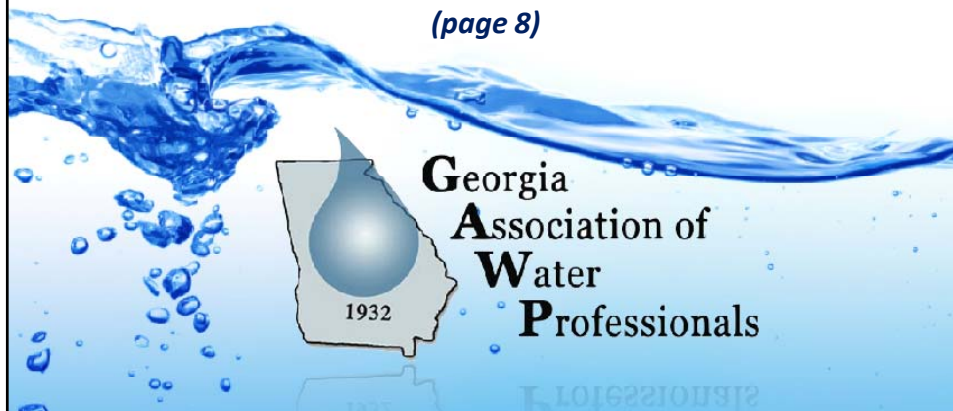


## ***Georgia Water Audit and Loss Control Training Workshop***

### ***IWA/AWWA Water Audit Definitions and Concepts***

*(page 8)*



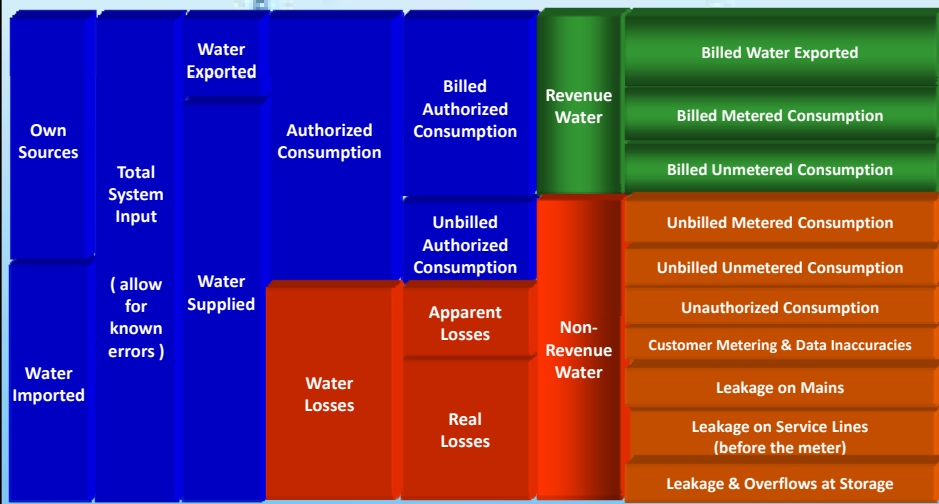
## **IWA/AWWA Methodology**

- International Water Association and American Water Works Association
- Nationally and internationally accepted methodology
- Provides definitions and a standard set of performance indicators
- Fully vetted and continually critiqued

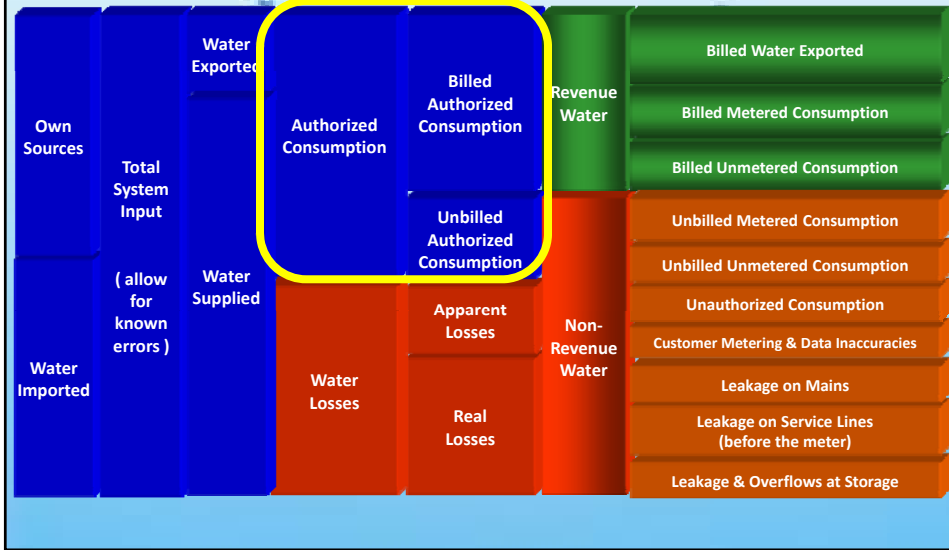
## Water Balance Development

- Top-Down = “desktop” exercise using existing estimations and records
  - understanding of terminology and data required
  - **only as good as the data that is used!**
- Bottom-Up = **detailed** investigation into actual policies and practices
  - better estimates of water use by the fire department
  - quantify water used in line flushing
  - metering of all authorized uses

