

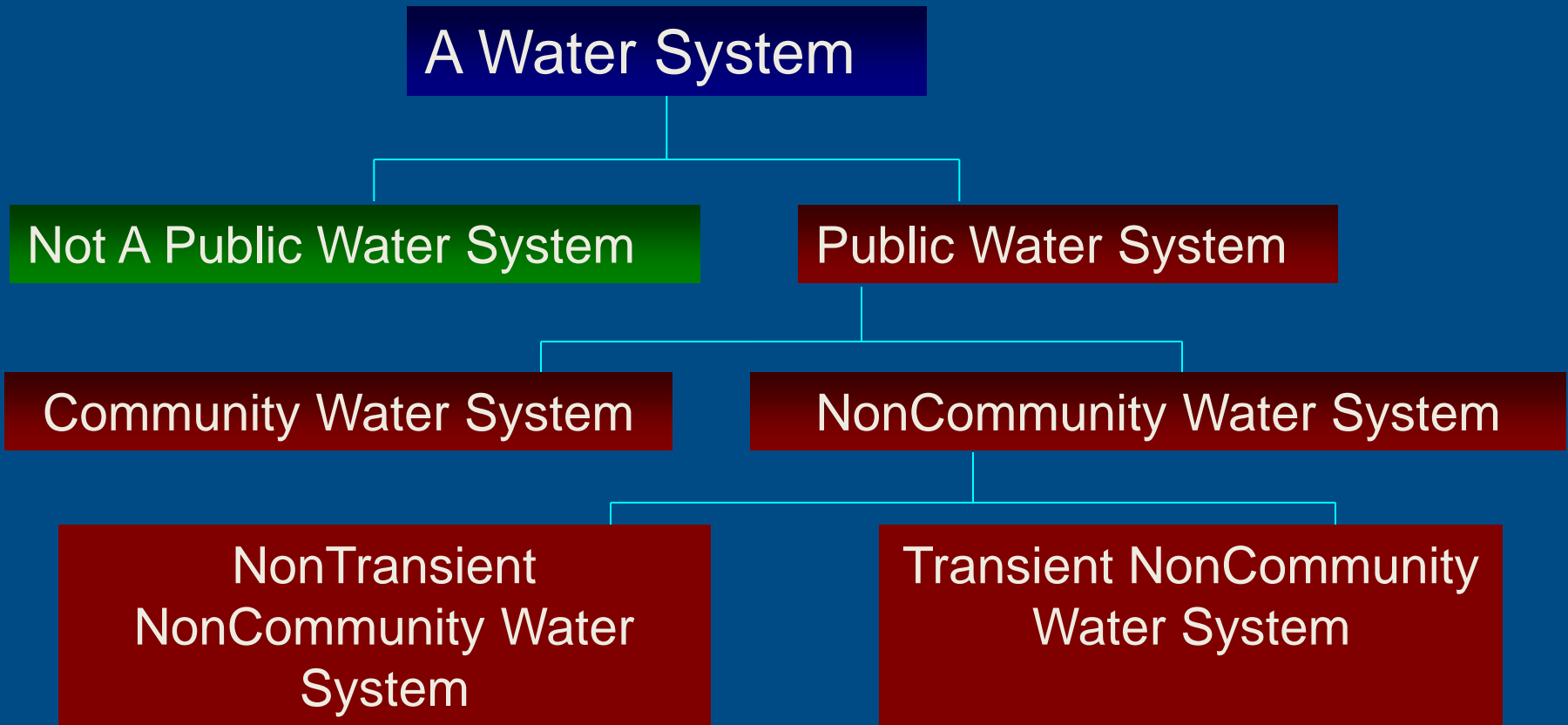
# Summary of Safe Drinking Water Act Community Water System Monitoring Requirements

Sources: Various EPA Publications

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# Regulatory Distinctions Between Water Systems



# Definitions of Various Water Systems

- **Public Water System (PWS)** -- a system for the provision to the public of water for human consumption through pipes or other constructed conveyances,  
if such system has at least fifteen service connections or regularly serves *an average of at least twenty-five individuals*  
*daily at least 60 days out of the year*

(SDWA Sec. 1401(4), 40 CFR 141.2)

# Definitions of Various Water Systems

- **Community Water System (CWS)** -- a public water system that serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.
- Serves people where they live.
- Exposure to contaminants could be lifetime.  
(SDWA Sec. 1401(15), 40 CFR 141.2)

# Definitions of Various Water Systems

- **Non-Community Water System (NCWS)** -- a public water system that does not serve the same people year-round..
- There are two types of non-community systems (based on the length of exposure of the consumers to the water): transient and non-transient.

