

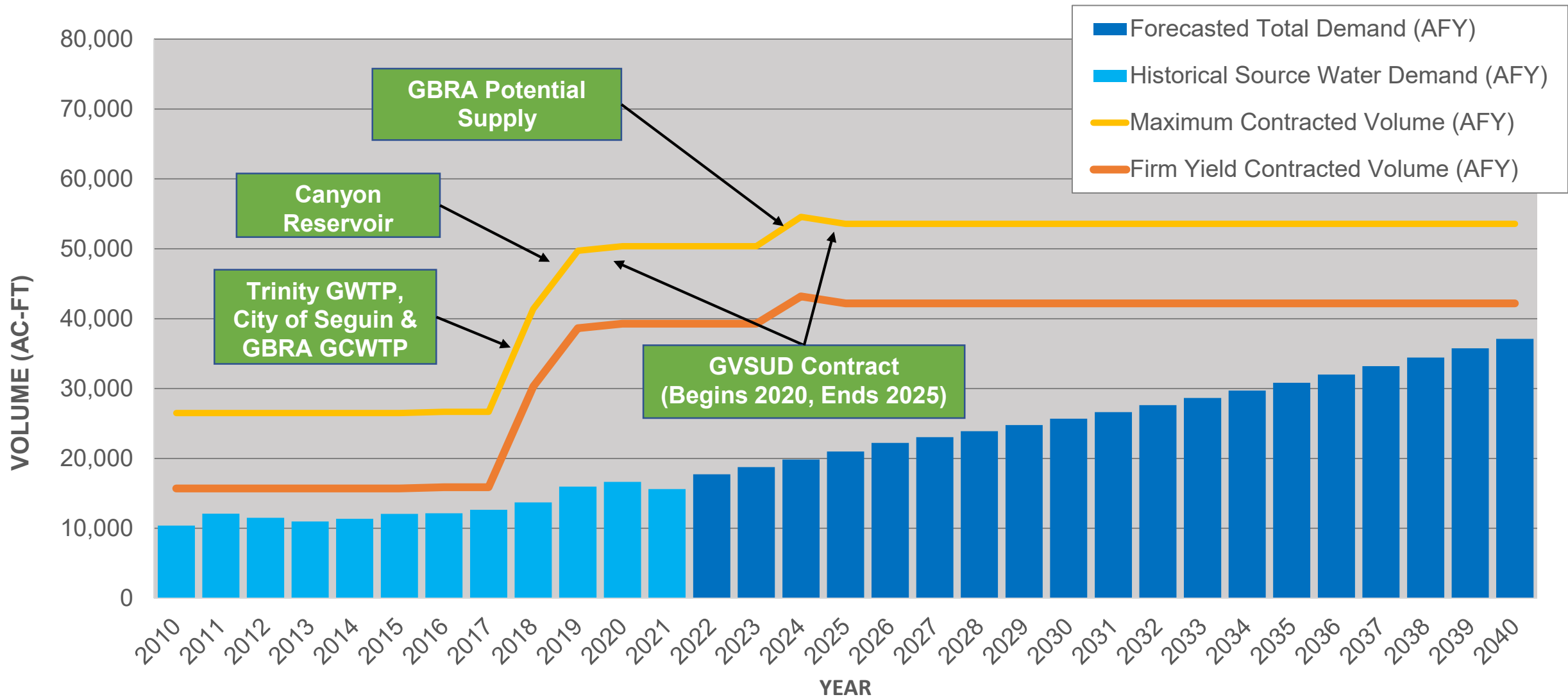


# Resilient Water Supply

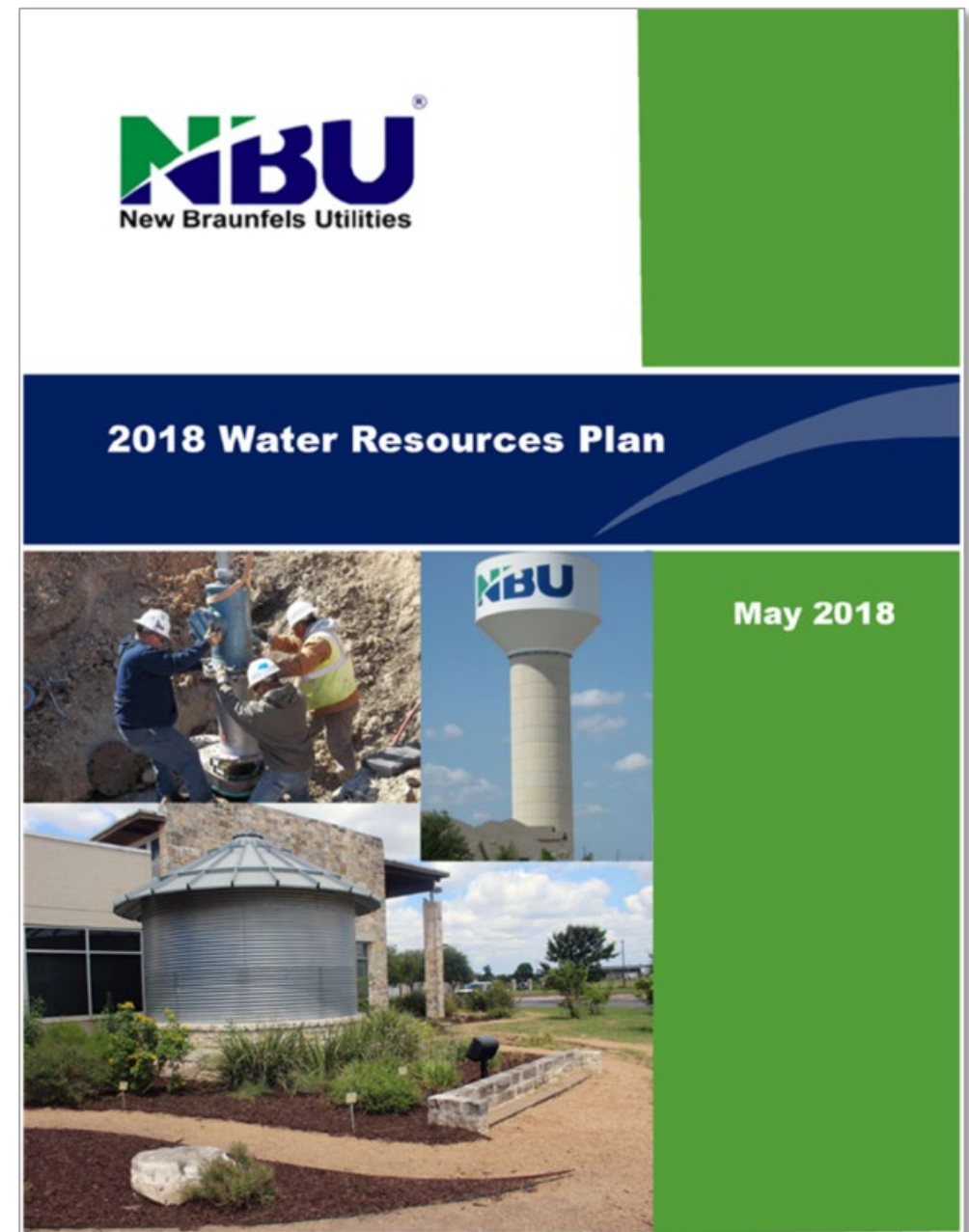
**NBU**® NEW BRAUNFELS  
UTILITIES



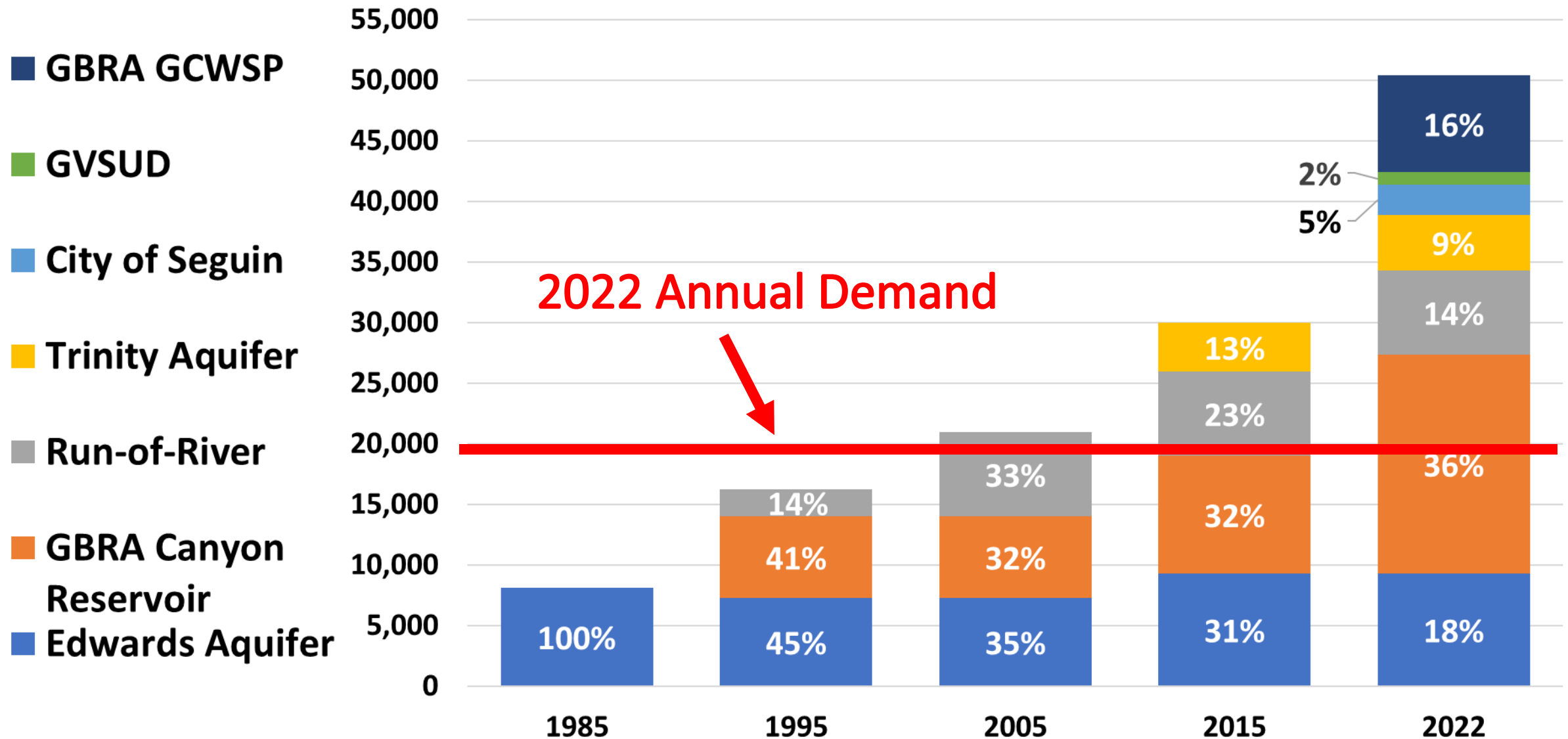
