

# Segments for MBTS Water Usage

Updated 30 Nov 2022

## NOTES:

- All water volumes in gallons
- All accounts, 2013-2021, at average gallons & \$\$
- Cut-off for “Summer Bump” set at 1.25 x Winter Usage

# WHERE TO FOCUS TO CONSERVE DRINKING WATER?

SUMMER/  
WINTER

Summer  
>2x  
Winter

Summer  
1.25-2x  
Winter

Summer  
< 1.25 x Winter

Higher Ratio of Summer to Winter Usage

More Annual Usage

<75,000 gal/yr

75-150,000 gal/yr

>150,000 gal/yr

TOTAL ANNUAL DRINKING WATER USAGE

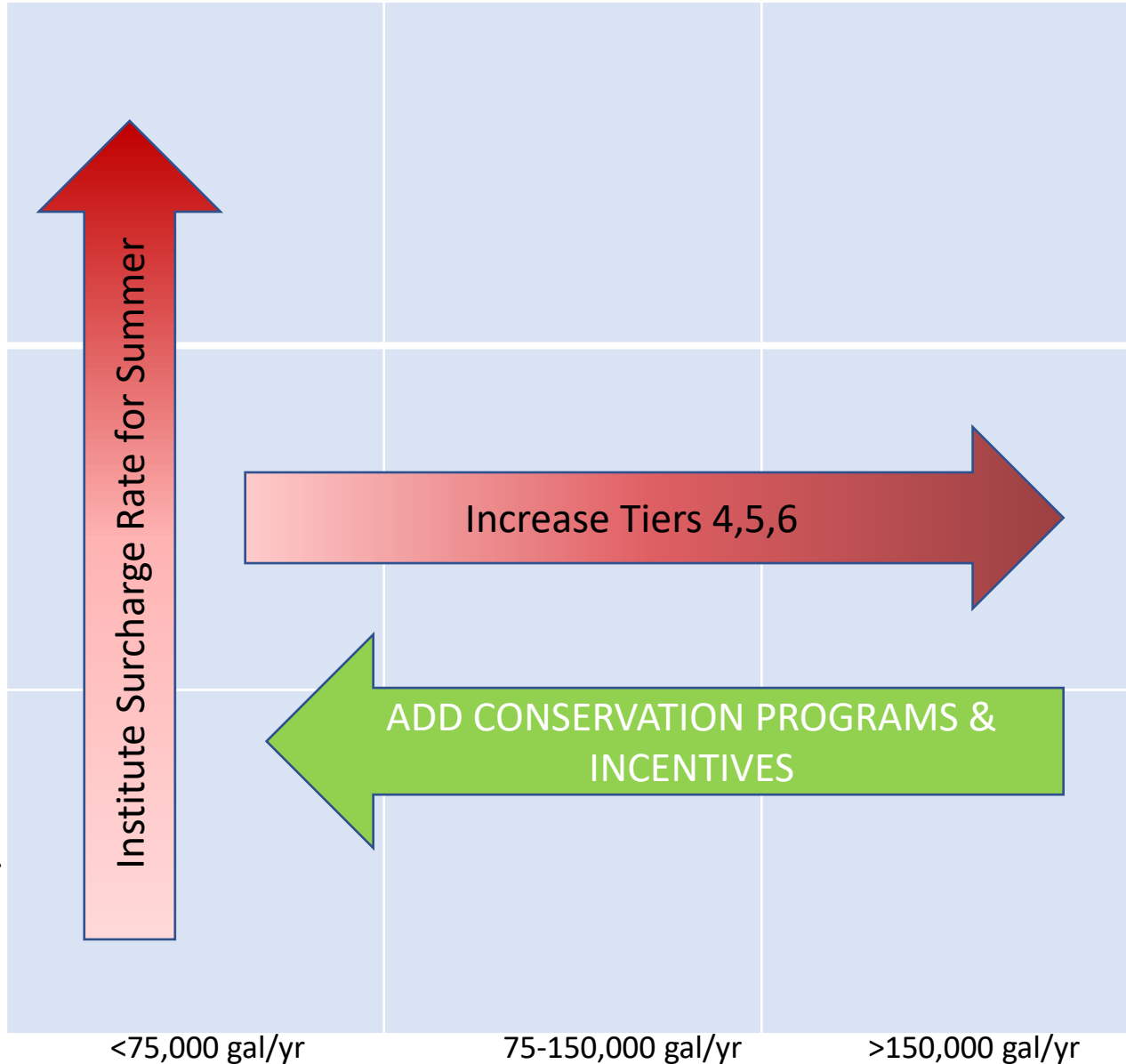
# HOW TO MOTIVATE PEOPLE TO CONSERVE DRINKING WATER?