(SDWA Sec. 1401(16), 40 CFR 141.2)

# Definitions of Various Water Systems

- **Non-transient Non-Community Water System (NTNCWS)** -- a non-community water system that regularly serves at least 25 of the same persons over 6 months of the year but not year-round.
- e.g., schools or businesses with their own water system
- Exposure to contaminants could be similar to that for community water systems.

(40 CFR 141.2)

# Definitions of Various Water Systems

- **Transient Non-Community Water System (TNCWS)** -- a non-community water system that does not regularly serve at least 25 of the same individuals at least 6 months per year.
- e.g., rest areas, campgrounds, truck stops, visitor centers with their own water system
- Individual exposure to the water is very short-term. (40 CFR 141.2)

# SDWA Monitoring Requirement Summary

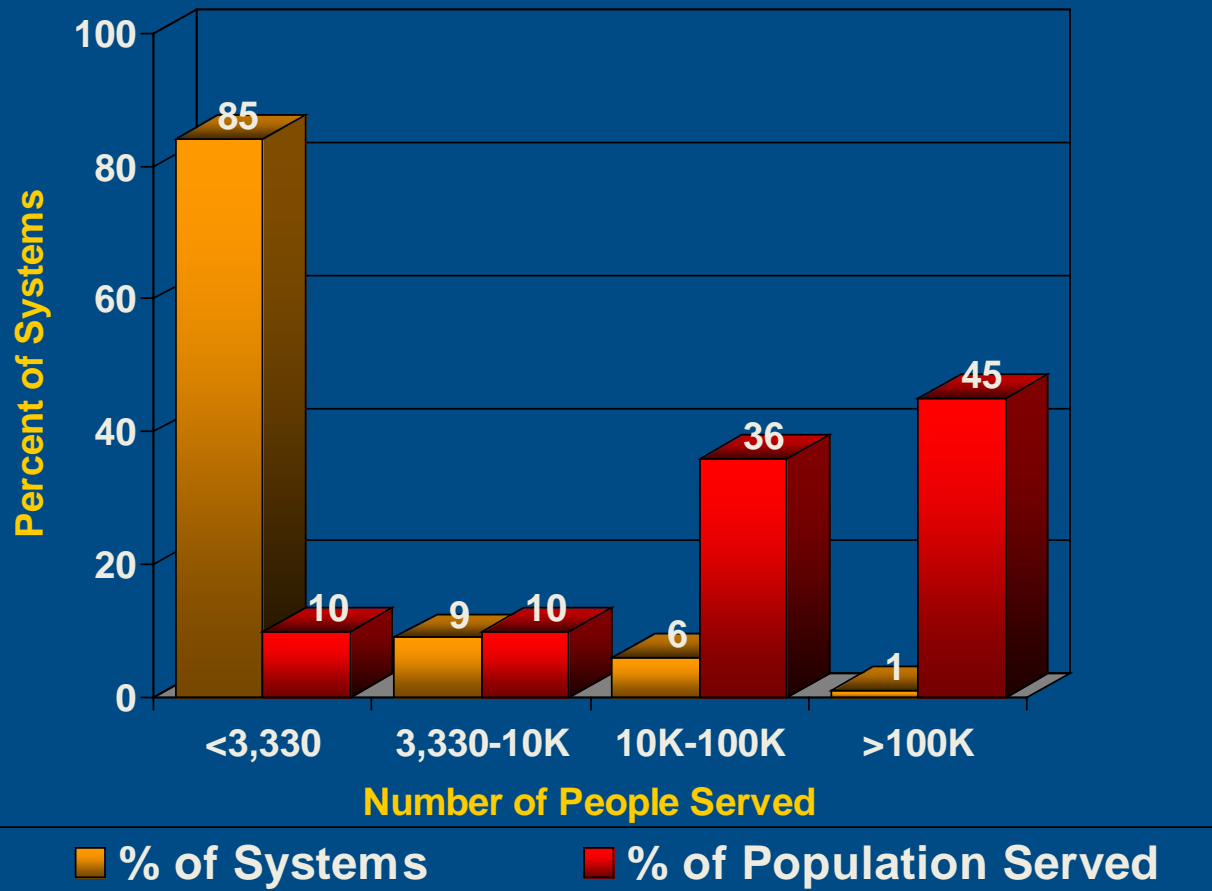
Monitoring Requirement	Location	System Type			Frequency
Total Coliform Rule	Distribution	C	NTNC	TNC	Monthly - # smpls based on pop
Free Residual Chlorine	Distribution	C	NTNC	TNC	Same as TCR
Stage 1 Disinfection By-Products	Distribution	C	NTNC		GW - Annually or 1/3 years
Lead Copper Rule	Distribution	C	NTNC		6 months, annually, or 1/3 yrs depending on results
Nitrate	Entry Point	C	NTNC	TNC	Annual
Inorganics	Entry Point	C	NTNC		1/3 yrs. 1/6 or 1/9 yrs depending on results
VOCs	Entry Point	C	NTNC		Quarterly. Can reduce to annual, 1/3, or 1/6 years
SOCs	Entry Point	C	NTNC		Quarterly. Can reduce to annual, 1/3
Radionuclides	Entry Point	C			Quarterly. Can reduce to 1/3, 1/6, or 1/9 years
Groundwater Rule (GWR)	Source	C	NTNC	TNC	Source water sampling if TCR detect



