UTAH DEPARTMENT *of*
ENVIRONMENTAL QUALITY
DRINKING
WATER

# Implementing New Drinking Water Sizing Requirements

October 23, 2018

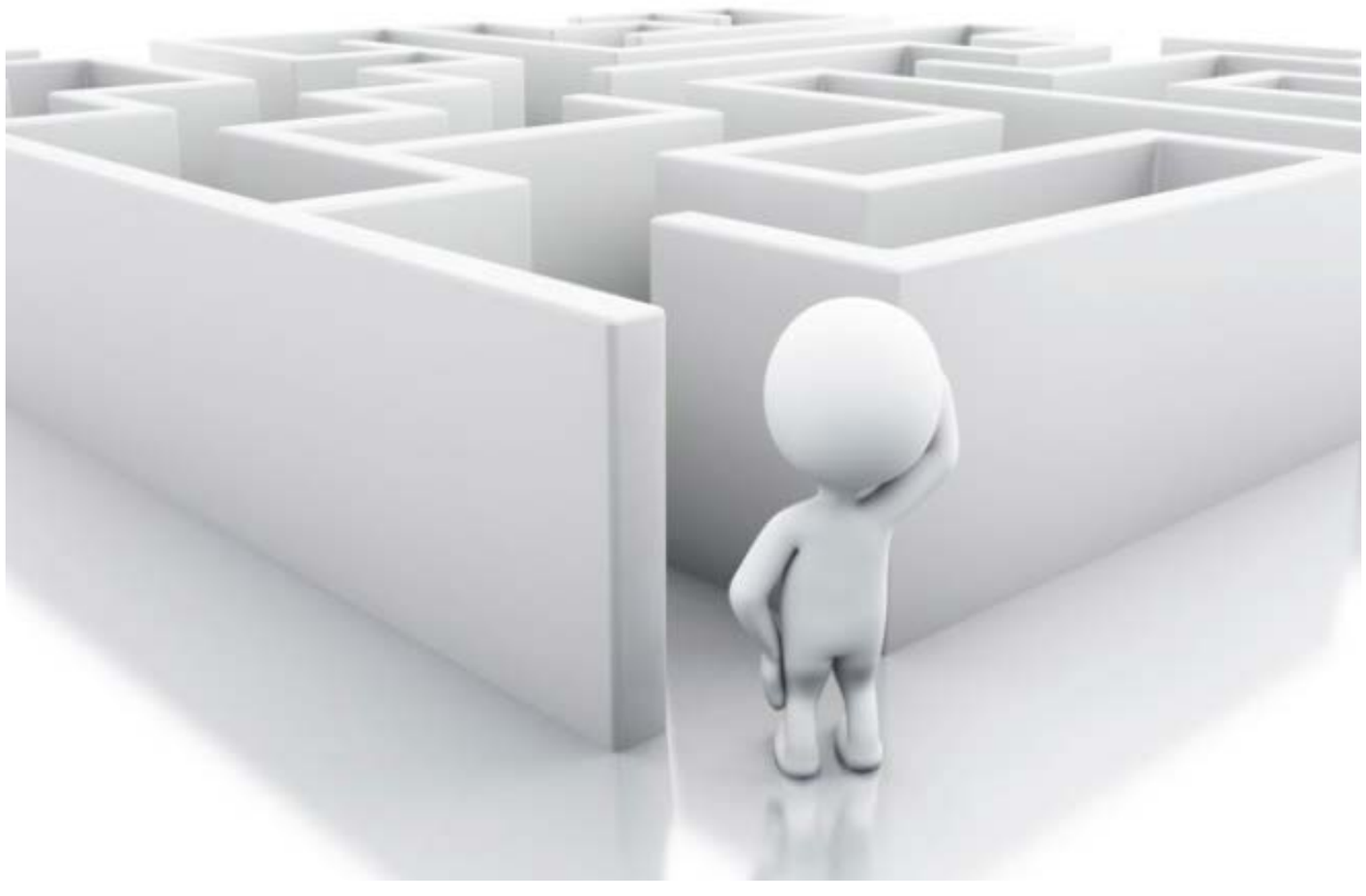
# Today's Topics

1. Background and Overview – Utah's Minimum Sizing Requirements for Public Drinking Water Systems

2. Annual Water Use Data Reporting & Processing
    - Community Water Systems (CWSs)
    - Division of Water Rights (DWRi)
    - Division of Water Resources (DWRe)
    - Division of Drinking Water (DDW)

3. Methodology of Setting Minimum Sizing Requirements
    - Using Reported Annual Water Use Data
    - Using Engineering Study or Historical Data

# Implementing New Minimum Sizing Requirements for Public Drinking Water Systems in Utah



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# Utah Public Water System (PWS)
## Design & Construction Minimum Sizing Standards
(Utah Administrative Code R309-510)

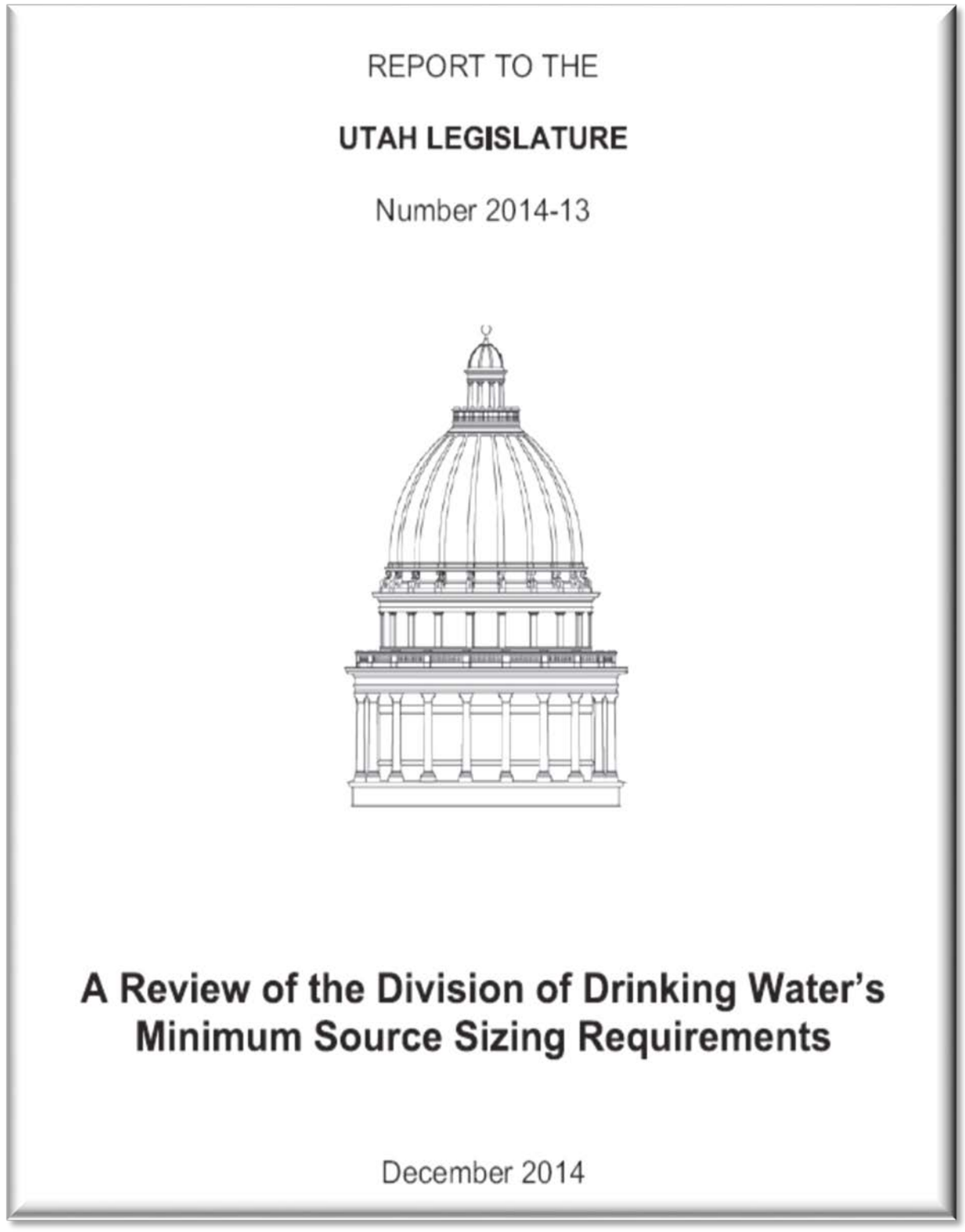
<u>Current</u> Minimum Sizing Standards:

- Source Capacity
- Storage Capacity
- Distribution System Sizing

# First Audit Report of Minimum Sizing Standards

## Legislative Audit Report (2014 December)

- Re-evaluate indoor and outdoor water use standards **based on actual water use data**


