="https://cibolo.org/" target="\_blank">Cibolo Center for Conservation</a>, and Michael H. Young at the <a href="https://www.beg.utexas.edu/" target="\_blank">Bureau of Economic Geology at the University of Texas at Austin</a>.

<br>

This project was partially supported by the <a href="https://cgmf.org/p/home.html" target="\_blank">Cynthia and George Mitchell Foundation</a>.

<br>

The code used to access and create the files for the dashboard can be found here: <a href="https://github.com/BoerneIoW/Boerne-Dashboard" target = "\_blank">Boerne Water Dashboard GitHub Repository</a>

</p>

<div style="display: flex">

<section class="left-footer">

<p style="padding-right: 8px;">

<strong>Data Architect updated by<br>

Data Architect developed by<br>

Dashboard developed by<br>

Duke University</strong>

<br></p>

</section>

<section class="right-footer">

<p style="padding-left: 8px;">

Vianey Rueda <br>

Kyle Onda <br>

Lauren Patterson <br>

Sophia Bryson <br>

</p>

</section>

</div>

</footer> <!--internal footer div-->

<!--#######################################################################################################

DECLARE GLOBAL VARIABLES

######################################################################################################-->

<script>

// DECLARE GLOBAL VARIABLES

var myUtility = "none";

var myUtilityID = "none";

var myHUC = "none";

var currentYear = 2022;

var clickedLayer;

var streamLegend = document.getElementById('stream-legend');

var recentDate;

var streamID = "none"; var gwID = "none"; var pcpID = "none";

var checked = ['2021'];

var checkedDemand= [currentYear-1];

var checkedReclaimed= [currentYear-1];

var checkedPop= [currentYear-1];

var fileName;

var streamPlotType = "off";

var gwPlotType = "off";

//configures plotly displays

var config = {

displayModeBar: true,

modeBarButtonsToRemove: ['lasso2d', 'select2d', 'resetscale2d', 'toggleSpikelines', 'hoverCompareCartesian', 'hoverClosestCartesian']

};

// Create a popup, but don't add it to the map yet.

var popup = new mapboxgl.Popup({

closeButton: false,

closeOnClick: false

});

mapboxgl.accessToken = 'pk.eyJ1IjoidnJ1ZWRhOTciLCJhIjoiY2t3bWZiOXYxMmJ2YTJ2cHcwcTRlYThvbyJ9.wN7ZXW4T0fI0TFzzSVAOfg';

var map = new mapboxgl.Map({

container: 'map', //specify container ID

style: 'mapbox://styles/mapbox/streets-v11', //specify map style

center: [-98.49653, 29.80583], //specify the start position; long, lat

zoom: 9

});

map.addControl(new mapboxgl.NavigationControl(), 'top-left');

var geocoder = new MapboxGeocoder({

accessToken: mapboxgl.accessToken,

//limit results to Boerne

bbox: [-98.878512,29.690694,-98.58712,29.89914],

mapboxgl: mapboxgl,

placeholder: "Enter address to find your utility",

zoom: 11

});

document.getElementById('geocoder').appendChild(geocoder.onAdd(map));

//draw initial map... set delay to ensure utilities loaded first

var utilities;

function getSystemData() {

return $.getJSON("data/boerne\_utility.geojson", function(siteData){

utilities = siteData;

setTimeout(drawMap(), 4000);

});

}

getSystemData();

//Get the most recent stream gauge data to show map updates

d3.csv("data/update\_date.csv").then(function(today){

// $.getJSON("data/streamflow/boerne\_stream\_gauge\_sites.geojson", function(lastData){

// var lastDate = lastData.features[0].properties.date + "-" + lastData.features[0].properties.endYr;

//console.log(today);

var lastDate = today[0].today\_date;

document.getElementById("dataUpdateNotice").innerHTML = "Data Last Updated: " + lastDate;

});

/\*-------------------------------------------------------------------------------------------------------

//////////// CREATE GEOCODER FUNCTIONS ///////////

--------------------------------------------------------------------------------------------------------\*/

geocoder.on('result', function(ev) {

var addressReturn = ev.result.center;

//loop through utilities to see if contained

myUtility = "none"; myUtilityID = "none";

var myUtilityData;

utilities.features.forEach(function(d){

if (d3.geoContains(d, addressReturn)) {

myUtility = d.properties.utility\_name;

myUtilityID = d.properties.pwsid;

myUtilityData = d.properties.data;

}

}); // end forEach

console.log(myUtility);

//set dropdown list to whatever is selected

document.getElementById('setSystem').value = myUtilityID;

if (myUtilityData === "yes"){

map.setFilter('water\_supply', ['in', 'drawFile', myUtilityID]);

map.setFilter('water\_supply\_name', ['in', 'drawFile', myUtilityID]);

createCurrentSummary(myUtility);

}

if (myUtilityData === "no" || myUtility === "none"){

map.setFilter('water\_supply', ['in', 'drawFile', "none"]);

map.setFilter('water\_supply\_name', ['in', 'drawFile', "none"]);

}

myUtilityInfo(myUtility);

}); //end geocoder on

$('a[data-toggle="tab"]').on('shown.bs.tab', function (e) {

target=$(e.target).attr("href");

var visibility;

if(target=="#waterSupplyStatus") {

visibility = map.getLayoutProperty('streamgauge-layer', 'visibility');

if (visibility === "none") {

document.getElementById('menuStreamGages').click();