SUMMER/  
WINTER

Summer  
>2x  
Winter

Summer  
1.25-2x  
Winter

Summer  
< 1.25 x Winter



<75,000 gal/yr

75-150,000 gal/yr

>150,000 gal/yr

TOTAL ANNUAL DRINKING WATER USAGE

## WHERE TO FOCUS TO CONSERVE DRINKING WATER?

SUMMER/  
WINTER

344 HH

169 HH

150 HH

Summer  
>2x  
Winter

409 HH

83 HH

9 HH

Summer  
1.25-2x  
Winter

719 HH

107 HH

16 HH

Summer  
< 1.25 x Winter

<75,000 gal/yr

75-150,000 gal/yr

>150,000 gal/yr

TOTAL ANNUAL DRINKING WATER USAGE

Updated  
11-30-22

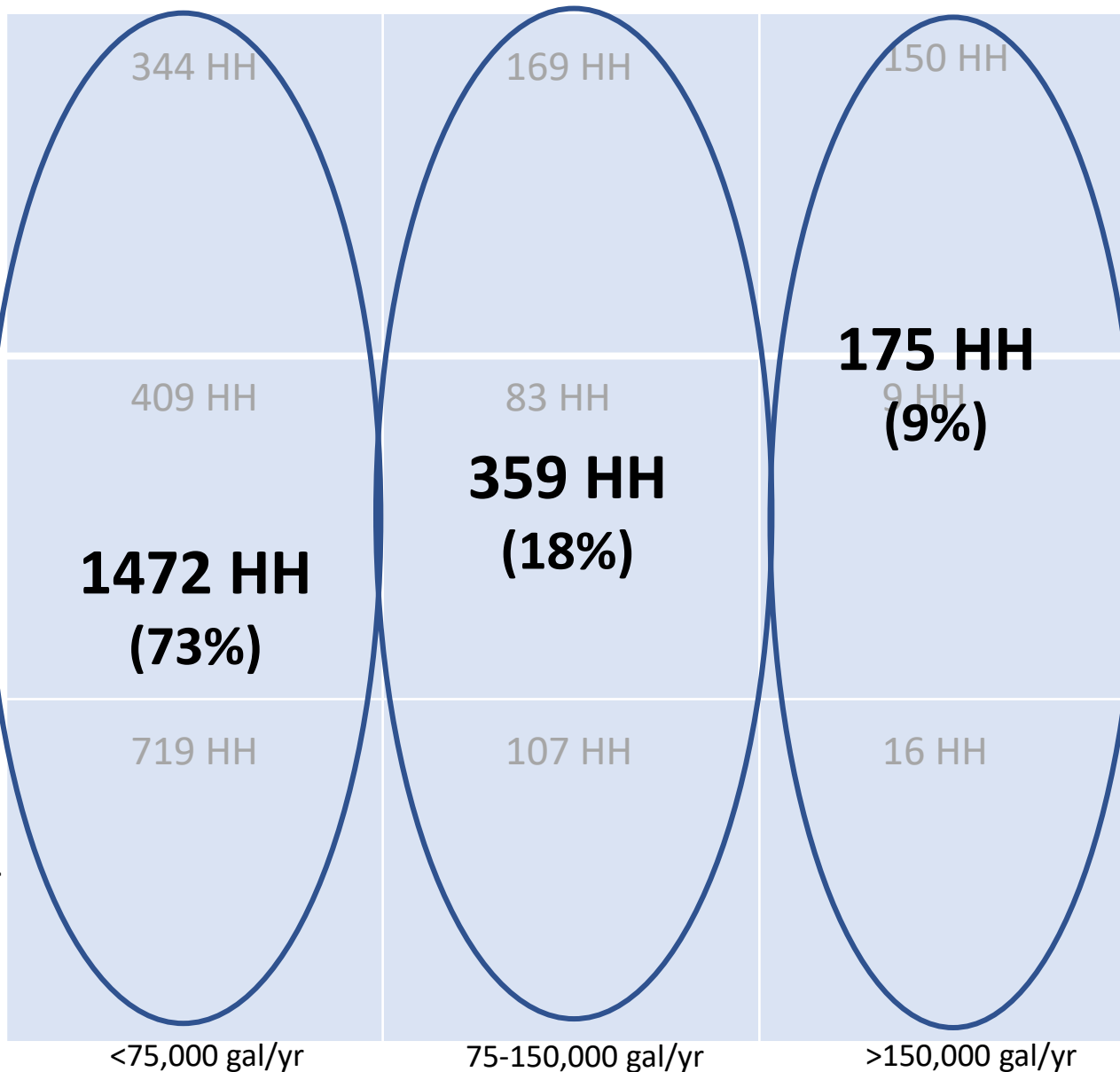
# WHERE TO FOCUS TO CONSERVE DRINKING WATER?