REPORT TO THE

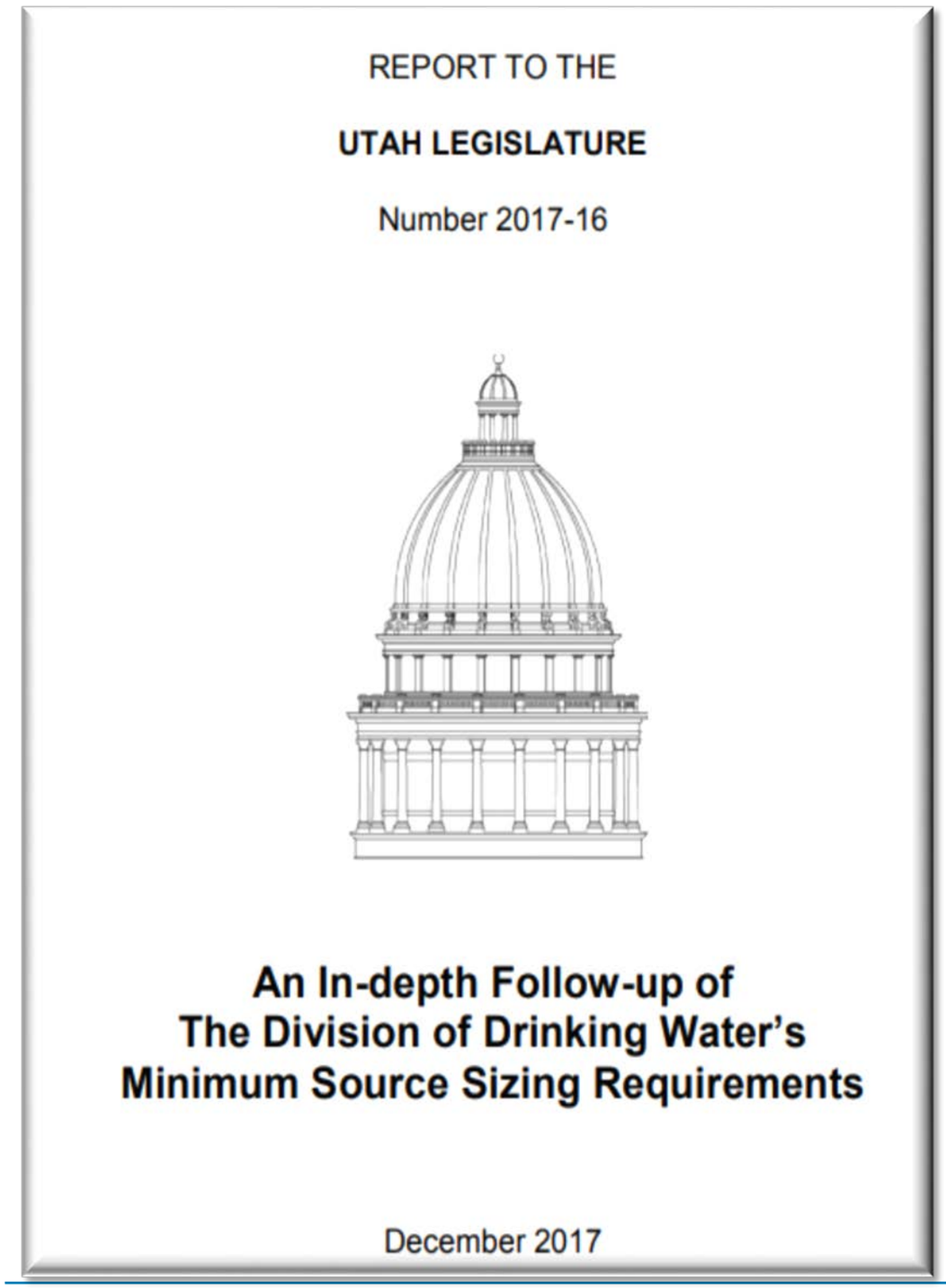
UTAH LEGISLATURE

Number 2014-13

A Review of the Division of Drinking Water's Minimum Source Sizing Requirements

December 2014

# Second Audit Report of Minimum Sizing Standards




## Legislative Audit Follow-up (2017 December)

- Difficult To develop new statewide standards
- DDW is exploring an alternative approach to regulating minimum sizing
- **<u>New legislation</u>** and rules may be required to enact a new regulatory framework

# *Regulations (Rules)*

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- A law enacted **by a legislative body** of a government

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- A law enacted **by a legislative body** of a government
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- Example: Utah Administrative Code R309-510, Minimum Sizing Requirements

## *Statutes (Utah Code)*

- A law enacted **by a legislative body** of a government
- DDW director does not have the authority to grant an exception to statute
- Example: Title 19, Chapter 4, Sections 104 and 114 (Utah Code 19-4-104 & 114)

# Legislative Revisions to Utah Code 19-4 in 2018

**19-4-104 Water Use Data Reporting**

- CWSs serving ≥ 500 people must report water use data to DWRi annually
- Peak Day Source Demand, Average Annual Demand, Total Number of Retail ERCs, and Quantity of Non-Revenue Water

**See "Utah Code 19-4-104 & 114" handouts**

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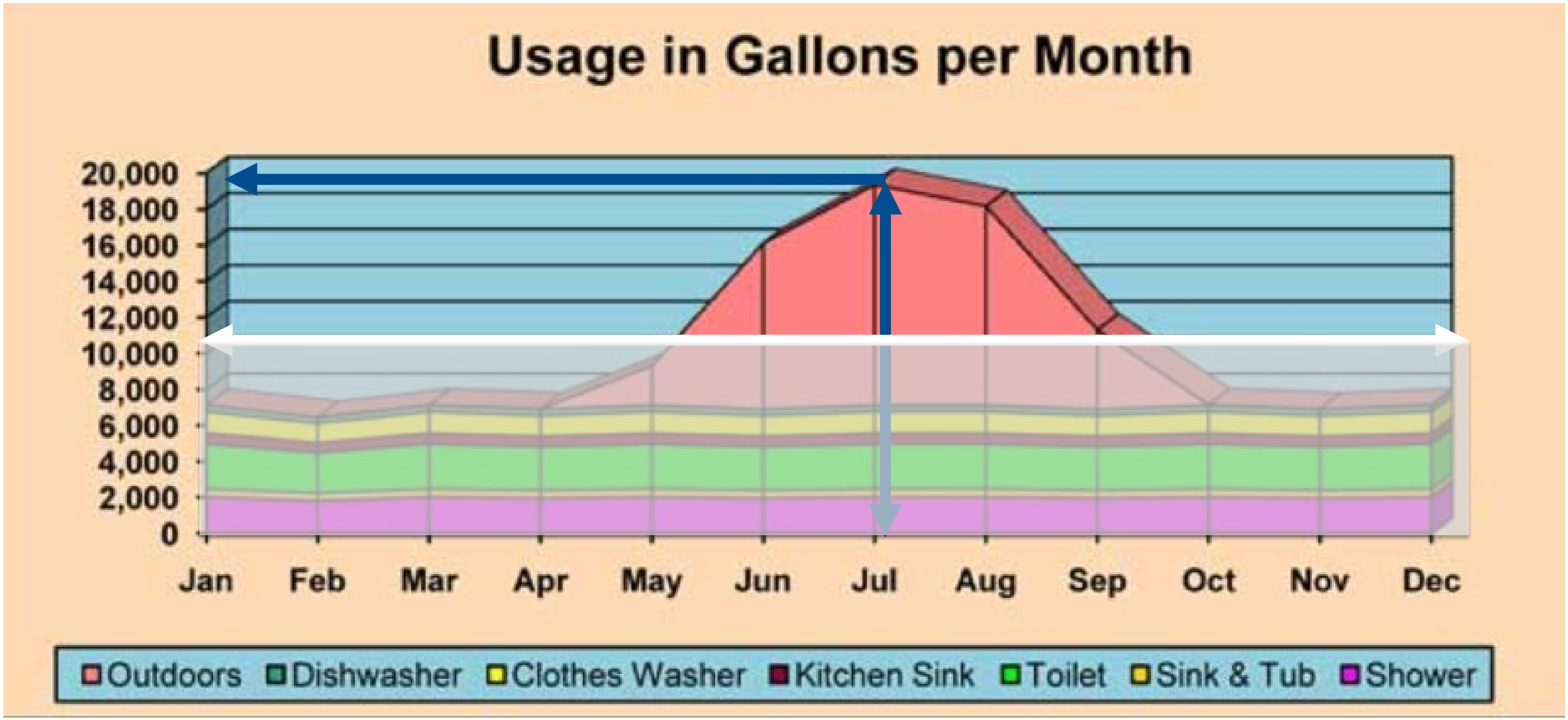
# *Example – Peak Day Demand vs. Average Annual Demand*

**Peak Day Source Demand**
**~19,000**

**Average Annual Demand**
**~10,400 × 365**



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**19-4-114 Minimum Sizing**

- DDW sets **system-specific** minimum sizing requirements
- System-specific sizing based on reported water use data, engineering study or historical data

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- DDW sets **system-specific** minimum sizing requirements
- System-specific sizing based on **reported water use data**, **engineering study** or historical data

# Legislative Revisions of Utah Code 19-4

Effective July 21, 2018

Water systems affected & implementation phases

## Community Water Systems (CWS)

1st Phase: CWSs serving > 3,300 people

2nd Phase: CWSs serving 500 – 3,300

3rd Phase: CWSs serving < 500 people

# Legislative Revisions to 19-4-114
# System-Specific Minimum Sizing Requirements

How and when CWSs submit & report the data for sizing?

| Water System Type | PWS Submits At Least Most Recent 3 Years Data to DDW | DDW Sets System-Specific Min. Sizing |
|---|---|---|
| CWSs Serving > 3,300 People | **No later than 3/1/2019** | See "Summary Sheet" handout |
| CWSs Serving 500 – 3,300 | **No later than 3/1/2023** | No later than 10/1/2023 |
| CWSs Serving < 500 People | "*The director shall establish a schedule to transition from statewide sizing standards to system-specific standards*" | |
| Non-CWSs | "*The director shall establish minimum sizing standards for PWSs that are not community PWS*" | |

# Utah Code 19-4-104 (Annual Data Reporting)

## Consequence of Not Reporting Water Use Data Annually

**Community water systems serving 500 people or more**:

- Collect accurate water use data, and
- Report the data to Division of Water Rights (DWRi) Annually

Require a **certified operator**, or a **professional engineer** performing the duties of certified water operator, to **verify by certification or license number the accuracy of water use data** reported by a CWS

*[Rule R309-400]* **50 points for PWS** if failing to:

- submit water use data required by a state agency, or
- verify the accuracy of the data by including a certification by a certified operator or a professional engineer

# Utah Code 19-4-114(1) (Minimum Sizing)

## Consequences of Not Submitting Information Needed for Sizing

**CWSs serving over 3,300 people**, by **March 1, 2019**:

- Submit at least most recent 3 years of water use data, OR
- Submit an engineering study (or historical data)

→ Otherwise DDW will **assess administrative points**

DDW must establish system-specific minimum sizing requirements if a **CWS serving over 3,300 people** submits **plans for "substantial addition or alteration"** after March 1, 2019

→ Review of **the plans for "substantial addition or alteration" projects** will be completed **after** DDW has received the "information necessary to establish system-specific sizing requirements"

# Legislative Revisions to 19-4-114

## Fire Suppression Storage


The director shall include, as a part of system-specific standards, **necessary fire storage capacity** in accordance with the state fire code adopted under Section 15A-1-403 **as determined by local fire code officials**

# Legislative Revision 19-4-114 (Minimum Sizing)

**Wholesale Water Suppliers** are exempt from 19-4-**114**

A wholesale water supplier is exempt from this section if the wholesale water supplier serves:

a) a total population of more than 10,000; and

b) A wholesale population that is 75% or more of the total population served

Wholesale water suppliers still need to comply with the **water use data reporting** requirement per 19-4-**104**(1)(c)(iv)

