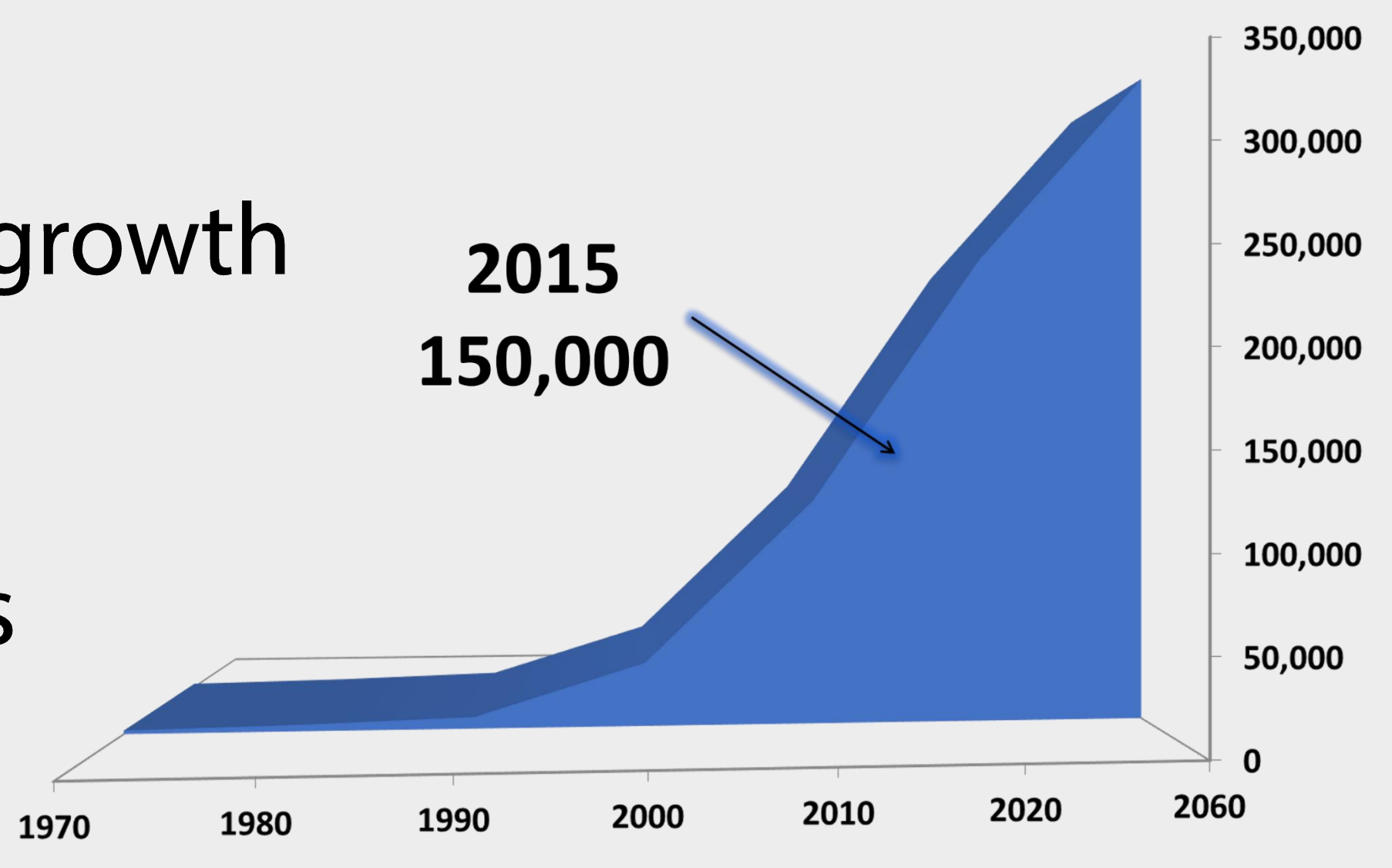




A Decade of Reduction: Water Management for a Growing City

The Challenge:

- ❖ Frisco, TX experiencing rapid growth in drought-prone region
- ❖ 70 percent of water used for residential irrigation purposes



The Goal:

Engineer sustainability into growth plan:

- ❖ Combine science-based educational programs with innovative infrastructure maximizing conservation



The Science:

- ❖ Campbell Scientific weather station & four automatic rain gauges installed in 2008
- ❖ Texas A&M Methodology approximates net evapotranspiration (ET)



The Education:

- ❖ Weather station ET data used as platform for Frisco's education programs
- ❖ Weekly watering recommendations distributed to residents via weekly online newsletter (>14,000 subscribers), weekly video, & 24-hour phone line



The Infrastructure:

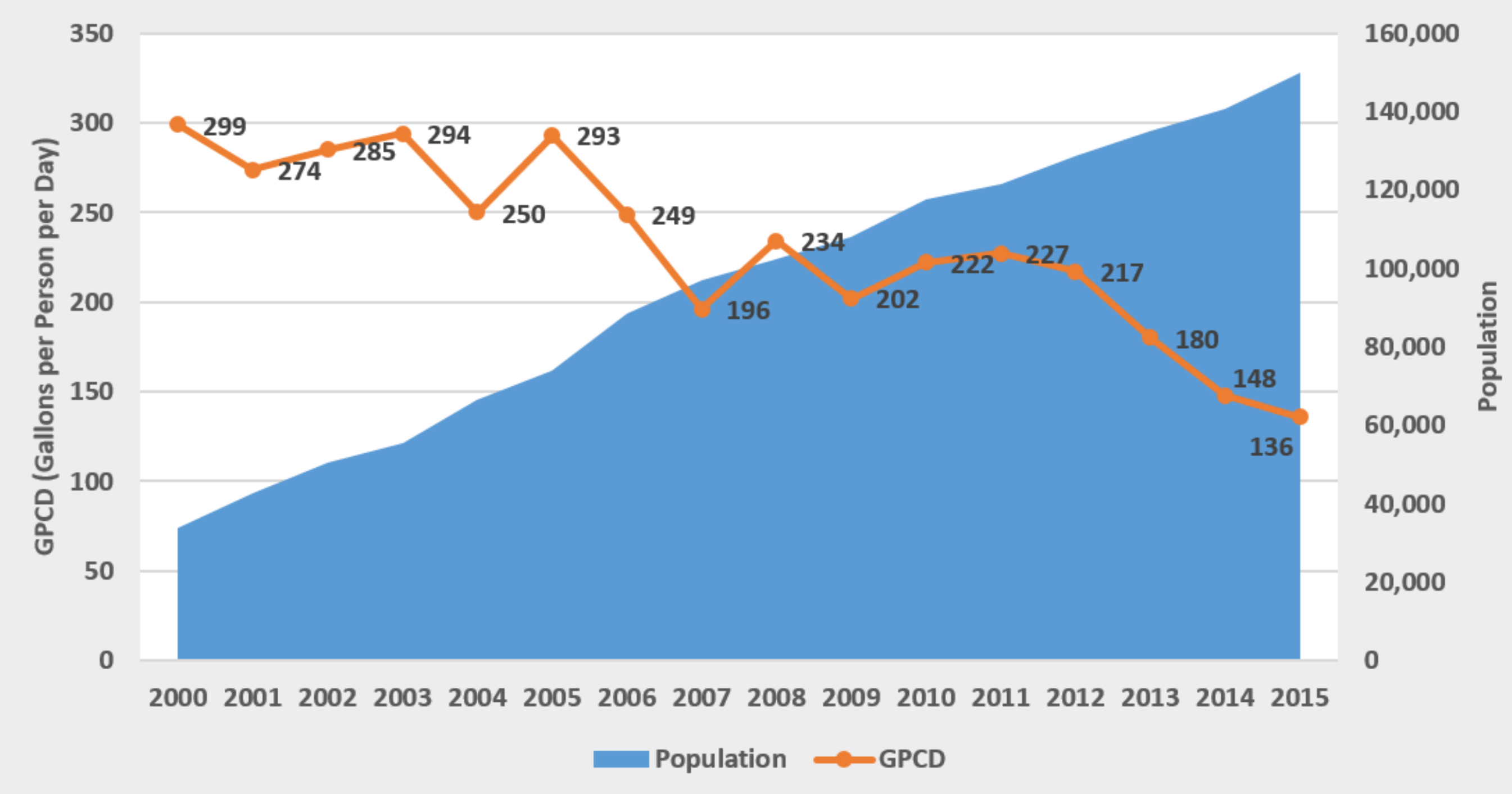
- ❖ Reclaimed water distribution system facility constructed at Stewart Creek Wastewater Treatment Plant in 2006
- ❖ Type I treated wastewater effluent returned to Frisco for non-potable reuse
 - ❖ Customers include golf courses, athletic fields & schools
- ❖ Currently 25,785 feet of pipeline, 28,145 feet under construction
- ❖ 10.2 total miles of total reuse pipeline infrastructure



Now:

- ❖ Water use has dramatically decreased despite ever-increasing population growth

Historical Annual GPCD versus Population Growth



- ❖ Residential per capita water use in 2000 was 299 (in gallons per person per day). As of July, the 2015 average was 136 GPCD, below the current state goal issued by the Texas Water Development Board of 140 GPCD.



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