# NBU Water Supply – 2010 through 2040



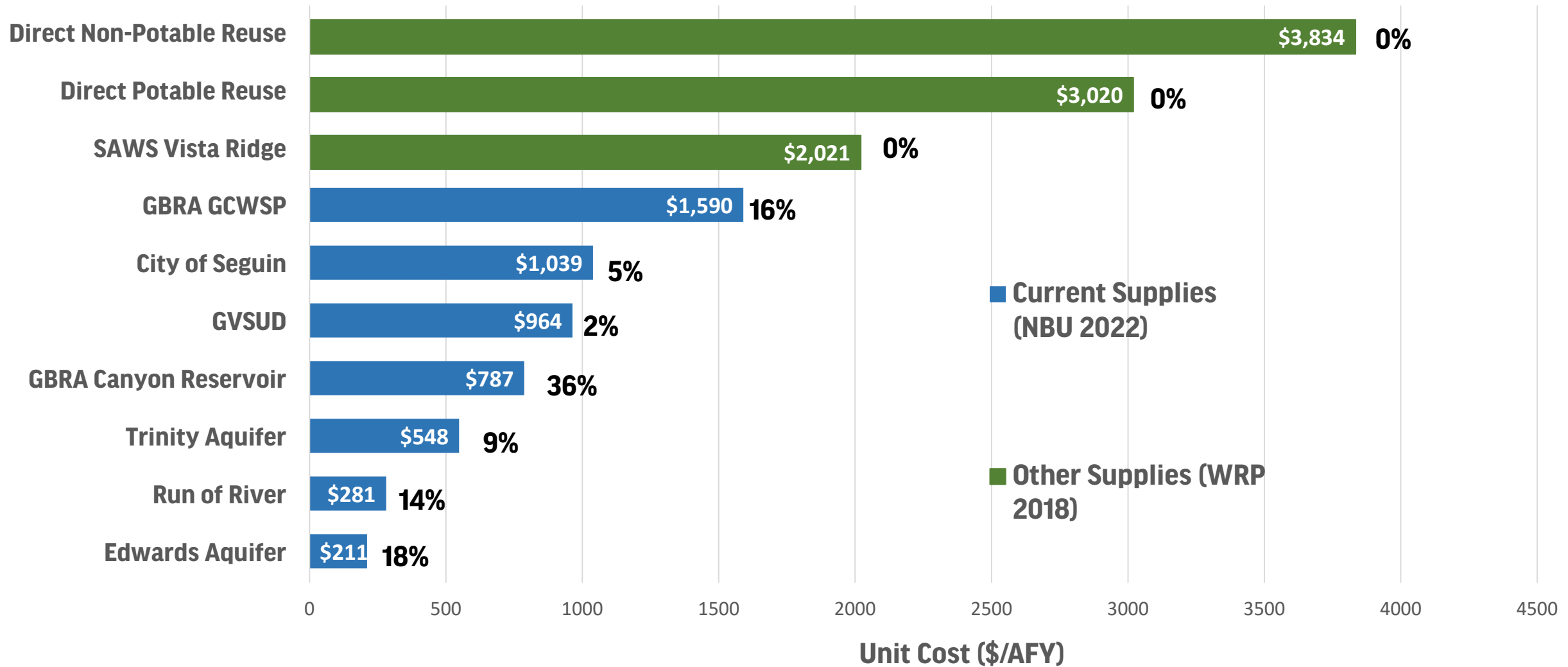
# Water Resources Plan



# Water Supply Diversification (AFY)



# Water Supply Cost Comparison





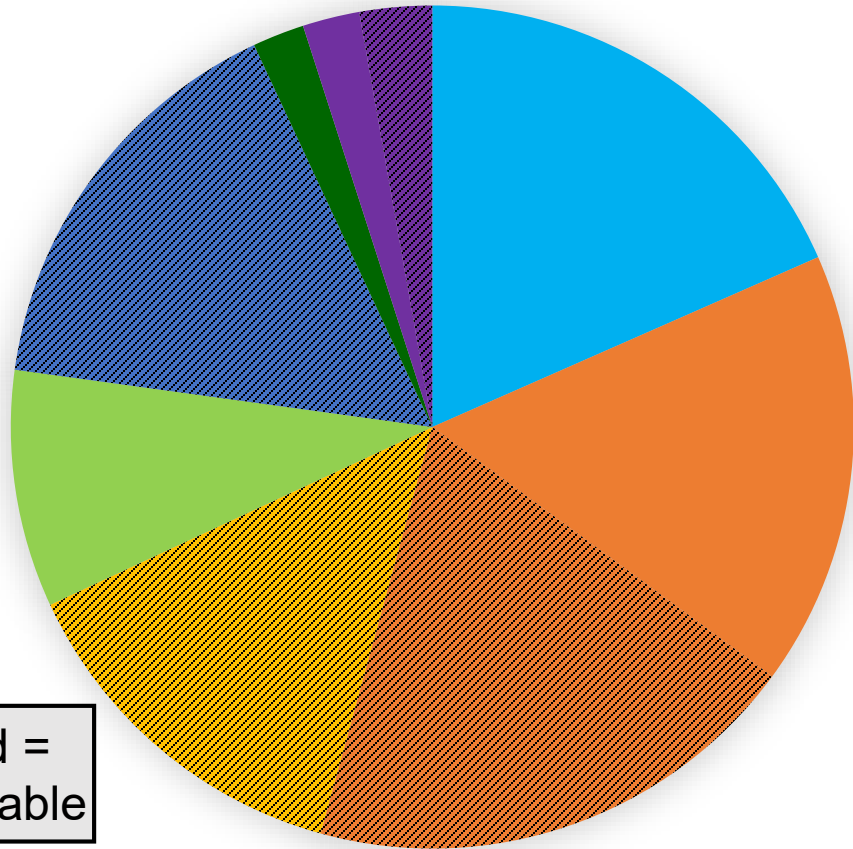