# Public Water System (PWS) Minimum Sizing

**Current**

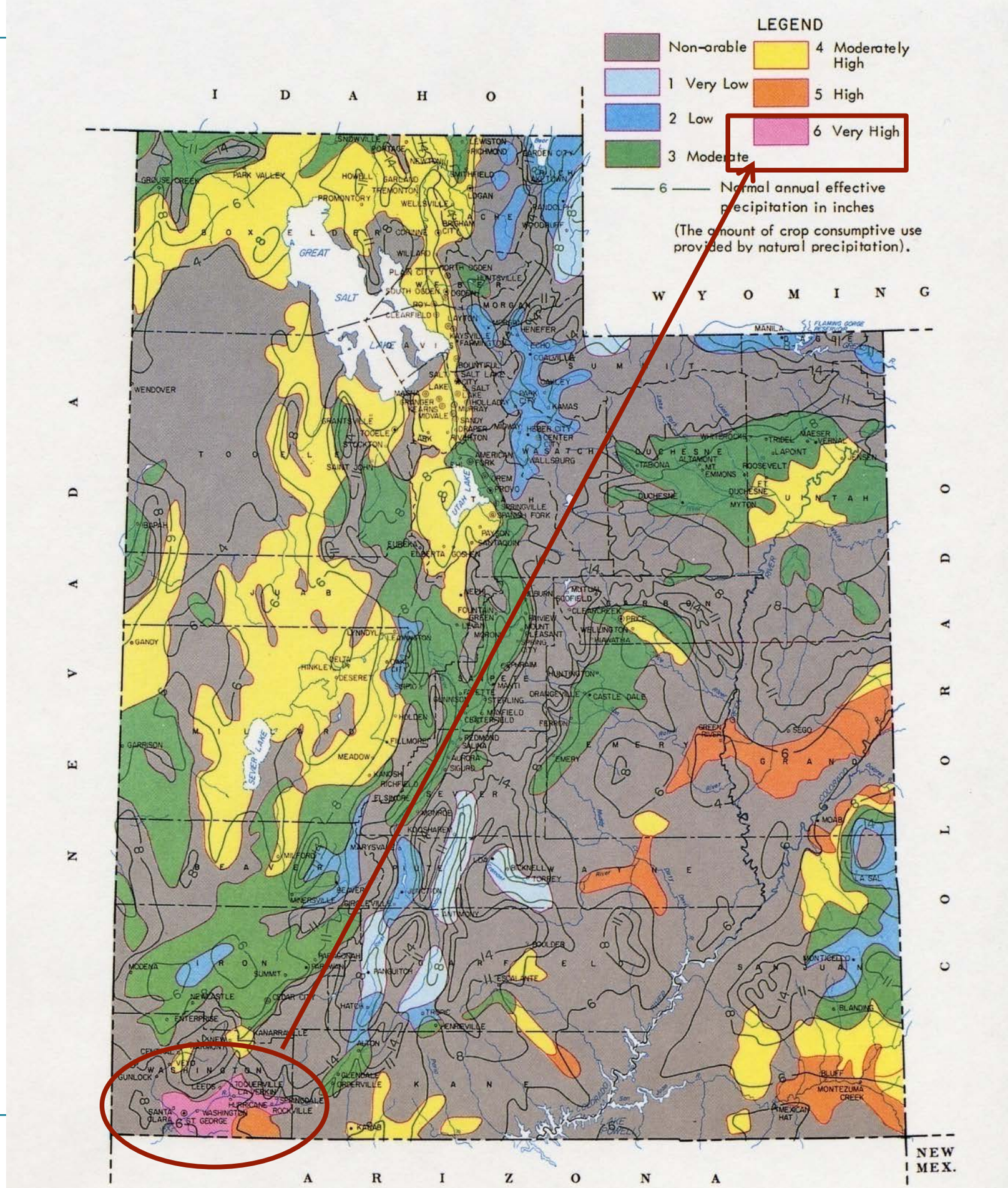
*Indoor Use Standard*

+

*Outdoor Use Standard*

# Current Outdoor Water Use Sizing

- 6 Zones in Utah
- Difficult to account for land use or operating differences between water systems



| *Current Statewide Standards* | Source Sizing (per ERC) | | Storage Sizing (per ERC) |
|---|---|---|---|
| **Indoor** | **Peak Day Demand** | **800 gallons/day** | — |
| | **Avg. Yearly Demand** | **400 gallons/day** (146,000 gallons/year) | **400 gallons** |
| **Outdoor** (Zone 4 Example) | Peak Day | 3.96 gpm per irrigated acre | — |
| | Average Yearly | 1.87 acre-ft/yr /irr. acre | 2,848 gallons |
| **Fire Suppression** | — | | **Determined by fire code official** |
| **Emergency** | — | | **Determined by water systems** |

**Will be replaced**

# Public Water System (PWS) Minimum Sizing

**Current**

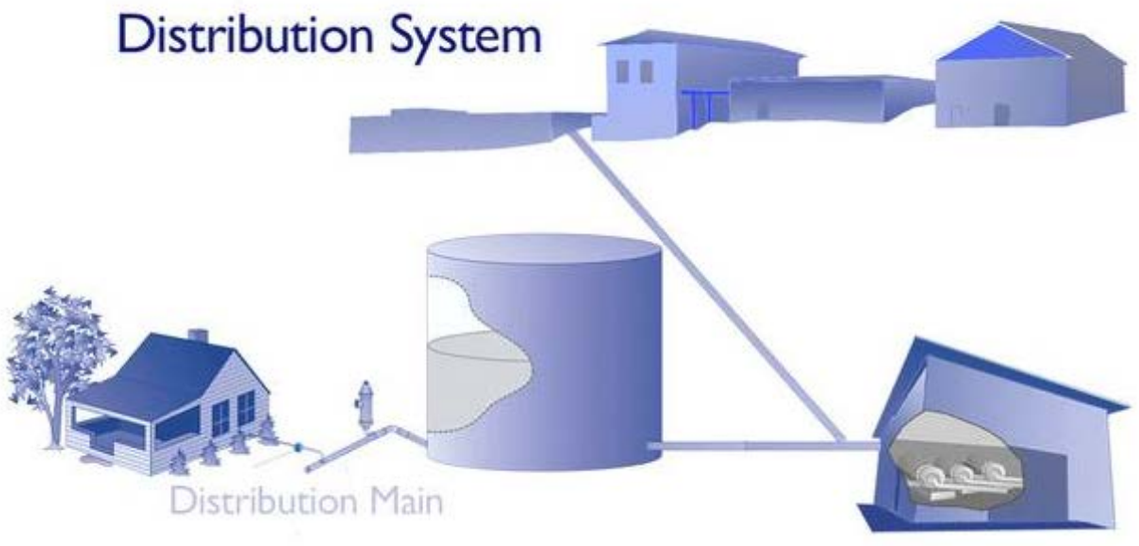
*Indoor Use Standard*

+

*Outdoor Use Standard*

**Future**

*Combined*



# PWS Minimum Sizing – Source

✓ *Peak Day Demand*

✓ *Average Yearly Demand*

**Current**

**Future**

✓ *Peak Day Demand*

✓ *Average Annual Demand*

# PWS Minimum Sizing – Storage

**Current**

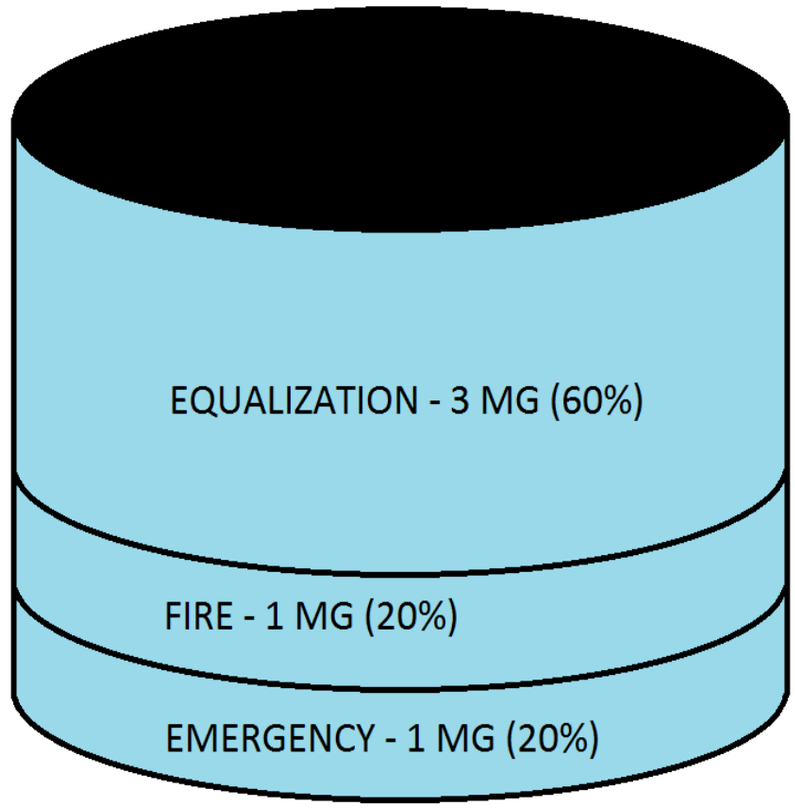
**Storage =**

**Equalization Storage +**

**Fire Suppression +**

**Emergency** (optional)

Example




**Future**

Same

# PWS Minimum Sizing – Storage

**Current**

**Equalization Storage =**
**One Average Day Demand**

Indoor Use + Outdoor Use

**Future**

**Equalization Storage =**
**One Average Day Demand**

Combined

| *Current Statewide Standards* | Source Sizing (per ERC) | | Storage Sizing (per ERC) |
|---|---|---|---|
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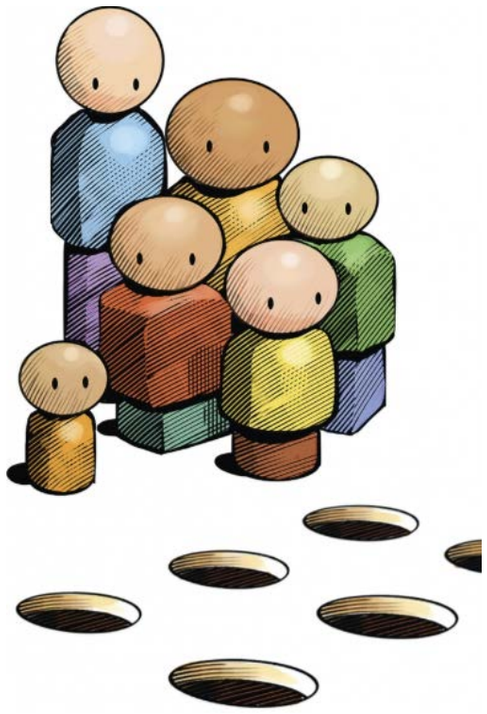
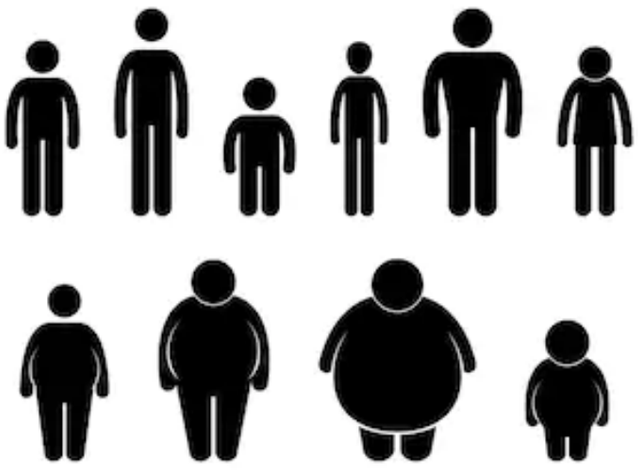
# PWS Minimum Sizing