}

visibility = map.getLayoutProperty('water\_supply', 'visibility');

if (visibility === "none") {

document.getElementById('menuSource').click();

}

visibility = map.getLayoutProperty('reservoirs', 'visibility');

if (visibility === "none") {

document.getElementById('menuReservoirs').click();

}

//Turn off other layers if they are on

if (map.getLayoutProperty('groundwater', 'visibility') !== "none"){

document.getElementById('menuGroundwater').click();

}

if (map.getLayoutProperty('precipitation', 'visibility') !== "none"){

document.getElementById('menuPrecipitation').click();

}

if (map.getLayoutProperty('drought', 'visibility') !== "none"){

document.getElementById('menuDrought').click();

}

}//end stream gauge tab

if(target=="#demand"){

createDemandInfo(myUtilityID, checkedDemand);

//turn off other layers

if (map.getLayoutProperty('streamgauge-layer', 'visibility') !== "none"){

document.getElementById('menuStreamGages').click();

}

if (map.getLayoutProperty('reservoirs', 'visibility') !== "none"){

document.getElementById('menuReservoirs').click();

}

if (map.getLayoutProperty('groundwater', 'visibility') !== "none"){

document.getElementById('menuGroundwater').click();

}

if (map.getLayoutProperty('precipitation', 'visibility') !== "none"){

document.getElementById('menuPrecipitation').click();

}

// if (map.getLayoutProperty('drought', 'visibility') !== "none"){

// document.getElementById('menuDrought').click();

// }

}

if(target=="#reclaimed"){

createReclaimedInfo(myUtilityID, checkedReclaimed);

//turn off other layers

//if (map.getLayoutProperty('streamgauge-layer', 'visibility') !== "none"){

//document.getElementById('menuStreamGages').click();

//}

//if (map.getLayoutProperty('reservoirs', 'visibility') !== "none"){

//document.getElementById('menuReservoirs').click();

//}

//if (map.getLayoutProperty('groundwater', 'visibility') !== "none"){

//document.getElementById('menuGroundwater').click();

//}

//if (map.getLayoutProperty('precipitation', 'visibility') !== "none"){

//document.getElementById('menuPrecipitation').click();

//}

}

if(target=="#pop"){

createPopInfo(myUtilityID, checkedPop);

//turn off other layers

//if (map.getLayoutProperty('streamgauge-layer', 'visibility') !== "none"){

//document.getElementById('menuStreamGages').click();

//}

//if (map.getLayoutProperty('reservoirs', 'visibility') !== "none"){

//document.getElementById('menuReservoirs').click();

//}

//if (map.getLayoutProperty('groundwater', 'visibility') !== "none"){

//document.getElementById('menuGroundwater').click();

//}

//if (map.getLayoutProperty('precipitation', 'visibility') !== "none"){

//document.getElementById('menuPrecipitation').click();

//}

}

if(target=="#groundwater"){

visibility = map.getLayoutProperty('groundwater', 'visibility');

if (visibility === "none") {

document.getElementById('menuGroundwater').click();

}

if (gwID !== "none"){

createGWTab(gwID, recentDate);

}

//turn off other layers

if (map.getLayoutProperty('streamgauge-layer', 'visibility') !== "none"){

document.getElementById('menuStreamGages').click();

}

if (map.getLayoutProperty('reservoirs', 'visibility') !== "none"){

document.getElementById('menuReservoirs').click();

}

if (map.getLayoutProperty('water\_supply', 'visibility') !== "none"){

document.getElementById('menuSource').click();

}

if (map.getLayoutProperty('precipitation', 'visibility') !== "none"){

document.getElementById('menuPrecipitation').click();

}

if (map.getLayoutProperty('drought', 'visibility') !== "none"){

document.getElementById('menuDrought').click();

}

}

if(target=="#pcpDrought"){

visibility = map.getLayoutProperty('precipitation', 'visibility');

if (visibility === "none") {

document.getElementById('menuPrecipitation').click();

}

visibility = map.getLayoutProperty('drought', 'visibility');

if (visibility === "none") {

document.getElementById('menuDrought').click();

}

//turn layers off

//turn off other layers

if (map.getLayoutProperty('streamgauge-layer', 'visibility') !== "none"){

document.getElementById('menuStreamGages').click();

}

if (map.getLayoutProperty('reservoirs', 'visibility') !== "none"){

document.getElementById('menuReservoirs').click();

}

if (map.getLayoutProperty('groundwater', 'visibility') !== "none"){

document.getElementById('menuGroundwater').click();

}

if (map.getLayoutProperty('water\_supply', 'visibility') !== "none"){

document.getElementById('menuSource').click();

}

}

});

</script>

<script type="text/javascript" src="scripts/drawMap.js"></script> <!--needs to be asyn-->

<script type="text/javascript" src="scripts/utility\_tab.js"></script>

<script type="text/javascript" src="scripts/map\_hover\_click.js"></script> <!--needs to be asyn-->

<script type="text/javascript" src="scripts/stream\_stats.js" defer></script>

<script type="text/javascript" src="scripts/demandTab.js" defer></script>

<script type="text/javascript" src="scripts/popTab.js" defer></script>

<script type="text/javascript" src="scripts/groundwaterTab.js" defer></script>

<script type="text/javascript" src="scripts/droughtPlot.js" defer></script>

<script type="text/javascript" src="scripts/precipPlots.js" defer></script>

<script type="text/javascript" src="scripts/reclaimedTab.js" defer></script>

</body>

</html>