SUMMER/  
WINTER

Summer  
>2x  
Winter

Summer  
1.25-2x  
Winter

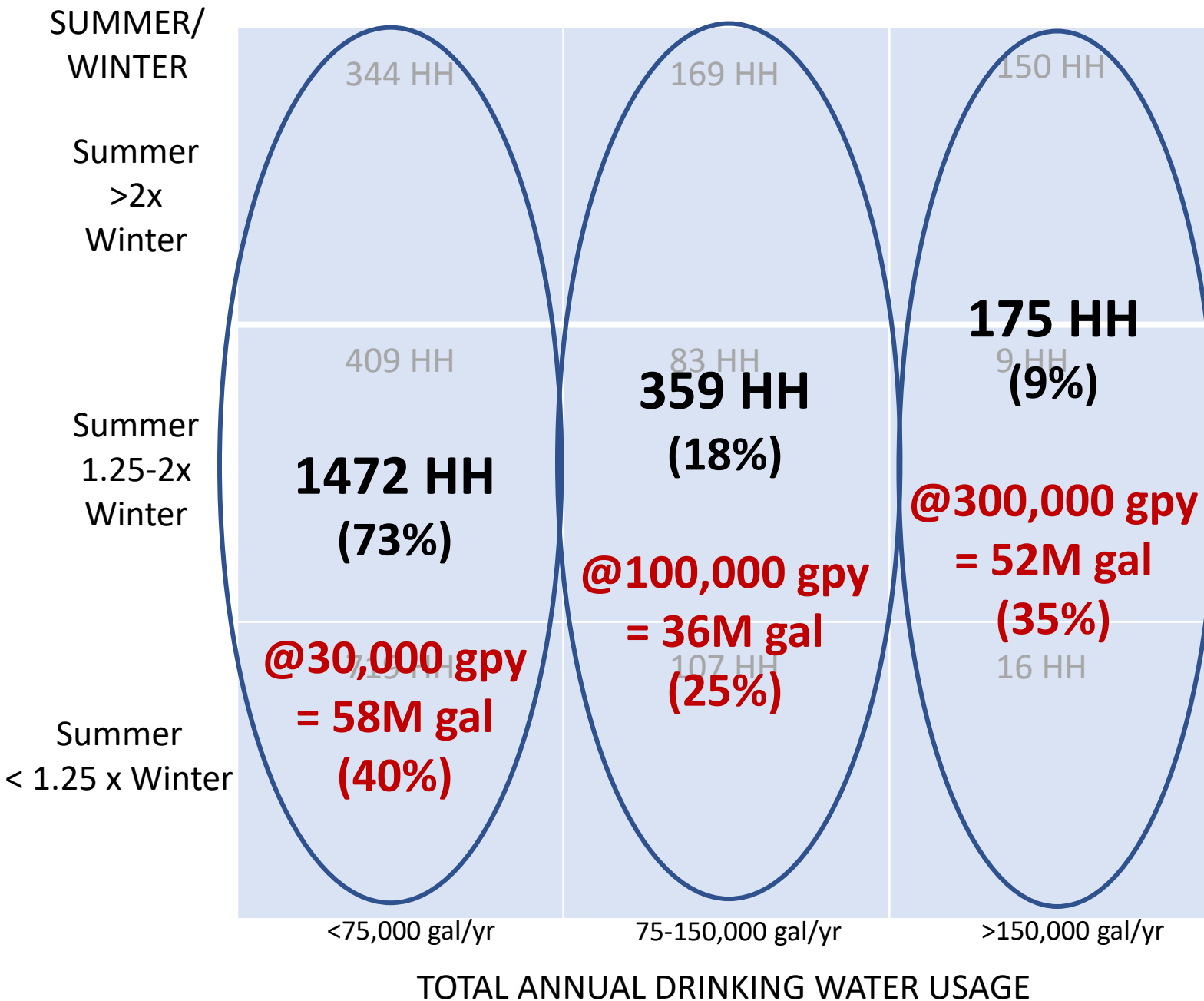
Summer  
< 1.25 x Winter



Updated  
11-30-22

TOTAL ANNUAL DRINKING WATER USAGE

# WHERE TO FOCUS TO CONSERVE DRINKING WATER?



Updated  
11-30-22

# WHERE TO FOCUS TO CONSERVE DRINKING WATER?

SUMMER/  
WINTER

Summer  
>2x  
Winter

344 HH

@\$363/yr  
=\$535,000

169 HH

@\$860/yr  
=\$310,000

150 HH

@\$2385/yr  
=\$416,000

Summer  
1.25-2x  
Winter

409 HH

**1472 HH  
(73%)**

83 HH

**359 HH  
(18%)**

**175 HH  
(9%)**

@100,000 gpy  
= 36M gal

@300,000 gpy  
= 52M gal

@30,000 gpy  
= 58M gal

107 HH

16 HH

Summer  
< 1.25 x Winter

<75,000 gal/yr

75-150,000 gal/yr

>150,000 gal/yr

TOTAL ANNUAL DRINKING WATER USAGE

Updated  
11-30-22

# WHERE TO FOCUS TO CONSERVE DRINKING WATER?

SUMMER/  
WINTER

Summer  
>2x  
Winter

**Summer  
@23,000g**

344 HH

**Summer  
@67,000g**

169 HH

**Summer  
@243,000g**

150 HH

Summer  
1.25-2x  
Winter

**1472 HH  
(73%)**

409 HH

**359 HH  
(18%)**

83 HH

**175 HH  
(9%)**

91 HH

**Winter  
@34,000g**

107 HH

**Winter  
@54,000g**

16 HH

**Winter  
@16,000g**

715 HH

Summer  
< 1.25 x Winter

<75,000 gal/yr

75-150,000 gal/yr

>150,000 gal/yr

TOTAL ANNUAL DRINKING WATER USAGE

Updated  
11-30-22



# WHERE TO FOCUS TO CONSERVE DRINKING WATER?

SUMMER/  
WINTER

Summer  
>2x  
Winter

**Summer**  
**34M g**  
**(34%)**

344 HH

**Summer**  
**24M g**  
**(24%)**

169 HH

**Summer**  
**43M g**  
**(42%)**

150 HH

Summer  
1.25-2x  
Winter