**Current**



*"**Statewide**" Minimum Sizing Standards*

**Future**



*"**System-Specific**" Minimum Sizing Requirements*

# System-Specific Minimum Sizing Requirements — An Example of Concerns

abc NEWS VIDEO LIVE SHOWS

## Thomas Fire victims file class action lawsuit against California utility

By WIL CRUZ · Jan 5, 2018, 1:27 PM ET

Share Tweet

# System-Specific Minimum Sizing Requirements
# An Example of Concerns

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    - Using Reported Annual Water Use Data
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# Annual Water Use Data & Minimum Sizing

Community Water Systems (CWSs)

Division of Drinking Water (DDW)

Division of Water Rights (DWRi)

Division of Water Resources (DWRe)

# Water Use Data – Anticipated Agency Timeline

| When | Action | Who |
|---|---|---|
| **October – December** | **Prepare for upcoming year (e.g., active systems, system boundaries, population served)** | **DDW,** DWRi, DWRe |
| January | Send forms requesting previous year's actual water use data | DWRi |
| January - March | Assist & visit water systems | DWRi |
| **March 1** | **Deadline for water systems to submit the form to DWRi** | DWRi |
| **March** | **Water systems that have not reported are identified in DDW database** | DWRi, **DDW** |
| April – July | Continue to assist & visit systems | DWRi |
| **July** | **50 points are assessed to water systems that fail to submit the completed water use data form** | **DDW** |
| July – August | Review and validate data | DWRe |
| August – Dec. | Contact & visit systems identified by DWRe to validate data | DWRi |
| December | Publish data | DWRi |
| **Ongoing** | **Remove assessed points from systems that report** | **DDW** |
| **Ongoing** | **Analyze data to set system-specific sizing standards** | **DDW** |

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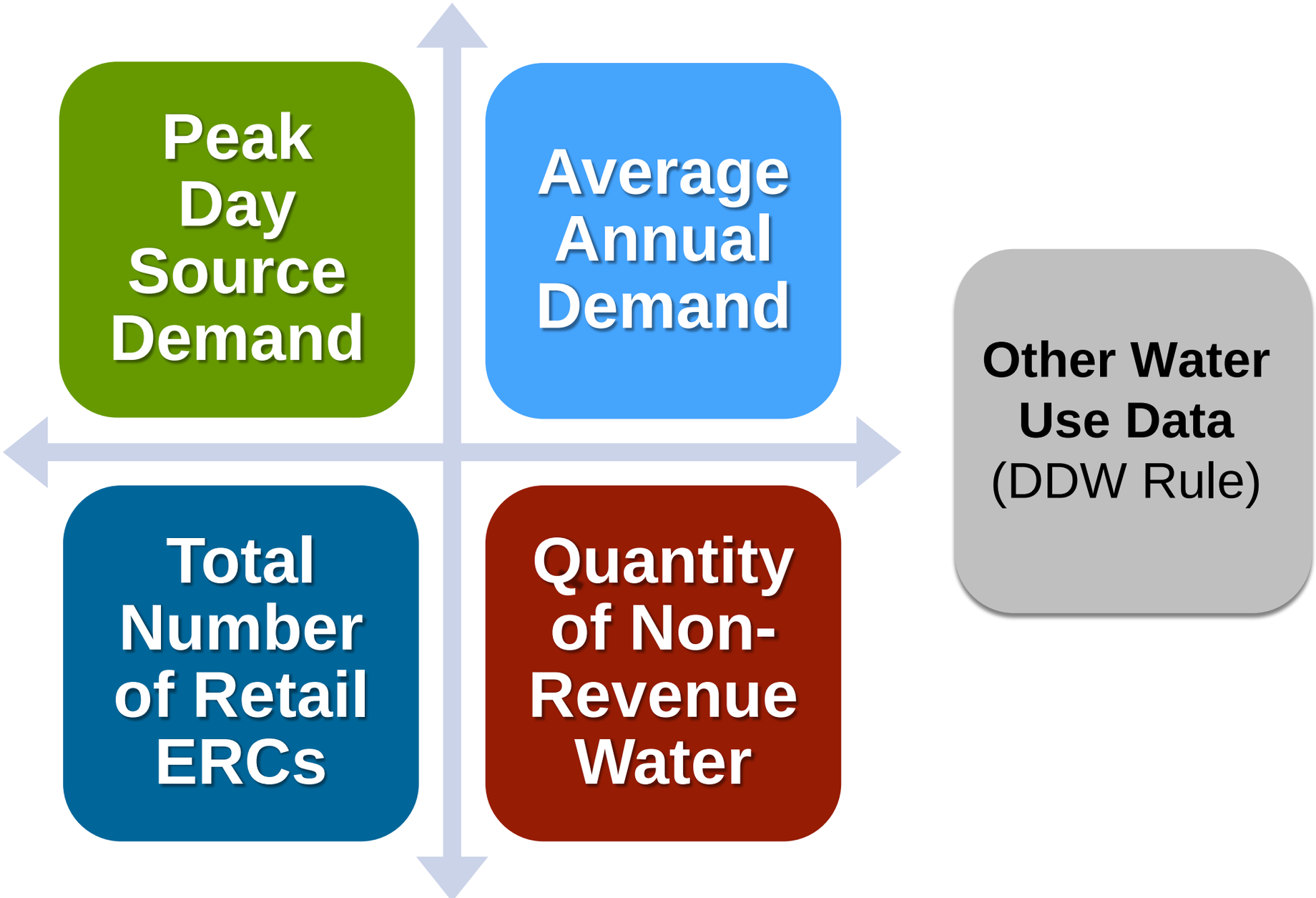
# Utah Code 19-4-104 (Annual Data Reporting)



# Utah Code 19-4-114 (System-Specific Minimum Sizing Requirements)

Information necessary for setting system-specific minimum sizing requirements can be based on one of the following:

**Annual Water Use Data**

- **At least most recent 3 years of actual water use data**

**Alternatives**

- **Engineering Study**
- **Historical Data**

# Utah Code 19-4-104 (Annual Data Reporting)

**Peak Day Source Demand**

- **Total** source flow into the water system to meet the demand on the day of the highest consumption in a year

**Springs (144,000 gallons on peak day)**

**Wells (288,000 gallons on peak day)**

**Wholesale Supply from Other Systems (72,000 gallons on peak day)**

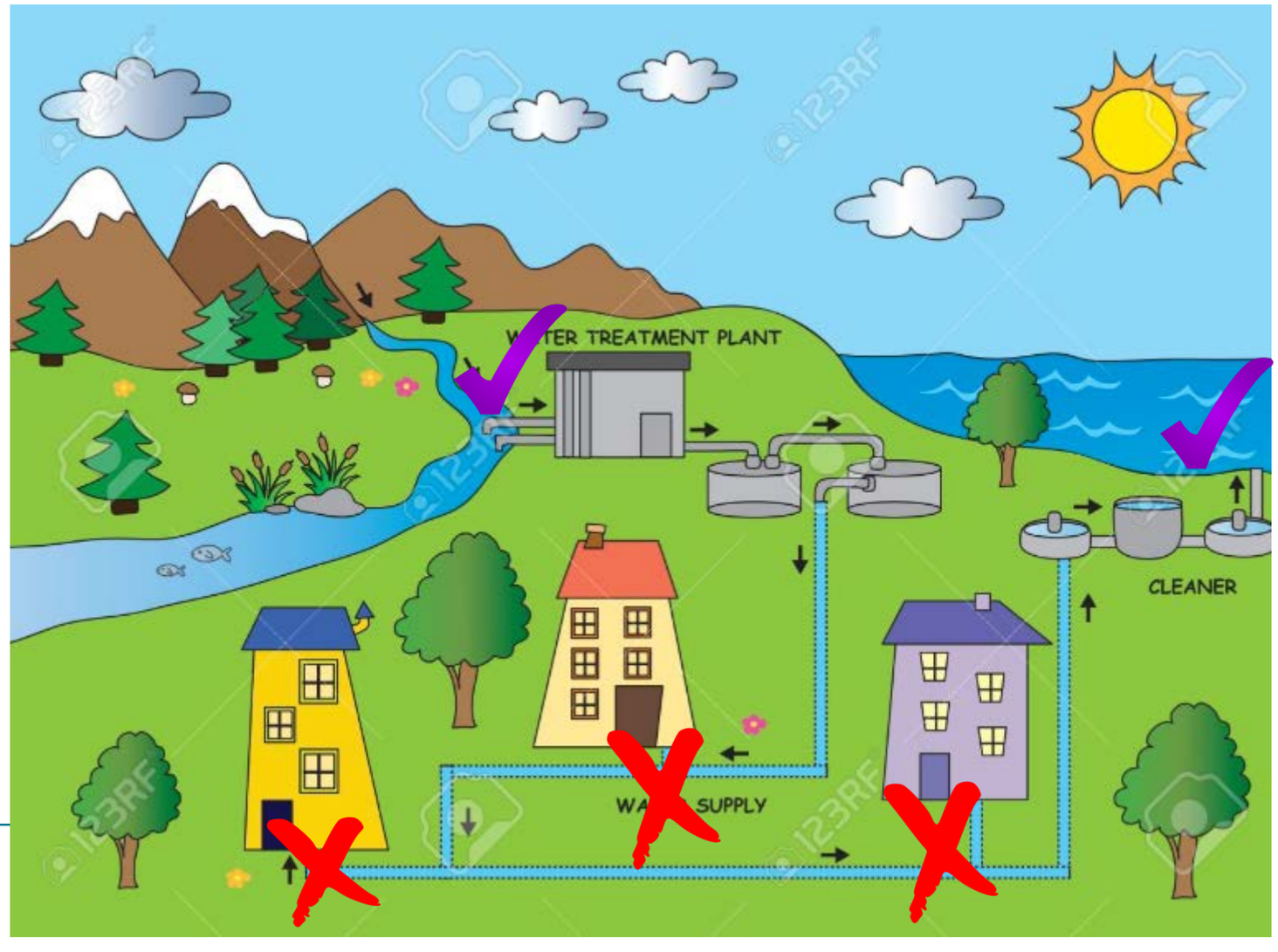
**"Peak Day Source Demand" (504,000 gallons total)**