# Water Supply



# Water Infrastructure



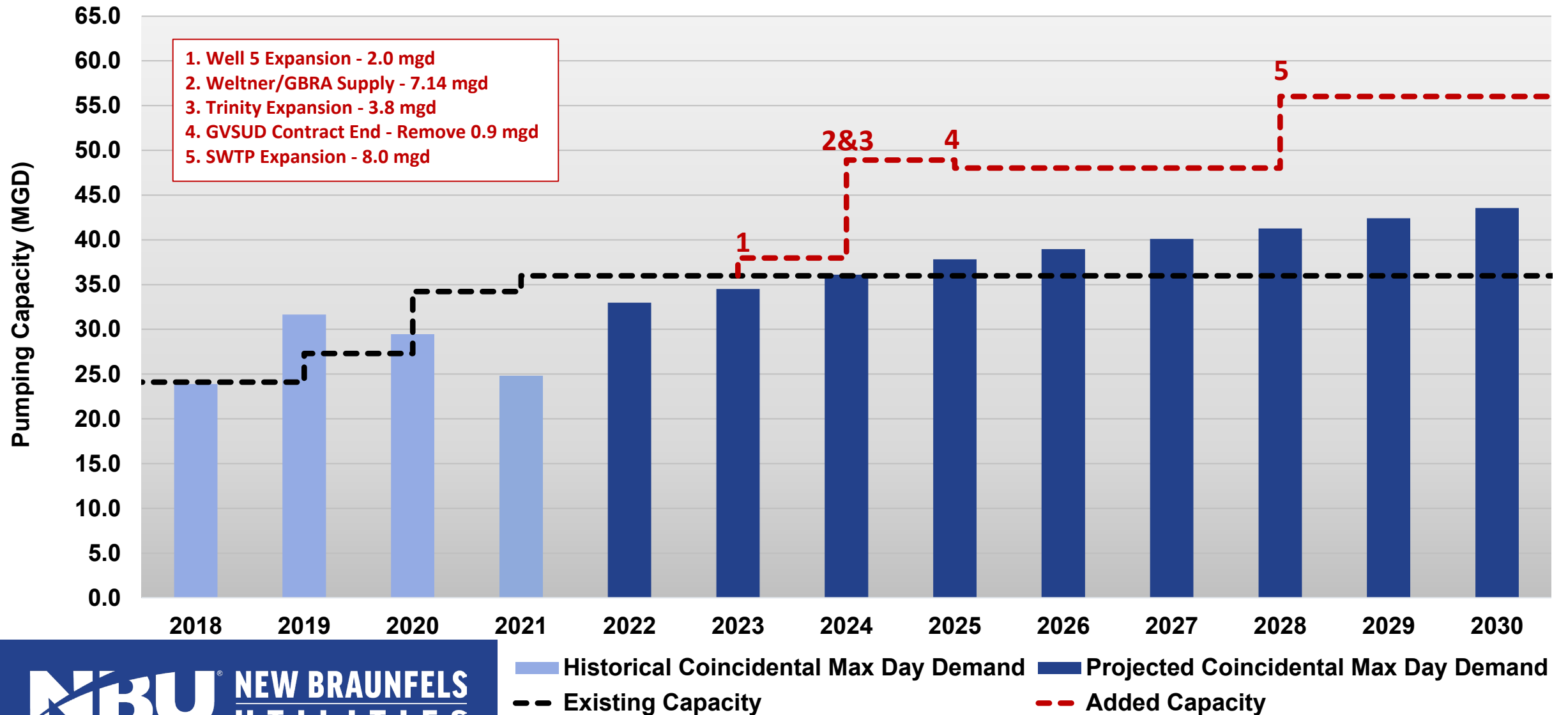
# Water Supply Portfolio



- Edwards Aquifer (\$211 per ac-ft) = 18%
- Canyon Reservoir (\$787 per ac-ft) = 36%
- Run of River (\$281 per ac-ft) = 14%
- Trinity Aquifer (\$548 per ac-ft) = 9%
- GBRA GCWSP (\$1590 per ac-ft) = 16%
- GVSUD (\$964 per ac-ft) = 2%
- City of Seguin (\$1039 per ac-ft) = 5%