**1472 HH**  
**(73%)**

409 HH

**359 HH**  
**(18%)**

83 HH

**175 HH**  
**(9%)**

91 HH

**Winter**  
**12M g**  
**(27%)**

107 HH

**Winter**  
**10M g**  
**(21%)**

16 HH

**Winter**  
**24M g**  
**(53%)**

715 HH

Summer  
< 1.25 x Winter

<75,000 gal/yr

75-150,000 gal/yr

>150,000 gal/yr

TOTAL ANNUAL DRINKING WATER USAGE

Updated  
11-30-22

# WHERE TO FOCUS TO CONSERVE DRINKING WATER?

SUMMER/  
WINTER

Summer  
>2x  
Winter

344 HH

11

169 HH

18

150 HH

46

*(# are  
million  
gallons  
per year)*

Summer  
1.25-2x  
Winter

409 HH

18

83 HH

8

9 HH

2

Summer  
< 1.25 x Winter

719 HH

29

107 HH

10

16 HH

5

<75,000 gal/yr

75-150,000 gal/yr

>150,000 gal/yr

TOTAL ANNUAL DRINKING WATER USAGE

Updated  
11-30-22

# WHERE TO FOCUS TO CONSERVE DRINKING WATER?

SUMMER/  
WINTER

Summer  
>2x  
Winter

344 HH



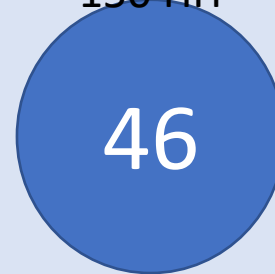
Average 32,000  
gallons per year

169 HH



Average 107,000 gpy

150 HH

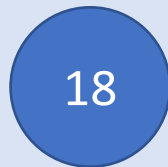


Average 305,000 gpy

*(# are  
million  
gallons  
per year)*

Summer  
1.25-2x  
Winter

409 HH



Average 43,000 gpy

83 HH



Average 95,000 gpy

9 HH



Average 233,000 gpy

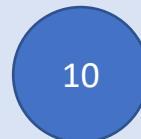
Summer  
< 1.25 x Winter

719 HH



Average 41,000 gpy

107 HH



Average 96,000 gpy

16 HH



Average 279,000 gpy

Updated  
11-30-22

<75,000 gal/yr

75-150,000 gal/yr

>150,000 gal/yr

TOTAL ANNUAL DRINKING WATER USAGE

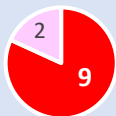
# WHERE TO FOCUS TO CONSERVE DRINKING WATER?

(# are million gallons per year)