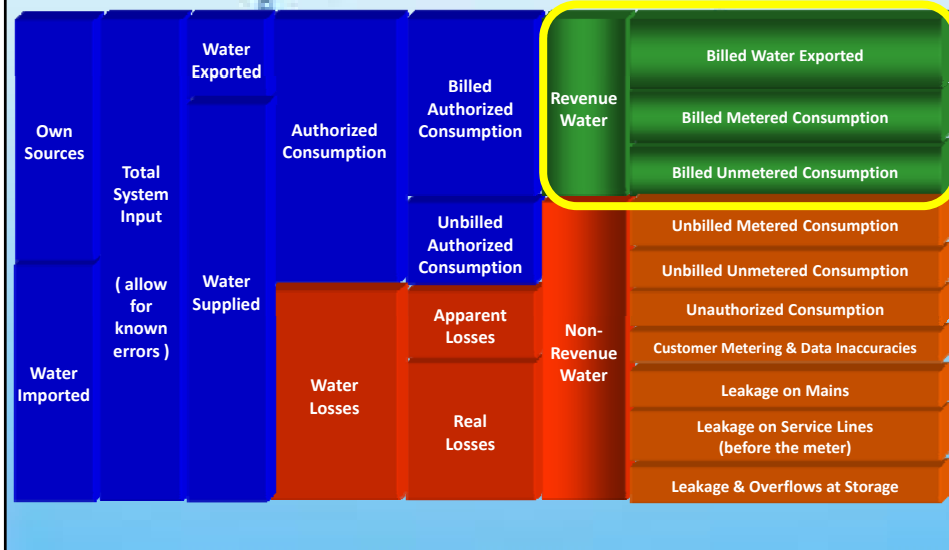
## IWA/AWWA Standard Water Balance



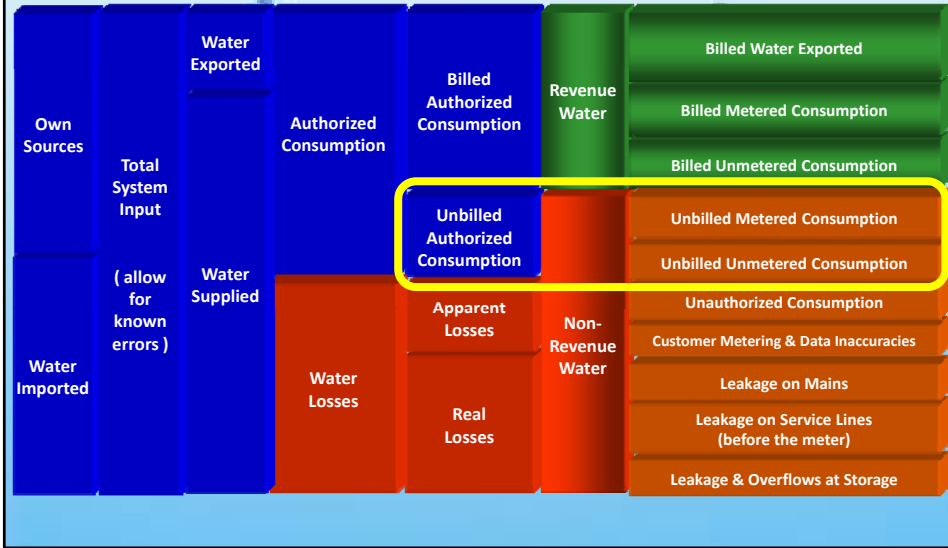
## IWA/AWWA Standard Water Balance



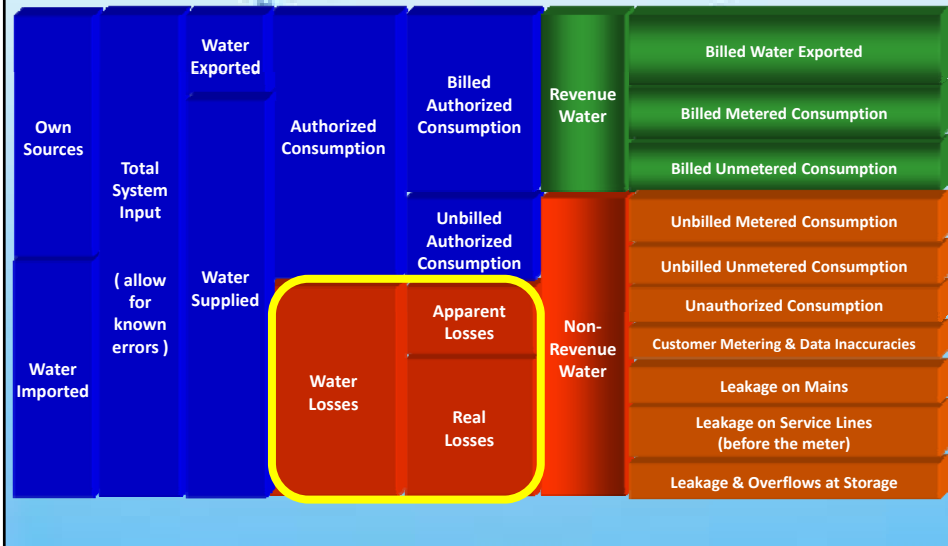
## IWA/AWWA Standard Water Balance



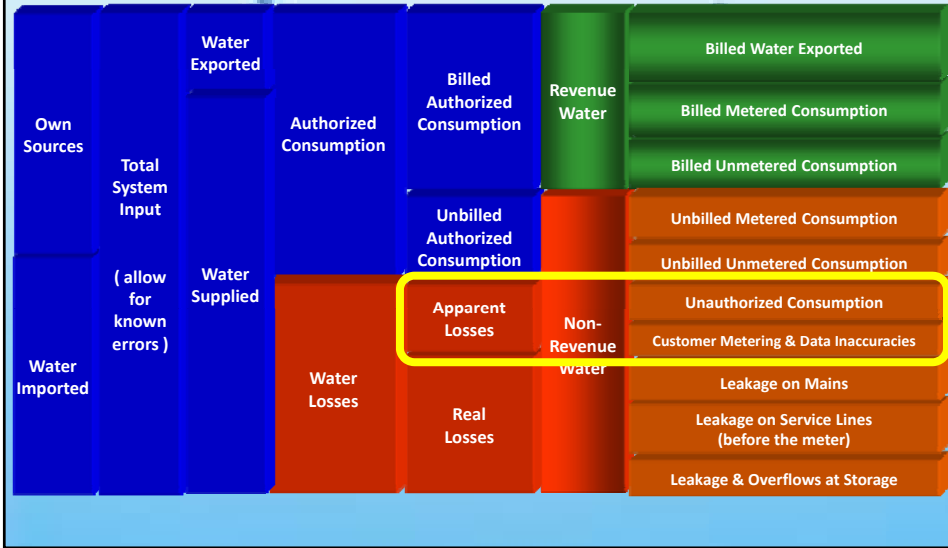
## *IWA/AWWA Standard Water Balance*



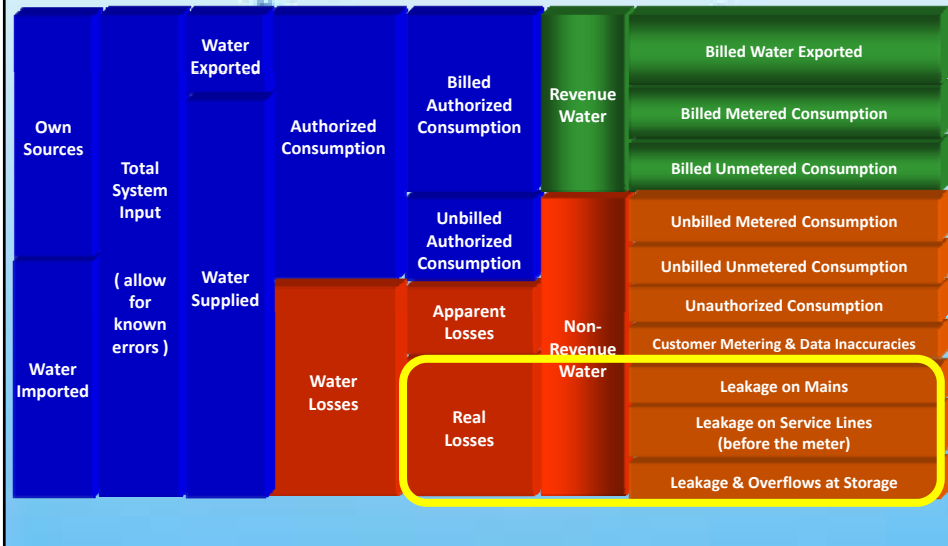
## *IWA/AWWA Standard Water Balance*



## *IWA/AWWA Standard Water Balance*



## *IWA/AWWA Standard Water Balance*



## ***“Unaccounted-for Water Percentage” Just Doesn’t Cut It!***

- No consistent definitions for the components
- Internationally, there is no standard definition for the term “unaccounted-for” water itself
- Percentage indicators have been found to be suspect in measuring technical performance
- Percentage indicators translate nothing about water volumes and costs

## **Outputs of Water Audit Software**

### Key Performance Indicators

- Real Loss Volume
- Apparent Loss Volume
- **Infrastructure Leakage Index (ILI)**
- Annual Cost of Real Losses
- Annual Cost of Apparent Losses
- **VALIDITY!**