Hatched =  
Undeliverable

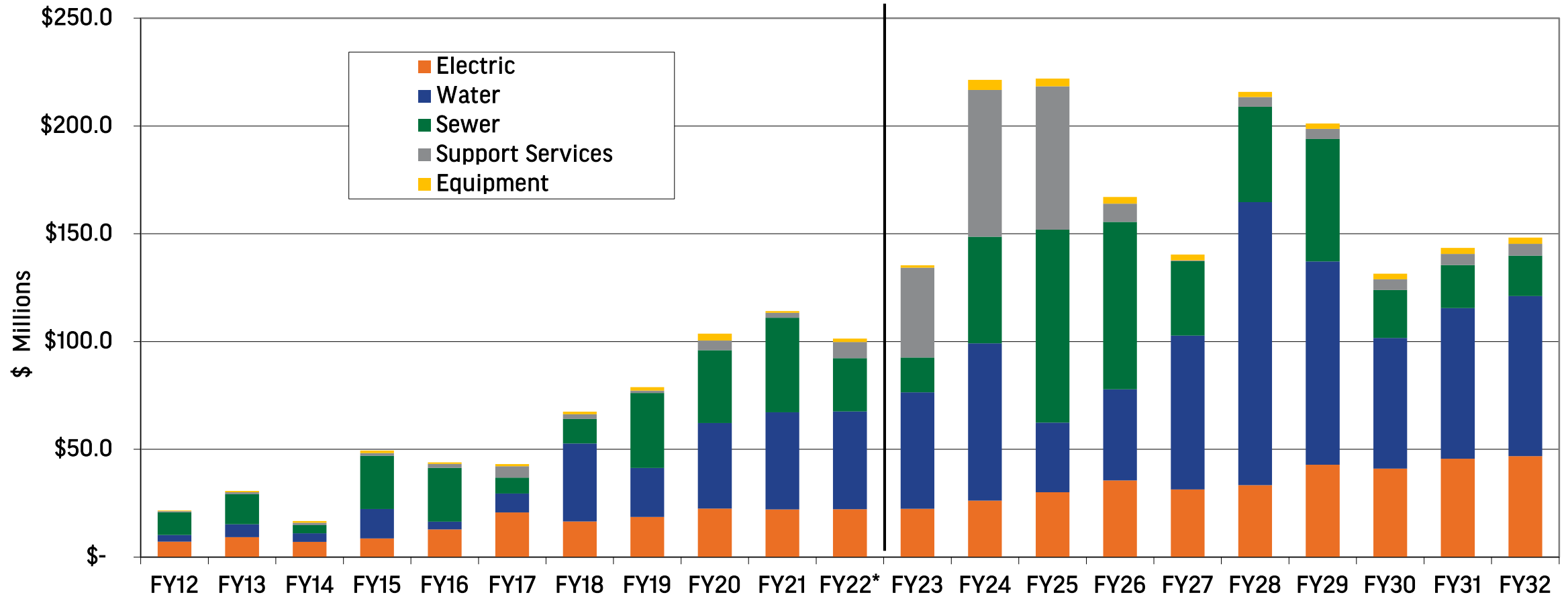
# Water Production Evaluation





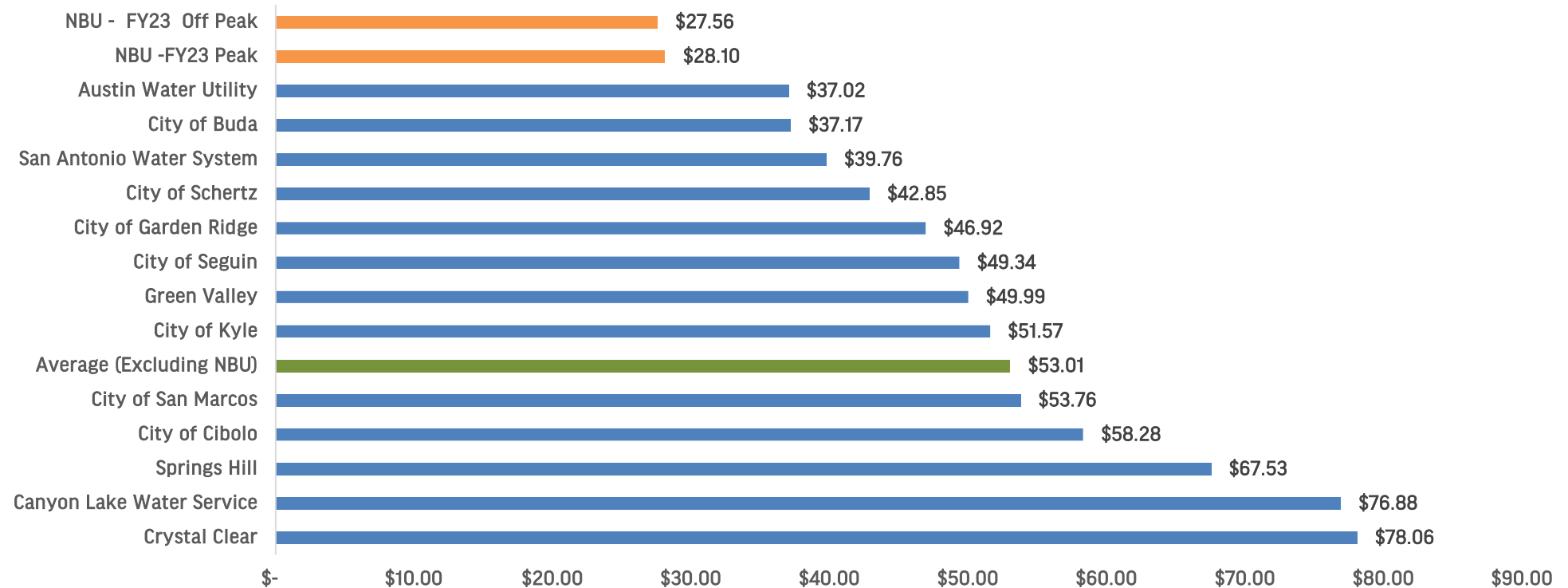
# Capital Expenditures – Historical and Projected