[144,000 + 288,000 + 72,000 = 504,000 gallons on peak day]

# Utah Code 19-4-104 (Annual Data Reporting)

## Average Annual Demand

- Total quantity (in gallons) of drinking water produced for a public water system in a year
- Based on data metered at water sources (not at service meters of retail connections)



# Utah Code 19-4-104 (Annual Data Reporting)

**Total Number of Retail ERCs**

- Total number of **equivalent residential connections** (ERCs) for **retail services** (i.e., residential and non-residential connections)

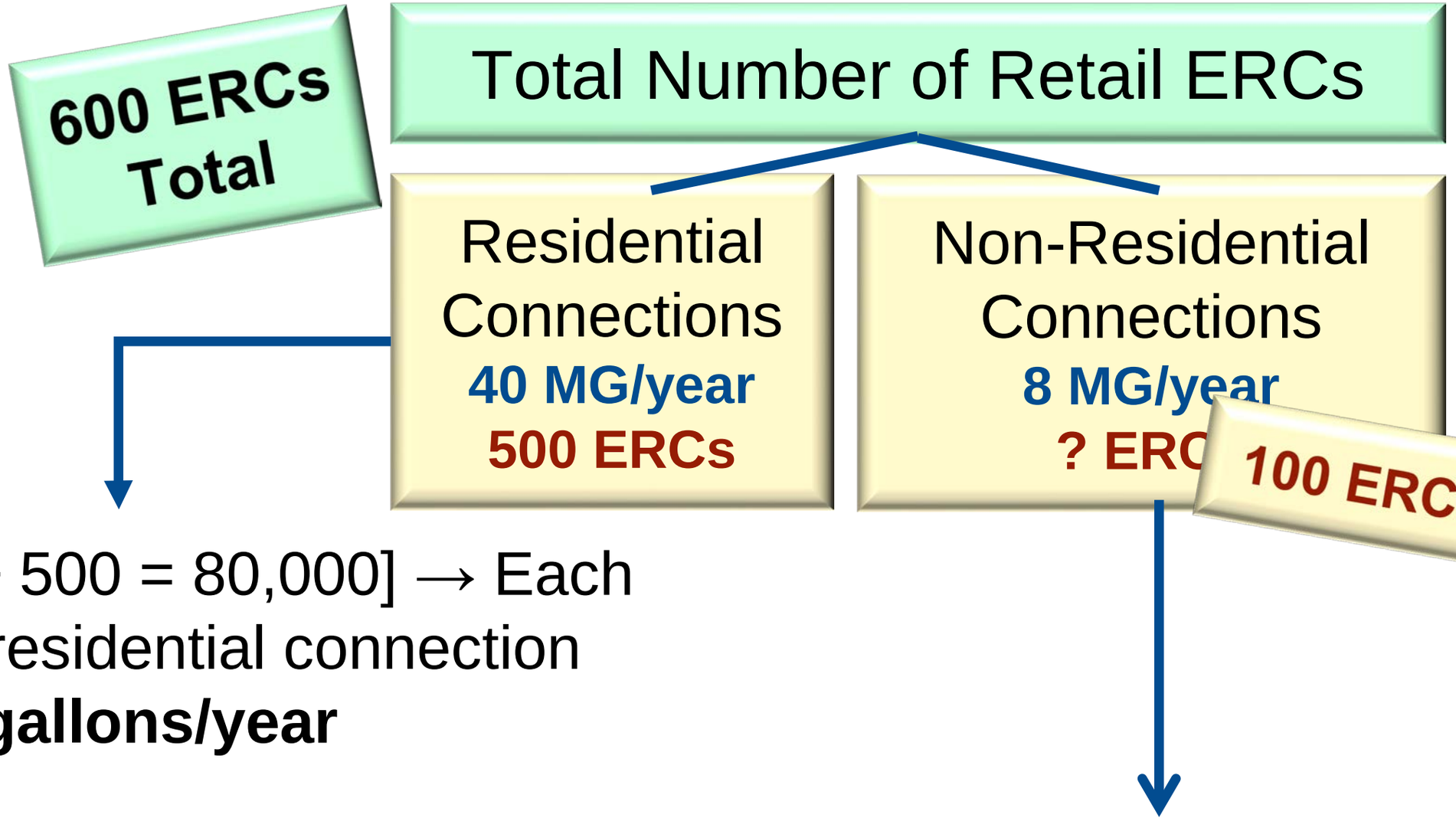
Residential Connections
500 homes
**(500 ERCs)**

Non-Residential Connections
Commercial, Industrial & Institutional
**(100 ERCs)**

Wholesale Supply to Other Water Systems
**NOT included in ERC calc**

Calculating "**Total Number of Retail ERCs**"

# Converting Non-Residential Connections to ERCs




[40,000,000 ÷ 500 = 80,000] → Each single-family residential connection uses **80,000 gallons/year**

[8,000,000 ÷ 80,000 = 100] → 8 MG/year of water use by non-residential connections is equivalent to the demand of 100 single-family residential connections **(100 ERCs)**

# Utah Code 19-4-104 (Annual Data Reporting)

## Quantity of Non-Revenue Water

- An indicator of managing water loss & revenue

PWS Average Annual Demand **(6 MG)** — Water Volume Metered & Billed **(3 MG)** — Wholesale Delivery to Other Water Systems **(2 MG)** = Quantity of Non-Revenue Water **(1 MG)**

# From Data Reporting to Minimum Sizing

Data Submission

Data Review

Process “per ERC” Data

Set Min. Sizing Req’ts

Set Customized Min. Sizing Req’ts *(if triggered)*

Capacity Evaluation

**See “Process Flow Chart” handout**

# From Data Reporting to Minimum Sizing

**Data Submission**

Data Review

Process “per ERC” Data

Set Min. Sizing Req’ts

Set Customized Min. Sizing Req‘ts (if triggered)

Capacity Evaluation

**CWSs** certify & report water use data to **DWRi** each year

# From Data Reporting to Minimum Sizing

Data Submission

↓

**Data Review**

↓

Process “per ERC” Data

↓

Set Min. Sizing Req’ts

↓

Set Customized Min. Sizing Req‘ts (if triggered)

↓

Capacity Evaluation

[**DWRi**] process & review data
→ [**DWRe**] QA/QC data
→ [**DDW**] receive verified data

# From Data Reporting to Minimum Sizing

Data Submission

↓

Data Review

↓

**Process "per ERC" Data**

↓

Set Min. Sizing Req'ts

↓

Set Customized Min. Sizing Req'ts (if triggered)

↓

Capacity Evaluation

[**DDW**] evaluate & convert data to 3 data types:

- **Peak Day Demand per ERC**
- **Average Annual Demand per ERC**
- **Equalization Storage per ERC**

# Process Peak Day Source Demand to "per ERC" Data

## Calculating "Peak Day Demand per ERC" Data

**Peak Day Source Demand**
3,000,000 gallons
during peak day

**Retail**
2,000,000 gallons
during peak day

**1000 ERCs**

**Wholesale**
1,000,000 gallons
during peak day

(2,000,000 gallons/day) ÷ 1,000 = **2,000 gallons/day per ERC**

**"Peak Day Demand per ERC" Data**

# Example – Convert Reported Data to "per ERC" Data

**"Peak Day Demand per ERC"** Data **= [Peak Day Source Demand]**
(in gallons/day) **[Total Number of ERCs]**

**See "Equation Summary" handout**

| Year | Operational Days in the Year | Total Number of ERCs | "**Peak Day Demand per ERC**" Data (gallons/day) | | |
|---|---|---|---|---|---|
| 2018 | 183 | 2,592 | 1,929 | | |
| 2017 | 160 | 2,500 | 1,748 | | |
| 2016 | 220 | 2,300 | 1,710 | | |

# Example – Convert Reported Data to "per ERC" Data

**"Peak Day Demand per ERC"** Data **= [Peak Day Source Demand]** / **[Total Number of ERCs]**
(in gallons/day)

**"Average Annual Demand per ERC"** Data **= [Average Annual Demand]** / **[Total Number of ERCs]**
(in gallons/year)

| Year | Operational Days in the Year | Total Number of ERCs | "**Peak Day Demand per ERC**" Data (gallons/day) | "**Average Annual Demand per ERC**" Data (gallons/year) | |
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| 2018 | 183 | 2,592 | 1,929 | 113,525 | |
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# Example – Convert Reported Data to "per ERC" Data