# System Classification by Size

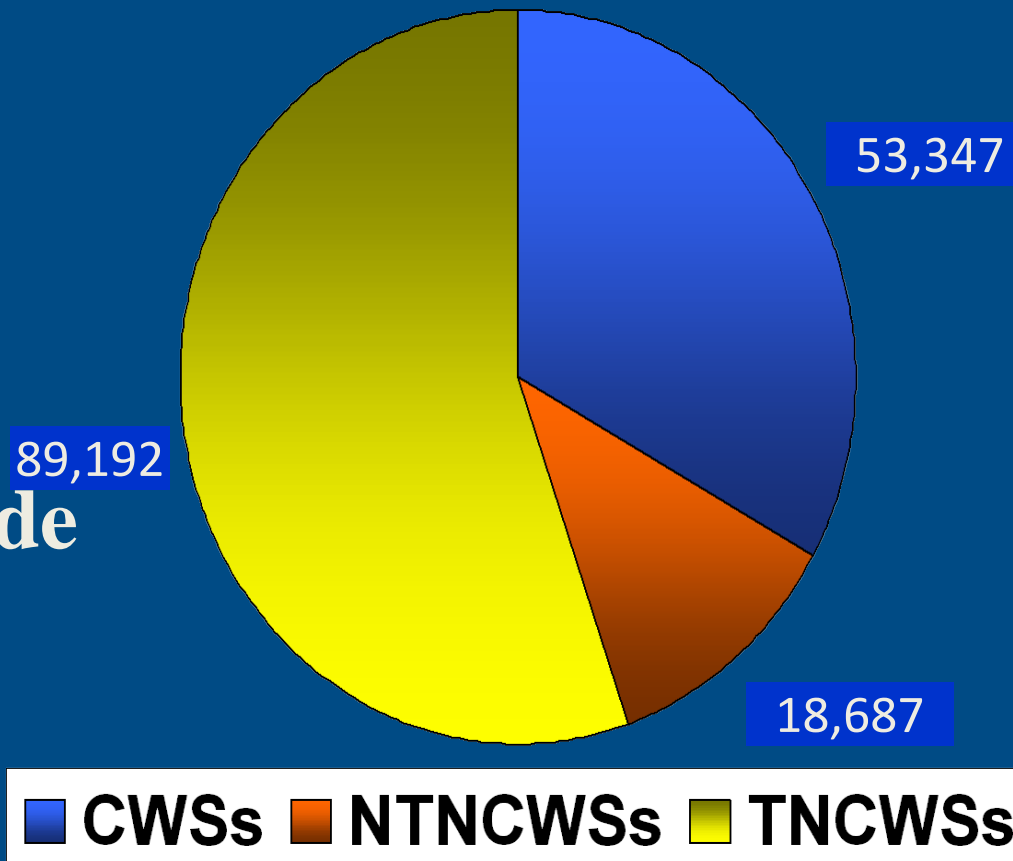
Size	Population Served
Very Small	$\leq 500$
Small	501 - 3,300
Medium	3,301 - 10,000
Large	10,001-100,000
Very Large	$> 100,000$