(FY 2012 - 2032)

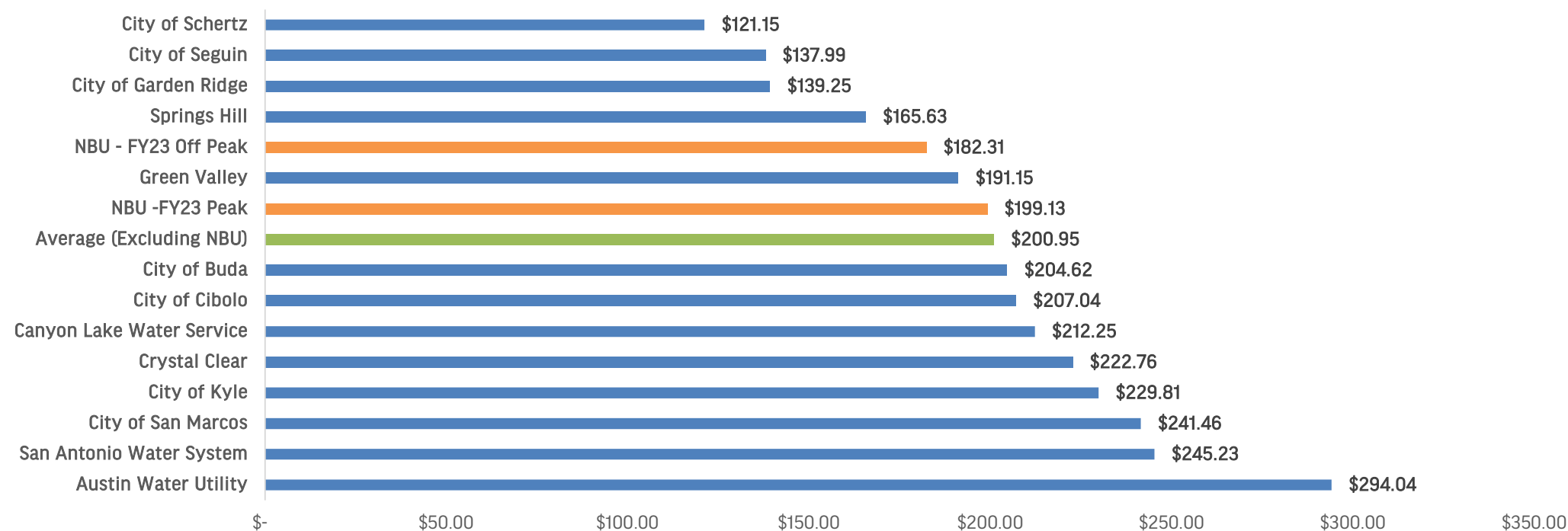


\*Forecast (actual amounts through April)