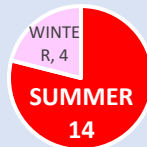
SUMMER/  
WINTER

Summer  
>2x  
Winter

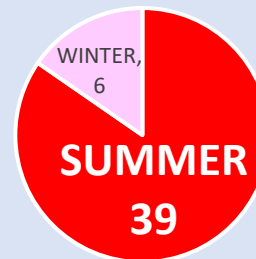
344 HH



169 HH



150 HH



663 HH

- 62 summer
- 13 winter

Summer  
1.25-2x  
Winter

409 HH



83 HH



9 HH

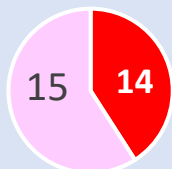


501 HH

- 17 summer
- 11 winter

Summer  
< 1.25 x Winter

719 HH



107 HH



16 HH



842 HH

- 22 summer
- 22 winter

<75,000 gal/yr

75-150,000 gal/yr

>150,000 gal/yr

TOTAL ANNUAL DRINKING WATER USAGE

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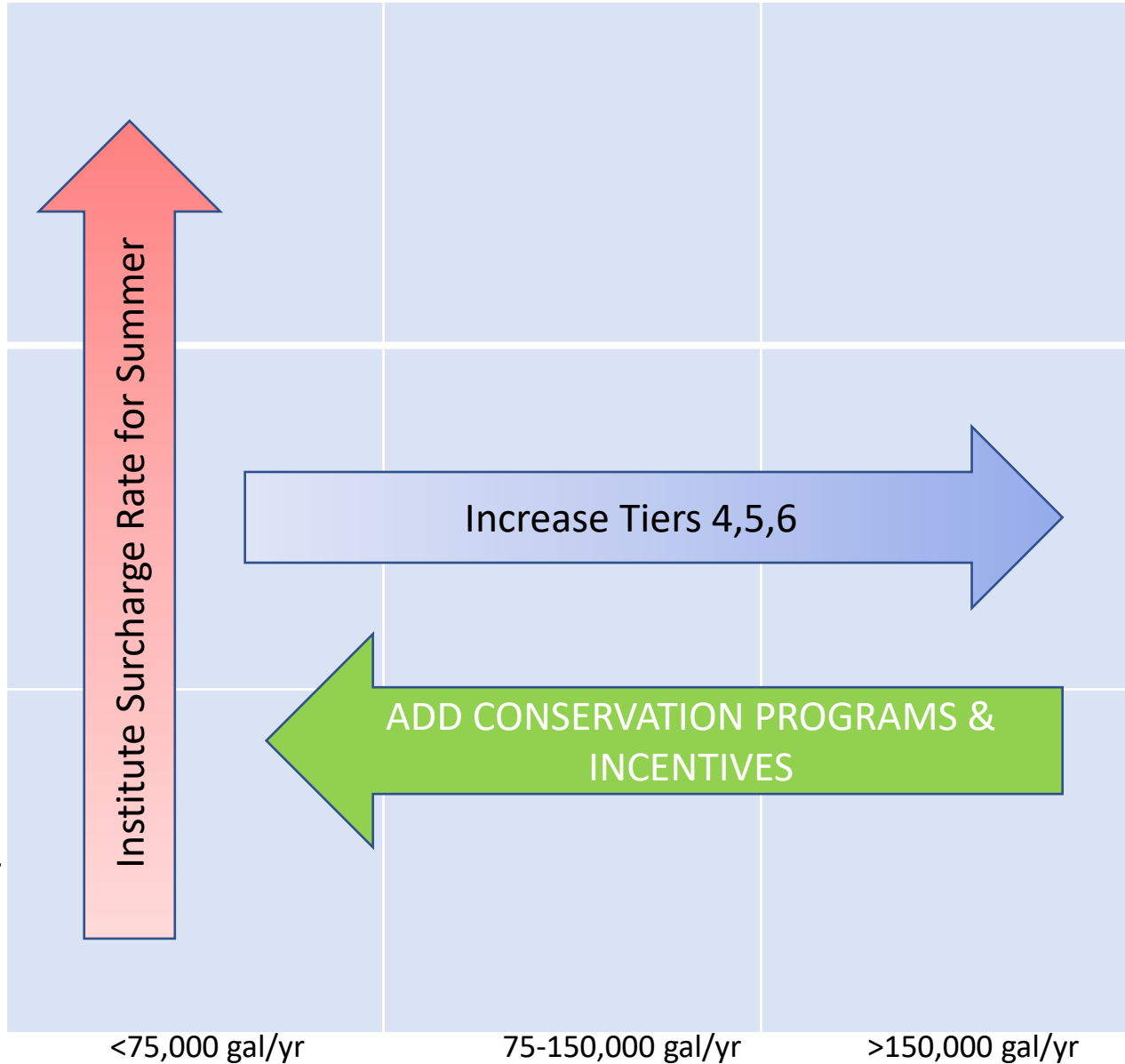
# HOW TO MOTIVATE PEOPLE TO CONSERVE DRINKING WATER?