# National Statistics - CWSs by System Size



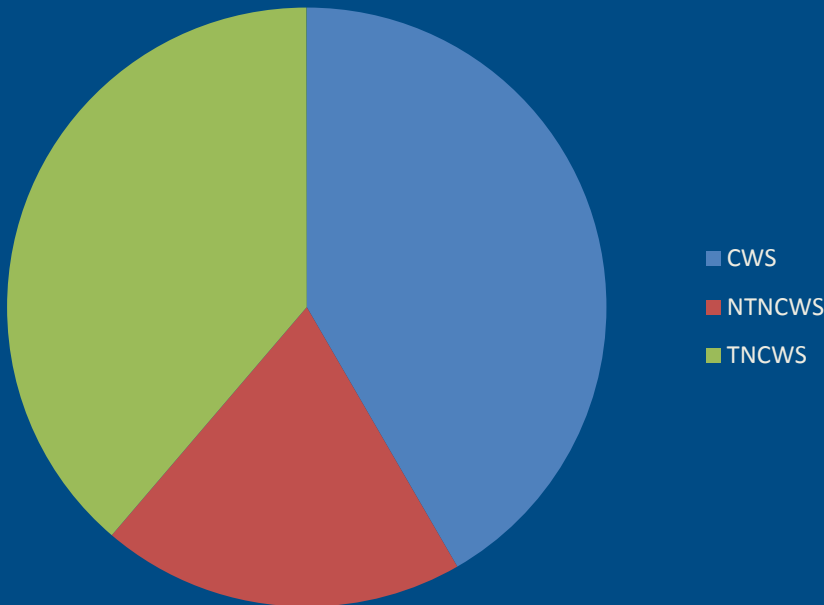
# National Statistics - Public Water Systems