# Residential Water Usage-6,000 Gallons



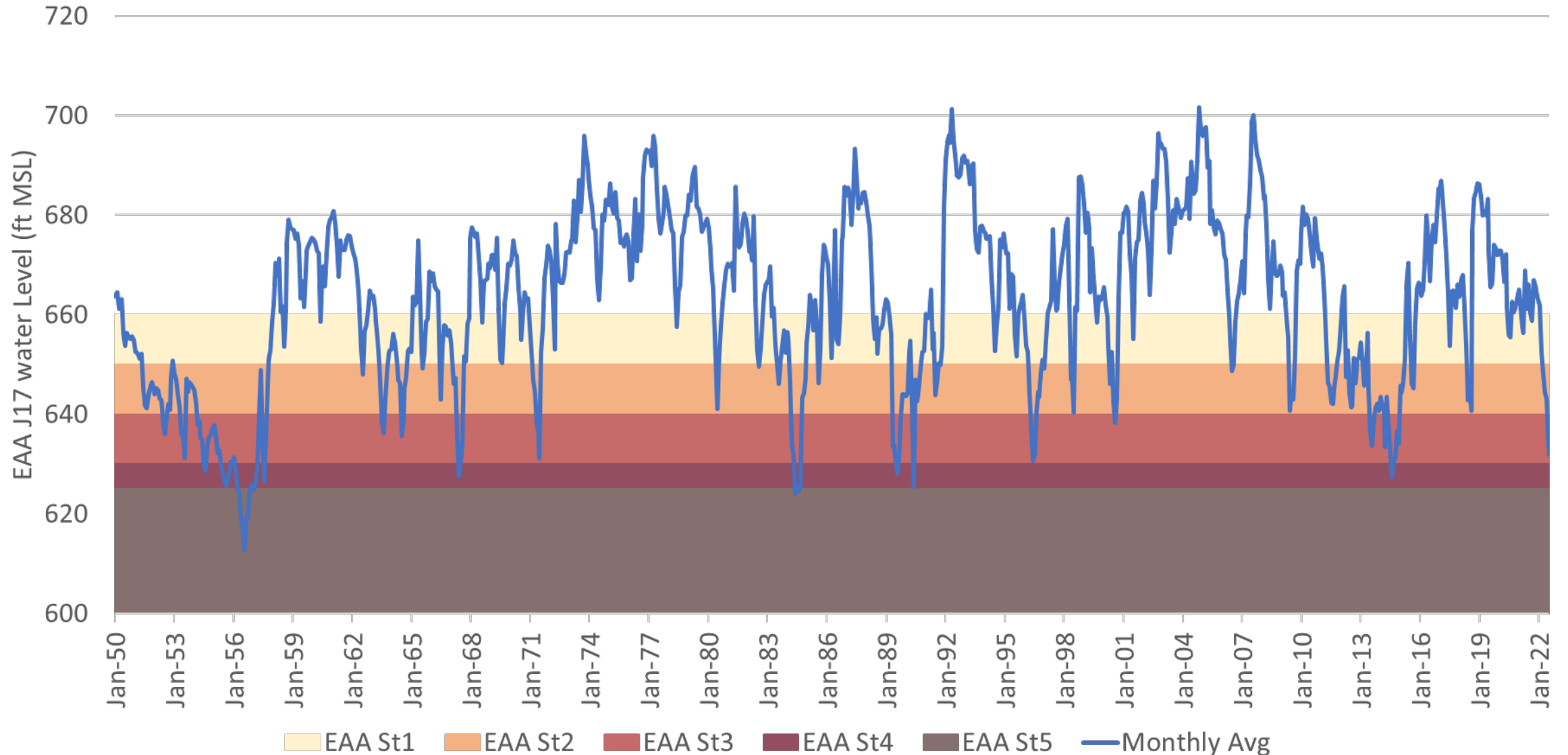
# Residential Water Usage-25,000 Gallons





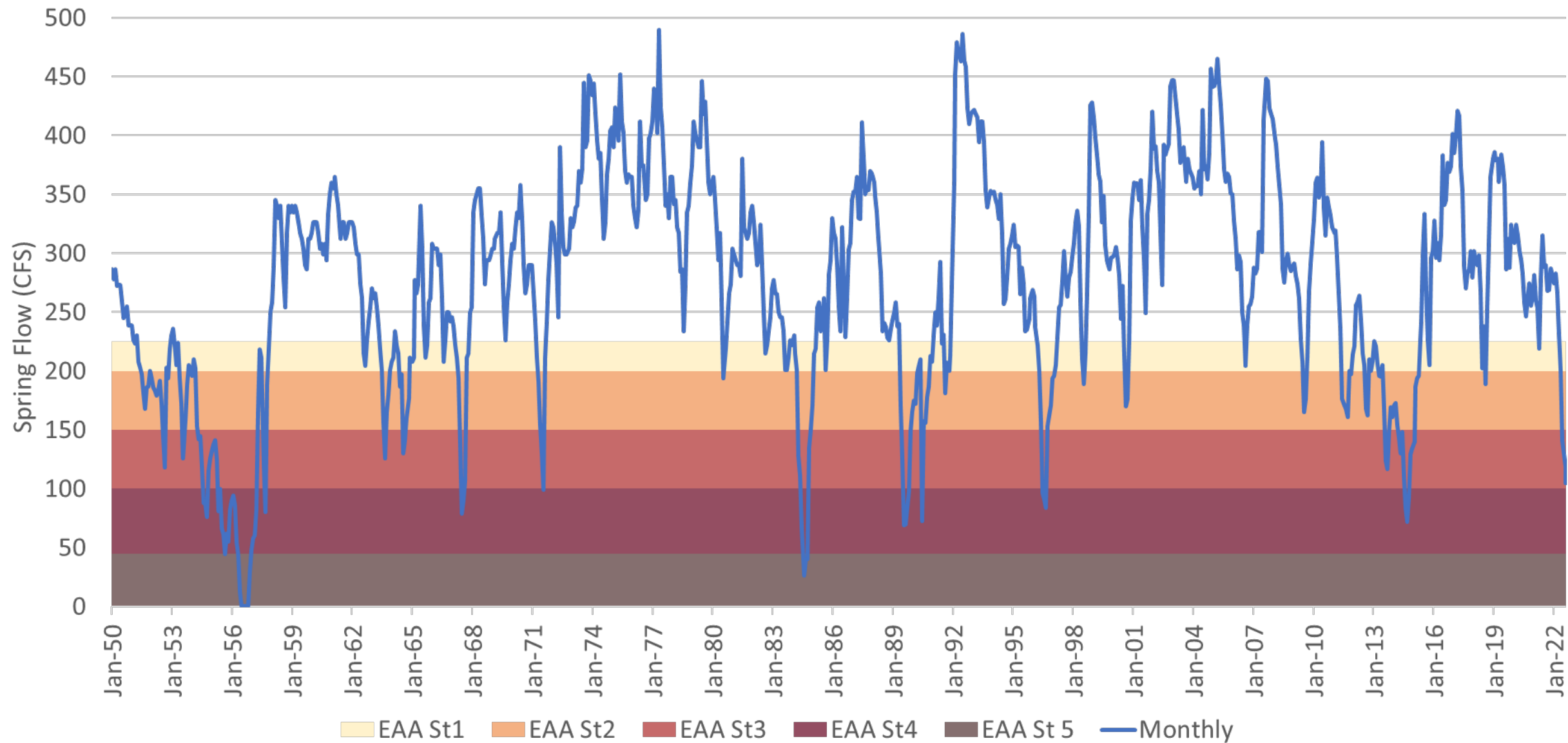
# Edwards Aquifer Level

## Monthly Average, 1950-Present



# Comal Springs

## Monthly Average, 1950-Present



# City of NB Code of Ordinances

## Sec. 130-220 Drought Management Plan

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### Sec. 130-220.1. - Landscape watering.