SUMMER/  
WINTER

Summer  
>2x  
Winter

Summer  
1.25-2x  
Winter

Summer  
< 1.25 x Winter



< 75,000 gal/yr

75-150,000 gal/yr

> 150,000 gal/yr

TOTAL ANNUAL DRINKING WATER USAGE

# Conserving Drinking Water - Possibilities

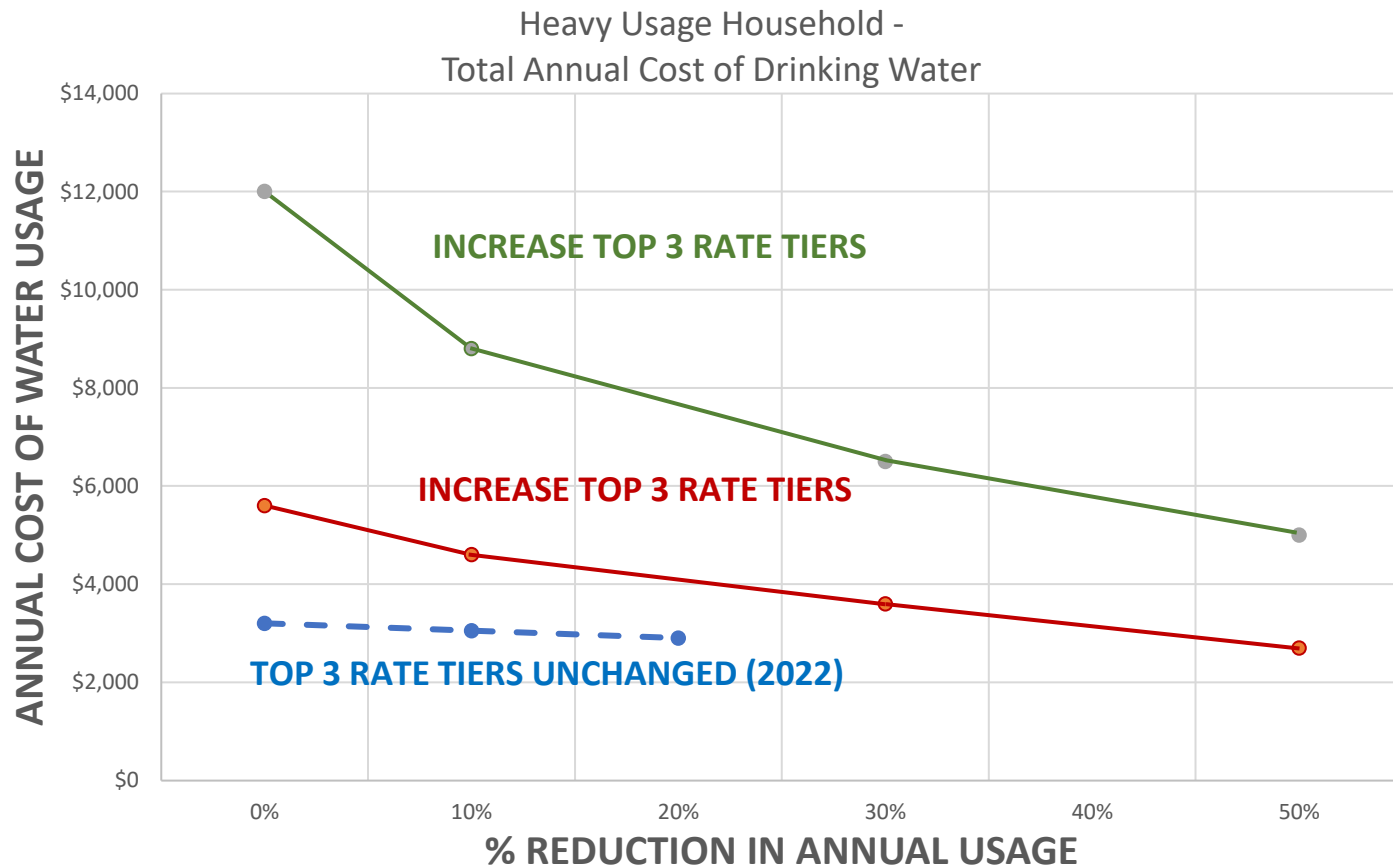
## Focus #1 on “summer bump”

- Short-term: reduce incremental summer usage by 20%, saving >10M gallons per year
- Long-term: reduce by 50%, saving >25M gpy
  - Equivalent to ~62 GPCPD

## Focus #2 on overall GPCPY

- Short-term: reduce higher-baseline HH usage (>32k gpy\*) by 10%, saving ~3M gpy
- Long-term: reduce higher-baseline HH by 50%, saving ~15M gpy
  - Equivalent to ~67 GPCPD (or ~54 GPCPD combined with Focus #1)

+ Continue ongoing focus on reducing UAW



Sources: J. Round estimates for Typical Heavy Usage HH

Conservation vs. Rate Changes -  
Impact on Revenue from Heavy Usage Households