Over  
161,000  
Public  
Water  
Systems  
Nationwide

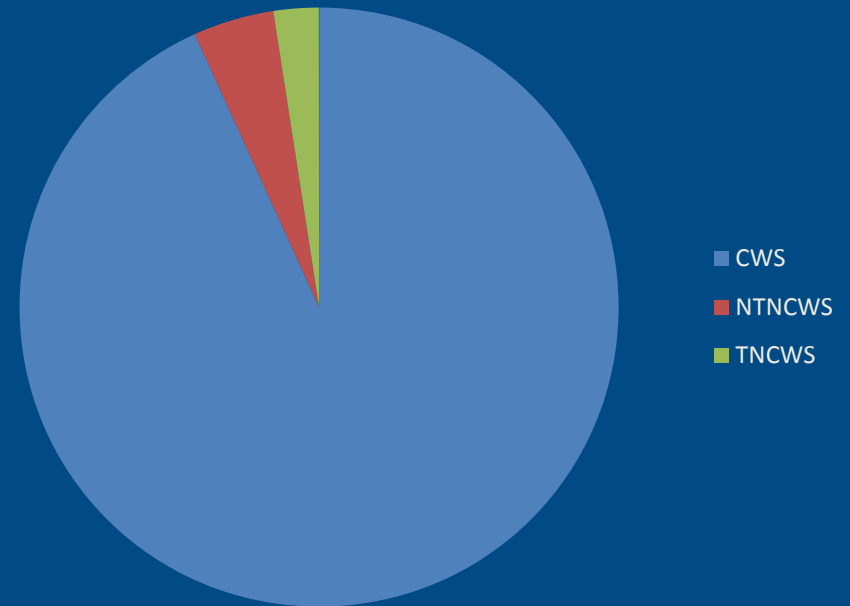


# Public Water Systems in Virginia

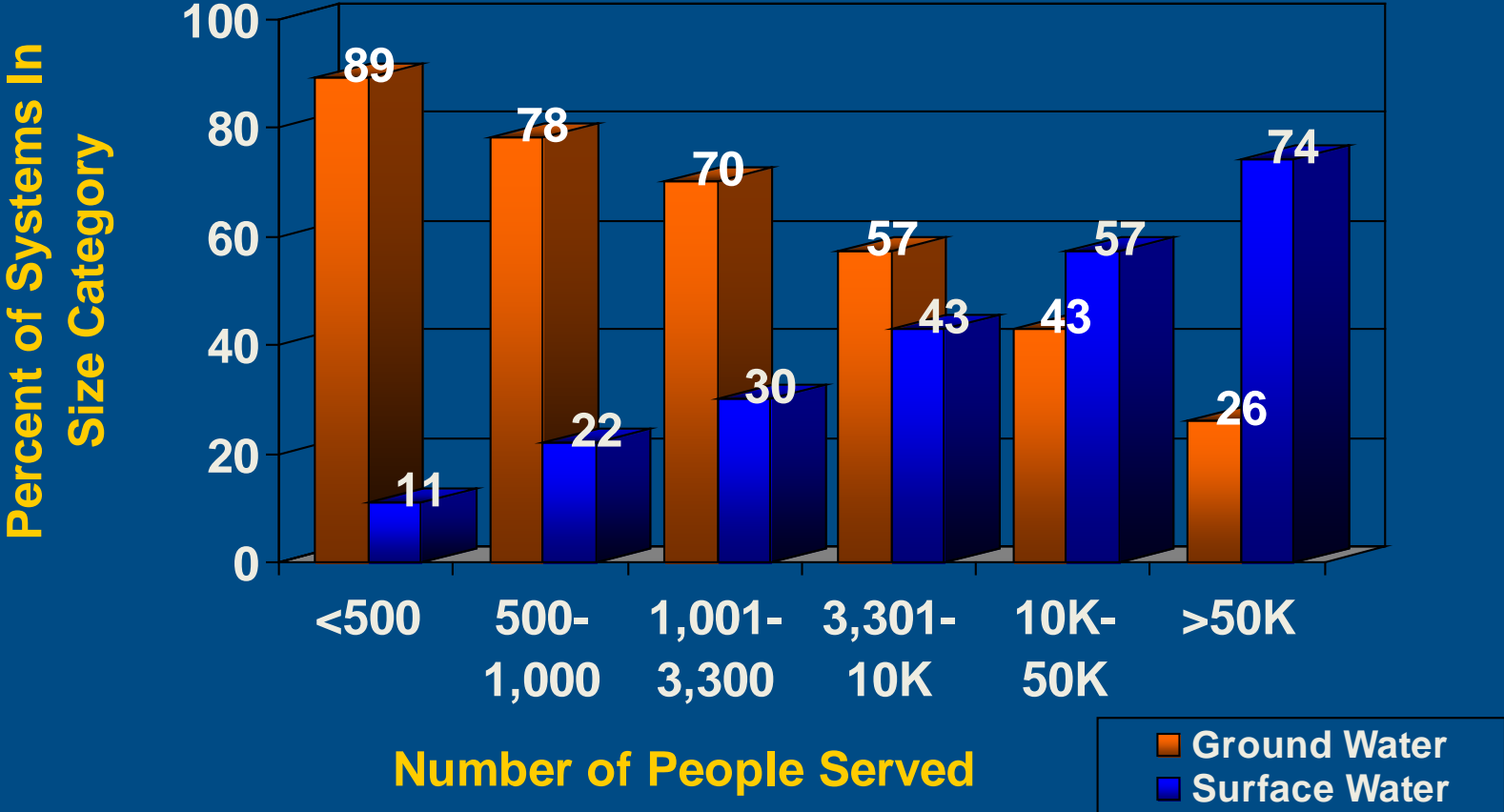
## Number of Public Water System in Virginia



## Population Served by Public Water System

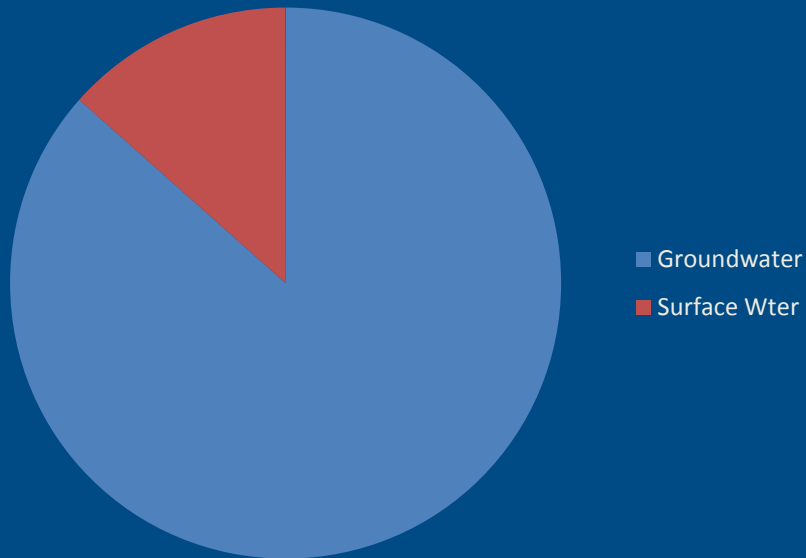


# National Statistics - CWSs by Source



# Public Water Systems in Virginia

## Number of Public Water System in Virginia



## Population Served by Public Water System