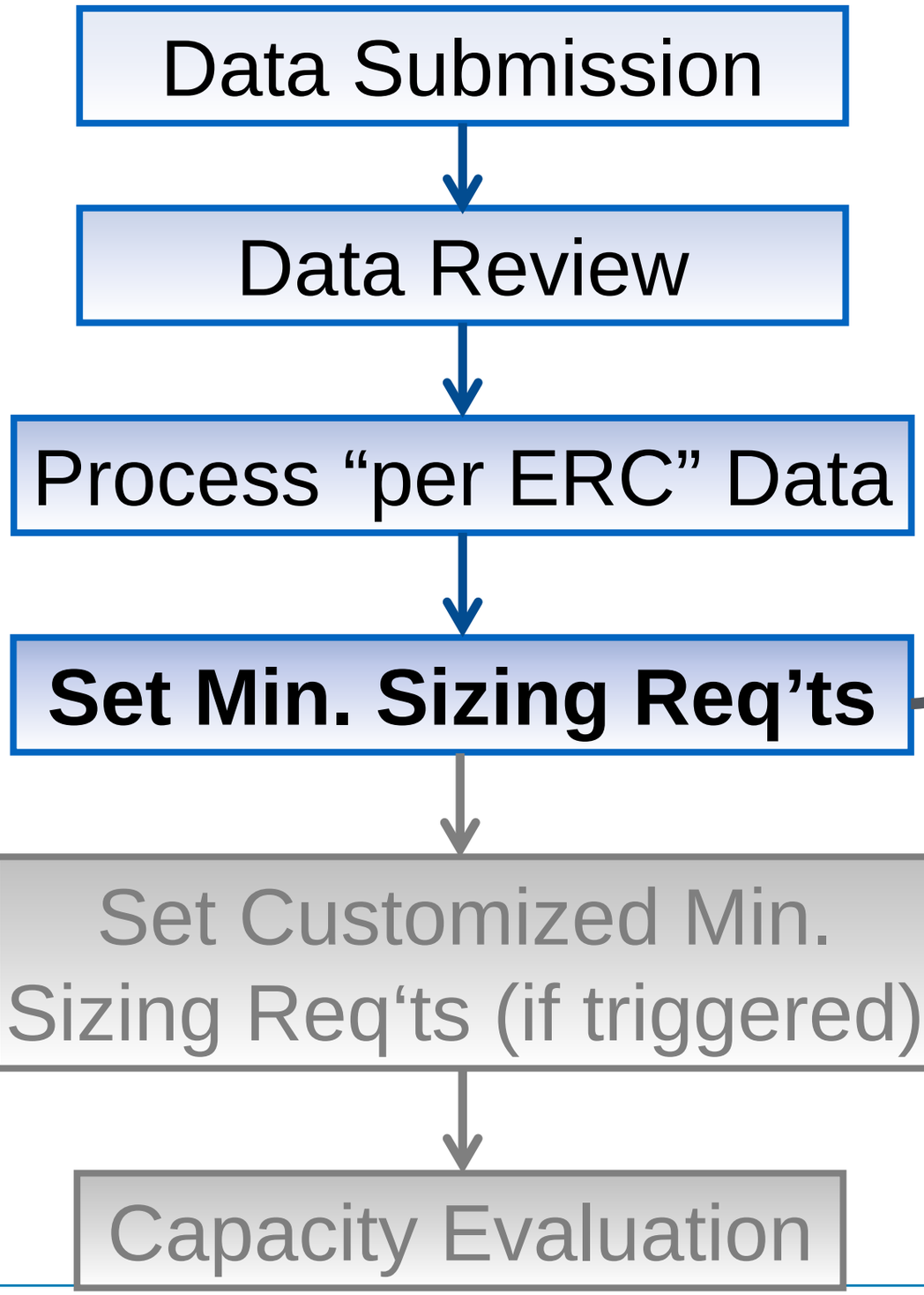
**"Peak Day Demand per ERC"** Data **= [Peak Day Source Demand] / [Total Number of ERCs]**
(in gallons/day)

**"Average Annual Demand per ERC"** Data **= [Average Annual Demand] / [Total Number of ERCs]**
(in gallons/year)

**"Equalization Storage per ERC"** Data **= [Average Annual Demand per ERC] / [Operational Days in a Year]**
(in gallons)

| Year | Operational Days in the Year | Total Number of ERCs | "**Peak Day Demand per ERC**" Data (gallons/day) | "**Average Annual Demand per ERC**" Data (gallons/year) | "**Equalization Storage per ERC**" Data (gallons) |
|---|---|---|---|---|---|
| 2018 | 183 | 2,592 | 1,929 | 113,525 | 620 |
| 2017 | 160 | 2,500 | 1,748 | 106,327 | 665 |
| 2016 | 220 | 2,300 | 1,710 | 152,174 | 692 |

# From Data Reporting to Minimum Sizing




[**DDW Program**]

1. Evaluate “per ERC” data
2. Select a specific value for each “per ERC” data type
3. Check for anomalies
4. Apply a “system- specific variation factor”
5. Set the corresponding “per ERC minimum sizing requirements”

# Example – Selecting A Value for Each "per ERC" Data Type for Calculation

| Year | Operational Days in the Year | Total Number of ERCs | "**Peak Day Demand per ERC**" Data (gallons/day) | "**Average Annual Demand per ERC**" Data (gallons/year) | "**Equalization Storage per ERC**" Data (gallons) |
|---|---|---|---|---|---|
| 2018 | 183 | 2,592 | 1,929 | 113,525 | 620 |
| 2017 | 160 | 2,500 | 1,748 | 106,327 | 665 |
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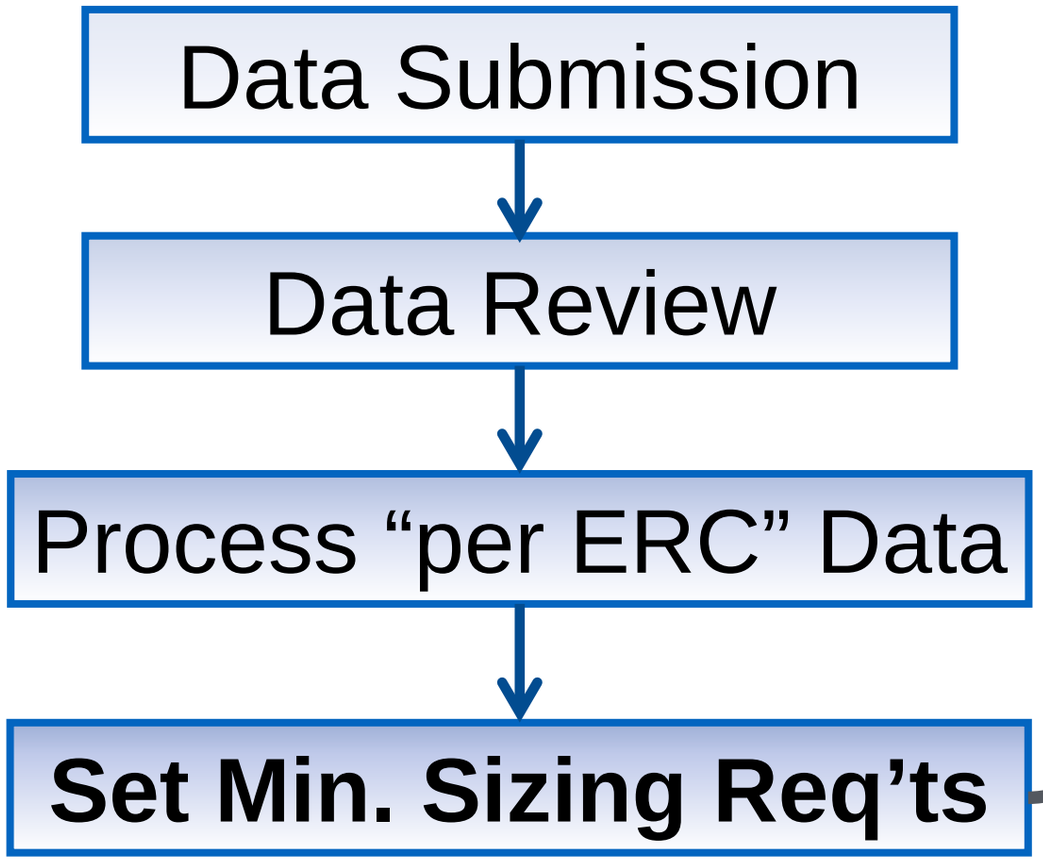
**Select the <u>highest</u> value for each "per ERC" data type based on at least 3 years of data**

# From Data Reporting to Minimum Sizing




**[DDW Program]**

1. Evaluate “per ERC” data
2. Select a specific value for each “per ERC” data type
3. Check for anomalies
4. Apply a “system- specific variation factor”
5. Set the corresponding “per ERC minimum sizing requirements”

# Example – Selecting "System-Specific Variation Factor"

| Year | Operational Days in the Year | Total Number of ERCs | "**Peak Day Demand per ERC**" Data (gallons/day) | "**Average Annual Demand per ERC**" Data (gallons/year) | "**Equalization Storage per ERC**" Data (gallons) |
|---|---|---|---|---|---|
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| 2017 | 160 | 2,500 | 1,748 | 106,327 | 665 |
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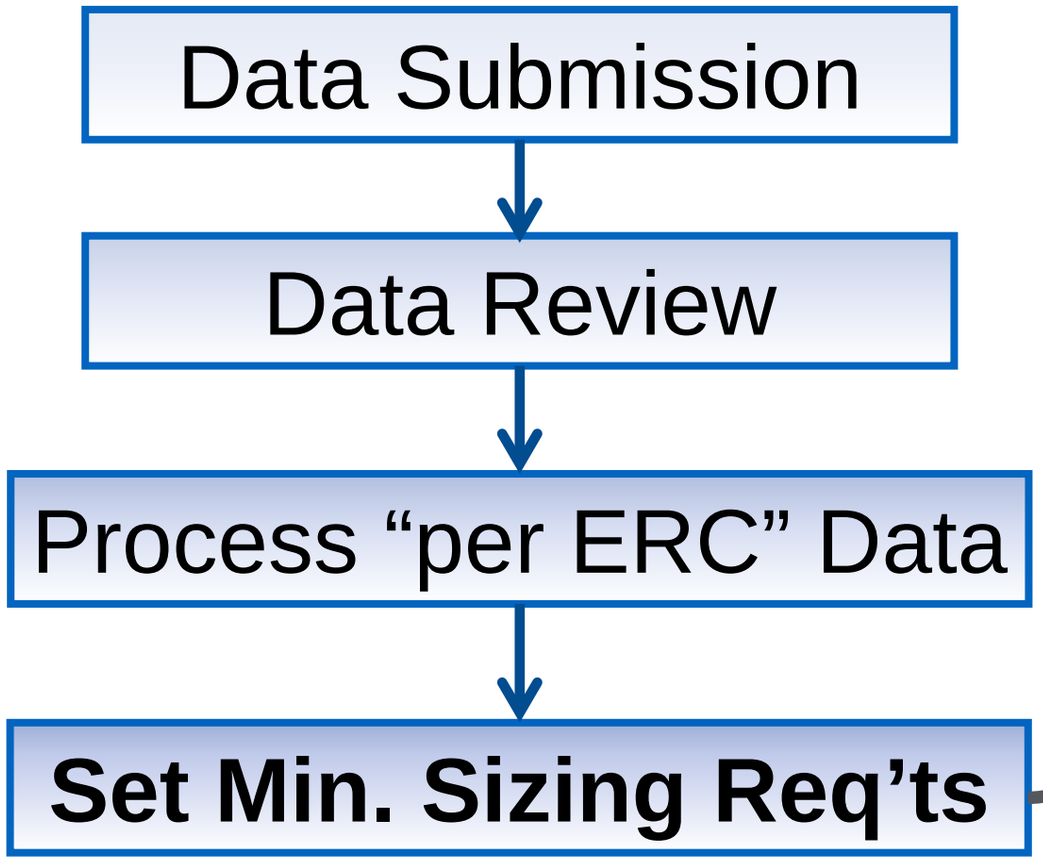
**System-Specific Variation Factor**
= (1,929 – 1,710) ÷ 1,710
= 0.128
= 12.8%
(selected by DDW program)