- It is the policy of the city to promote the efficient use of water without waste at all times on a year round basis:

### Sec. 130-221. - Basis of water use reduction measures and aquifer stage conditions

- The water use reduction measures may be based on
  - The Edwards Aquifer J-17 Water Well levels
  - The discharge level of the Comal Springs
  - Other contingency situations defined in ordinance

### Sec. 130-223. - Declaration of water use reduction stages in effect

- The mayor of the city or his or her designee, in consultation with NBU, is hereby authorized to declare that water use reduction measures are in effect



# Watering Guidelines – Non-Drought

- ✓ Water with sprinkler or irrigation allowed two days per week based on last digit of the address
- ✓ Must occur before 10:00 a.m. and after 8:00 p.m.
- ✓ Watering with a hand-held hose, bucket, drip irrigation system, or a soaker hose that does not spray water in the air is allowed on any time on any day

## NON-DROUGHT

Watering with a sprinkler or irrigation system is allowed **two days per week** based on the last digit of the address. Must occur BEFORE 10:00 a.m. and AFTER 8:00 p.m.

LAST DIGIT	WATERING DAYS
0, 2, 4, 6, or 8	Monday/Thursday
1, 3, 5, 7, or 9	Tuesday/Friday

Watering with a hand-held hose, bucket, drip irrigation system, or a soaker hose that does not spray water in the air is allowed any time on any day.

# Watering Guidelines – Stage 1

- ✓ Water with sprinkler or irrigation allowed one day per week based on last digit of the address
- ✓ Must occur before 10:00 a.m. and after 8:00 p.m.
- ✓ Watering with a hand-held hose, bucket, drip irrigation system, or a soaker hose that does not spray water in the air is allowed on any time on any day

## STAGE 1

Watering with a sprinkler or irrigation system is allowed **one day per week** based on the last digit of the address. Must occur BEFORE 10:00 a.m. and AFTER 8:00 p.m.

LAST DIGIT	WATERING DAY
0 or 1	Monday
2 or 3	Tuesday
4 or 5	Wednesday
6 or 7	Thursday
8 or 9	Friday

Watering with a hand-held hose, bucket, drip irrigation system, or a soaker hose that does not spray water in the air is allowed any time on any day.

# Watering Guidelines – Stage 2

- ✓ Water with sprinkler or irrigation allowed one day per week based on last digit of the address
- ✓ Must occur before 10:00 a.m. and after 8:00 p.m.
- ✓ Watering with a hand-held hose, bucket, drip irrigation system, or a soaker hose that does not spray water in the air is allowed on any day BEFORE 10:00 a.m. and AFTER 8:00 p.m.

## STAGE 2

Watering with a sprinkler or irrigation system is allowed **one day per week** based on the last digit of the address. Must occur BEFORE 10:00 a.m. and AFTER 8:00 p.m.

LAST DIGIT	WATERING DAY
0 or 1	Monday
2 or 3	Tuesday
4 or 5	Wednesday
6 or 7	Thursday
8 or 9	Friday

Watering with a hand-held hose, bucket, drip irrigation system, or a soaker hose that does not spray water in the air is allowed on any day BEFORE 10:00 a.m. and AFTER 8:00 p.m.



# Watering Guidelines – Stage 3

- ✓ Water with sprinkler or irrigation allowed one day per week every other week on assigned day
- ✓ Must occur before 10:00 a.m. and after 8:00 p.m.
- ✓ Watering with a hand-held hose, bucket, drip irrigation system, or a soaker hose that does not spray water in the air is allowed on any day BEFORE 10:00 a.m. and AFTER 8:00 p.m.

## STAGE 3

Watering with a sprinkler or irrigation system is allowed **one day per week every other week**, on assigned day, beginning on the second Monday after Stage 3 has been declared. Must occur BEFORE 10:00 a.m. and AFTER 8:00 p.m.

LAST DIGIT	WATERING DAY
0 or 1	Monday
2 or 3	Tuesday
4 or 5	Wednesday
6 or 7	Thursday
8 or 9	Friday

Watering with a hand-held hose, bucket, drip irrigation system, or a soaker hose that does not spray water in the air is allowed on any day BEFORE 10:00 a.m. and AFTER 8:00 p.m.

# Stage 4 Drought Restrictions

**STAGE 4** All watering activities will be determined by New Braunfels Utilities.

**Sec. 130-226. - Implementation of additional water use reduction measures, ("aquifer risk").**

- Implementation of additional water use reduction measures, need not be based on the trigger levels but may be based on consideration of aquifer water quality or on other aquifer conditions
- The mayor of the city, in consultation with NBU, shall declare additional measures
- The mayor may also impose additional restrictions for all water uses.

**Thank you!**

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