**System-Specific Variation Factor**
= (152,174 – 106,327) ÷ 106,327
= 0.301
= 30.1% → **Triggers further review**
→ DDW Committee evaluates data and determines a customized factor (20%)

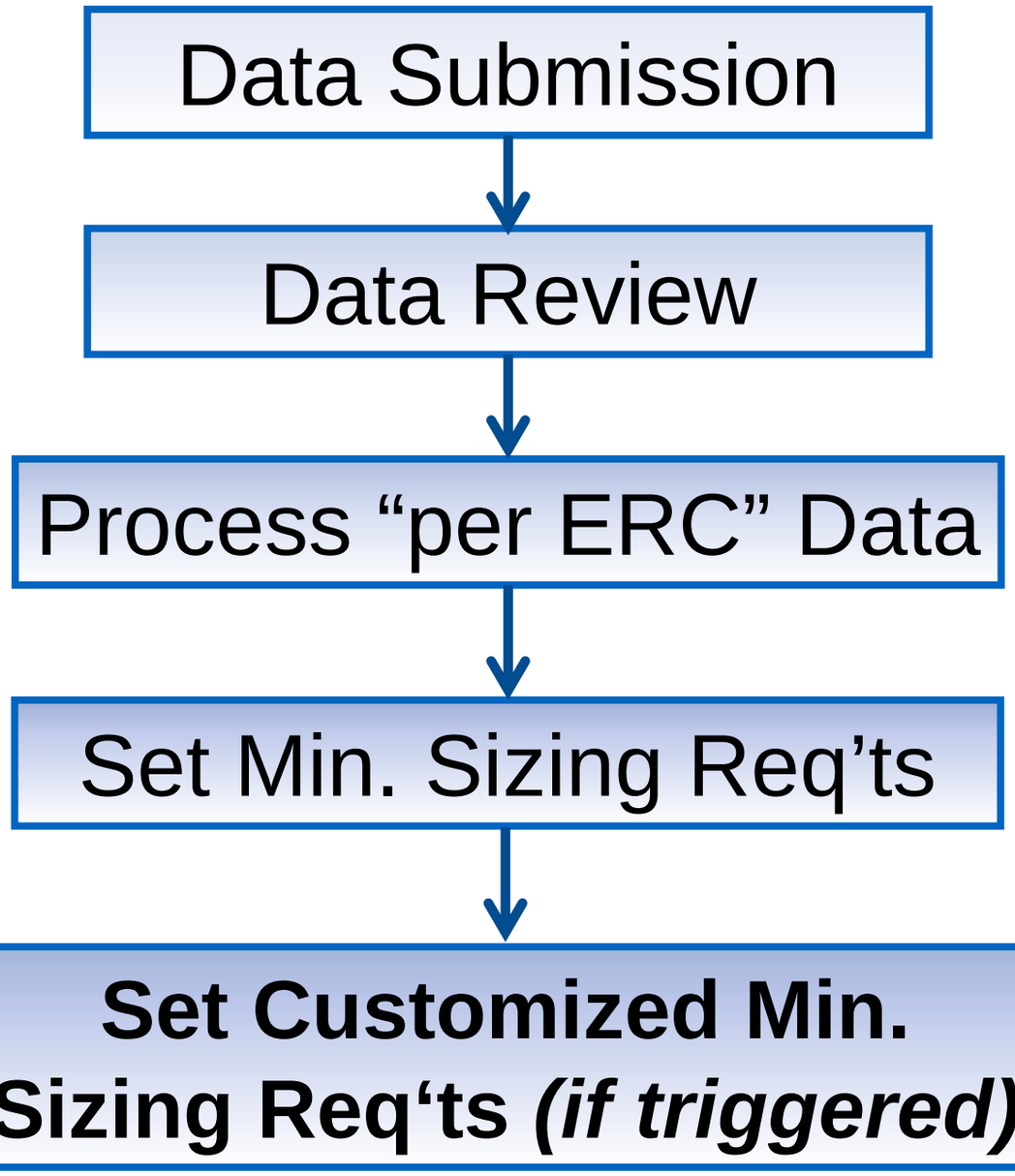
# From Data Reporting to Minimum Sizing




**[DDW Program]**

1. Evaluate “per ERC” data
2. Select a specific value for each “per ERC” data type
3. Check for anomalies
4. Apply a “system- specific variation factor”
5. Set the corresponding “per ERC minimum sizing requirements”

# From Data Reporting to Minimum Sizing




[**DDW Review Committee**]

1. Review the data & selects a specific value for each “per ERC” data type
2. Determine a **customized** “system-specific variation factor”
3. Apply the factor to the selected value
4. Set corresponding “per ERC minimum sizing requirements”

# Example – Setting System-Specific Minimum Sizing Requirements

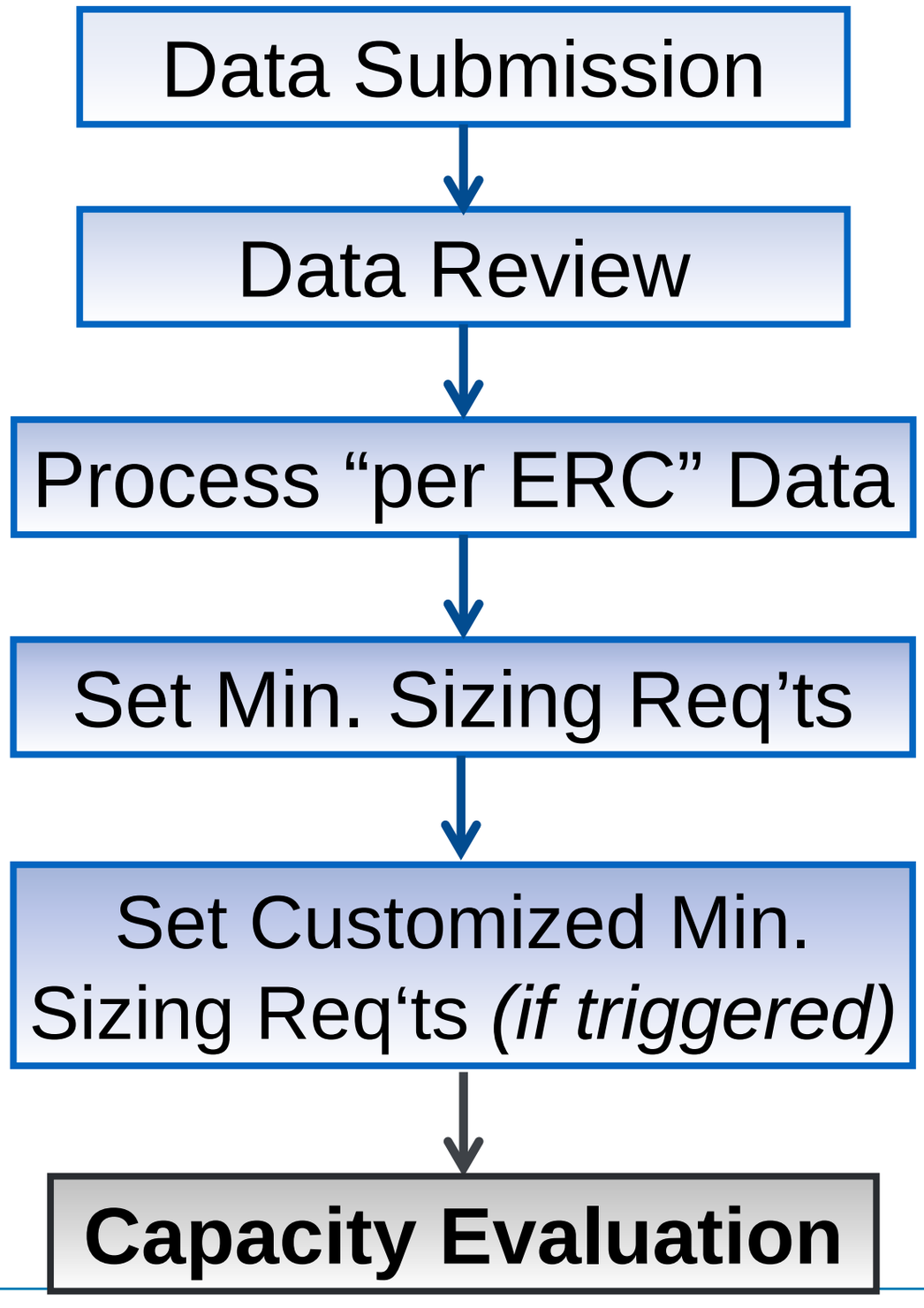
| Year | Operational Days in the Year | Total Number of ERCs | "**Peak Day Demand per ERC**" Data (gallons/day) | "**Average Annual Demand per ERC**" Data (gallons/year) | "**Equalization Storage per ERC**" Data (gallons) |
|---|---|---|---|---|---|
| 2018 | 183 | 2,592 | 1,929 | 113,525 | 620 |
| 2017 | 160 | 2,500 | 1,748 | 106,327 | 665 |
| 2016 | 220 | 2,300 | 1,710 | 152,174 | 692 |
| System-Specific Variability Factor: | | | 12.8% | *20% | *20% |

**Peak Day Demand per ERC min. sizing requirement** = 1,929 × (1 + 12.8%) = **2,176 gallons/day**

**Average Annual Demand per ERC min. sizing req't** = 1,52,174 × (1 + 20%) = ***182,609 gallons/day**

**Equalization Storage per ERC min. sizing requirement** = 692 × (1 + 20%) = ***830 gallons**

# From Minimum Sizing to Capacity Evaluation



## Example – Estimating Source & Storage Capacity Needed for 3,000 ERCs

| Year | Operational Days in the Year | Total Number of ERCs | "**Peak Day Demand per ERC**" Data (gallons/day) | "**Average Annual Demand per ERC**" Data (gallons/year) | "**Equalization Storage per ERC**" Data (gallons) |
|---|---|---|---|---|---|
| 2018 | 183 | 2,592 | 1,929 | 113,525 | 620 |
| 2017 | 160 | 2,500 | 1,748 | 106,327 | 665 |
| 2016 | 220 | 2,300 | 1,710 | 152,174 | 692 |
| **Per ERC Minimum Sizing Req'ts:** | | | 2,176 | 182,609 | 830 |

**Source Capacity:**

**Peak Day Source Demand** = 2,176 × 3,000 = 6,528,00 gallons/day

(~ 6.5 MG during the peak day)

**Average Annual Demand** = 182,609 × 3,000 = 547,827,000 gal/year

(~ 547.8 MG in a year)

**Storage Capacity:**

**Equalization Storage** = 830 × 3,000 = 2,490,000 gallons = 2.49 MG

# What Can PWS Do to Prepare for New Requirements

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**Understand the New Requirements**

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**Evaluate Your Water Use Data & Identify Gaps**

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**Evaluate Metering Equipment**

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**Evaluate SCADA Equipment & Contract**

# What Can PWS Do to Prepare for New Requirements

Understand the New Requirements

Evaluate Your Water Use Data & Identify Gaps

Evaluate Metering Equipment

Evaluate SCADA Equipment & Contract

**Communicate with Water Agencies & Consultant**

# What Can PWS Do to Prepare for New Requirements

Division of Drinking Water (DDW):

- Technical Assistance – Data, Sizing, Eng. Study
- Funding Assistance – Metering & SCADA
- Enter into a compliance agreement (if needed)

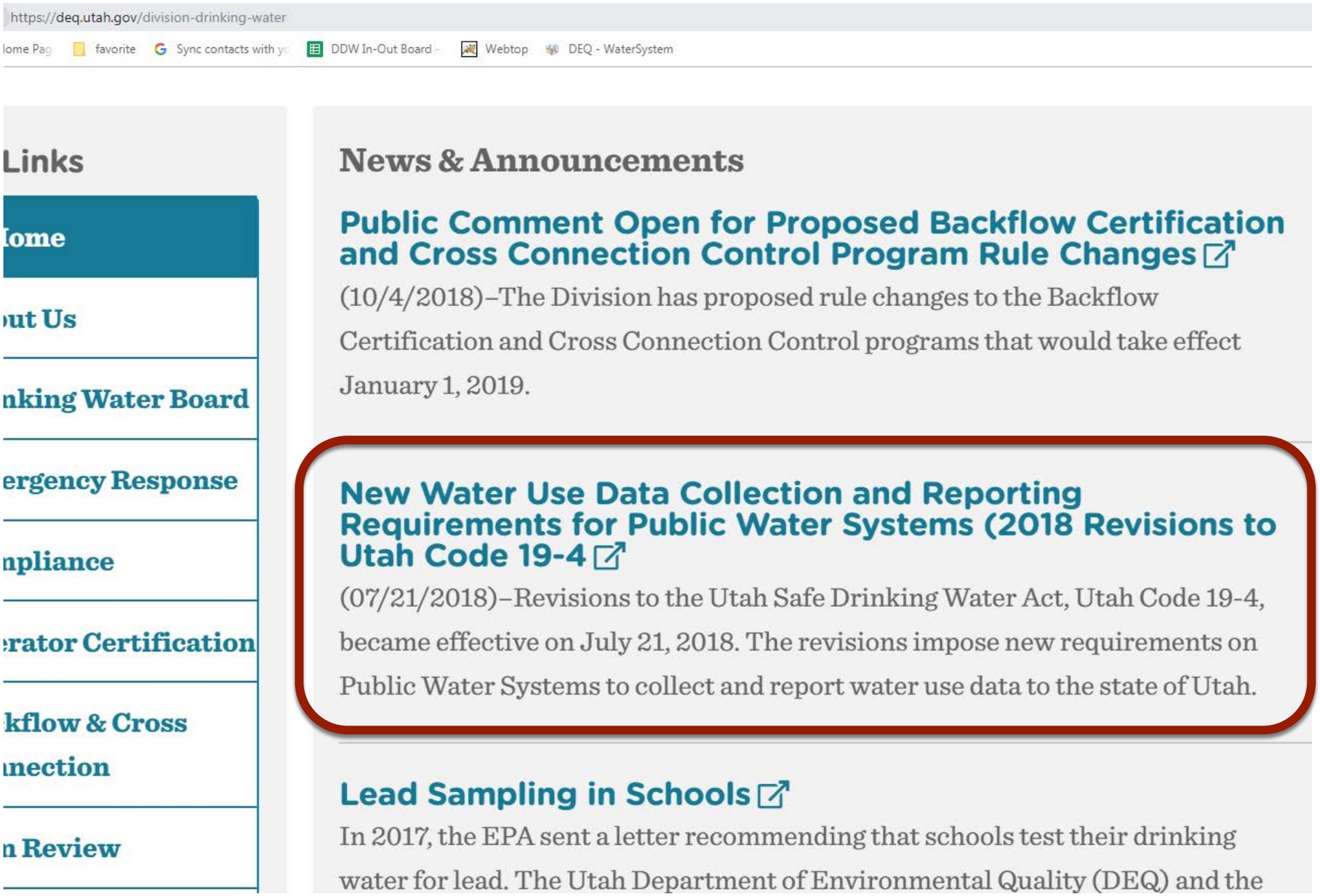
**Communicate with Water Agencies & Consultant**

# Key Factors Affecting the Transition to System-Specific Minimum Sizing Requirements

- ✓ Improved Ability in Metering & Reporting
- ✓ Coordination & Communication between Three Water Agencies & CWSs
- ✓ Complex & Time-Consuming  Process
- ✓ Manpower
- ✓ Technology

# Resources

## Division of Drinking Water Website



# Legislative Revisions to Utah Code 19-4 in 2018 – New Water Use Data Collection and Reporting Requirements and Setting System-Specific Sizing Requirements

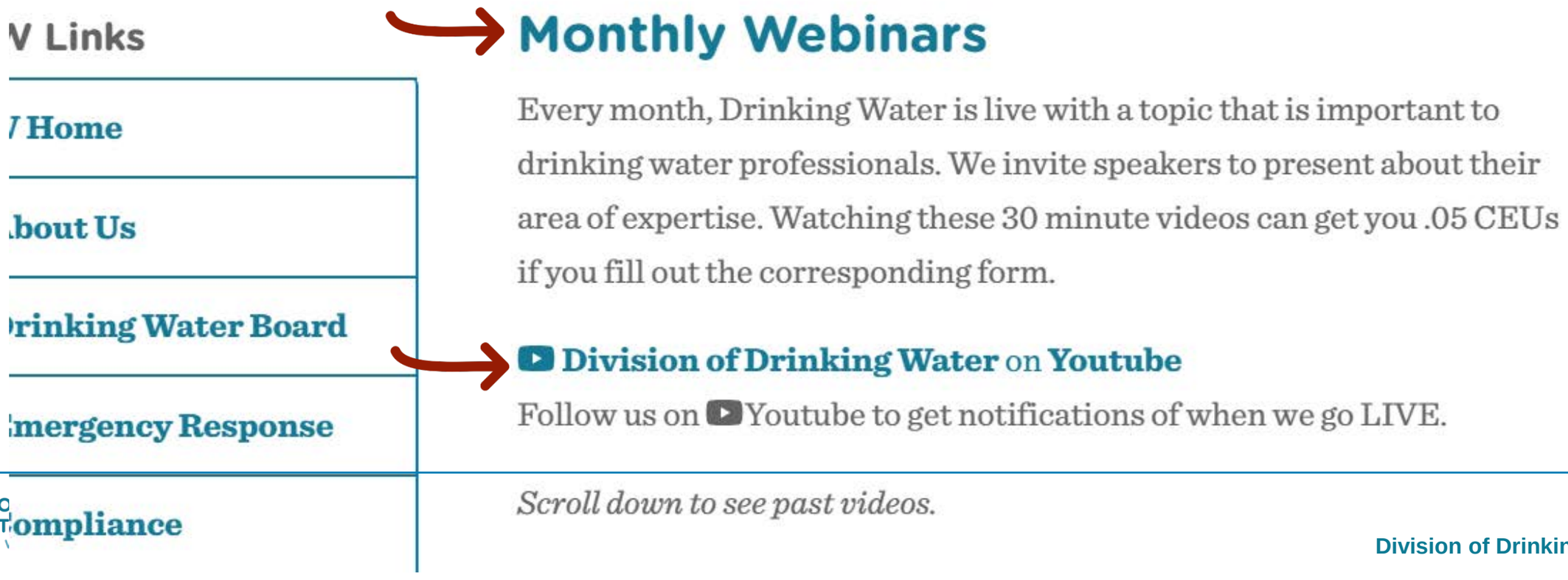
Revisions to the *Utah Safe Drinking Water Act*, Utah Code 19-4, enacted by the 2018 Legislature became effective on July 21, 2018. The revisions impose new requirements on public water systems to collect and report water use data to the state of Utah and specify the type of data that are required to be reported. The revisions also require the Division of Drinking Water (DDW) to use the water use data to establish system-specific source and storage minimum sizing requirements. The system-specific requirements will replace current statewide standards in phases. DDW is working on revising the current minimum sizing rule (R309-510) to implement the new requirements accordingly.

Information about new requirements imposed by the revisions to Utah Code 19-4 can be found below:

- General Guidance for Water Use Data Reporting (514.2 KB)
- Detailed Guidance for Water Use Data Reporting and Setting System-Specific Minimum Sizing Requirements (Draft) (2.2 MB)
- Notice to Community Water Systems Serving Greater than 3,300 Persons – Water Use Data Reporting Due March 1, 2019
- Presentation Slides – Implementing New Drinking Water Sizing Requirements (5.81 MB)
- Presentation Handouts – Implementing New Drinking Water Sizing Requirements (1.16 MB)
- Summary of New Requirements by Water System Size and Type
- Division of Water Rights – Water Use Program (for reporting water use data)

# Resources

## Division of Drinking Water – Monthly Webinars

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