HOUSTON WATER & WEATHER

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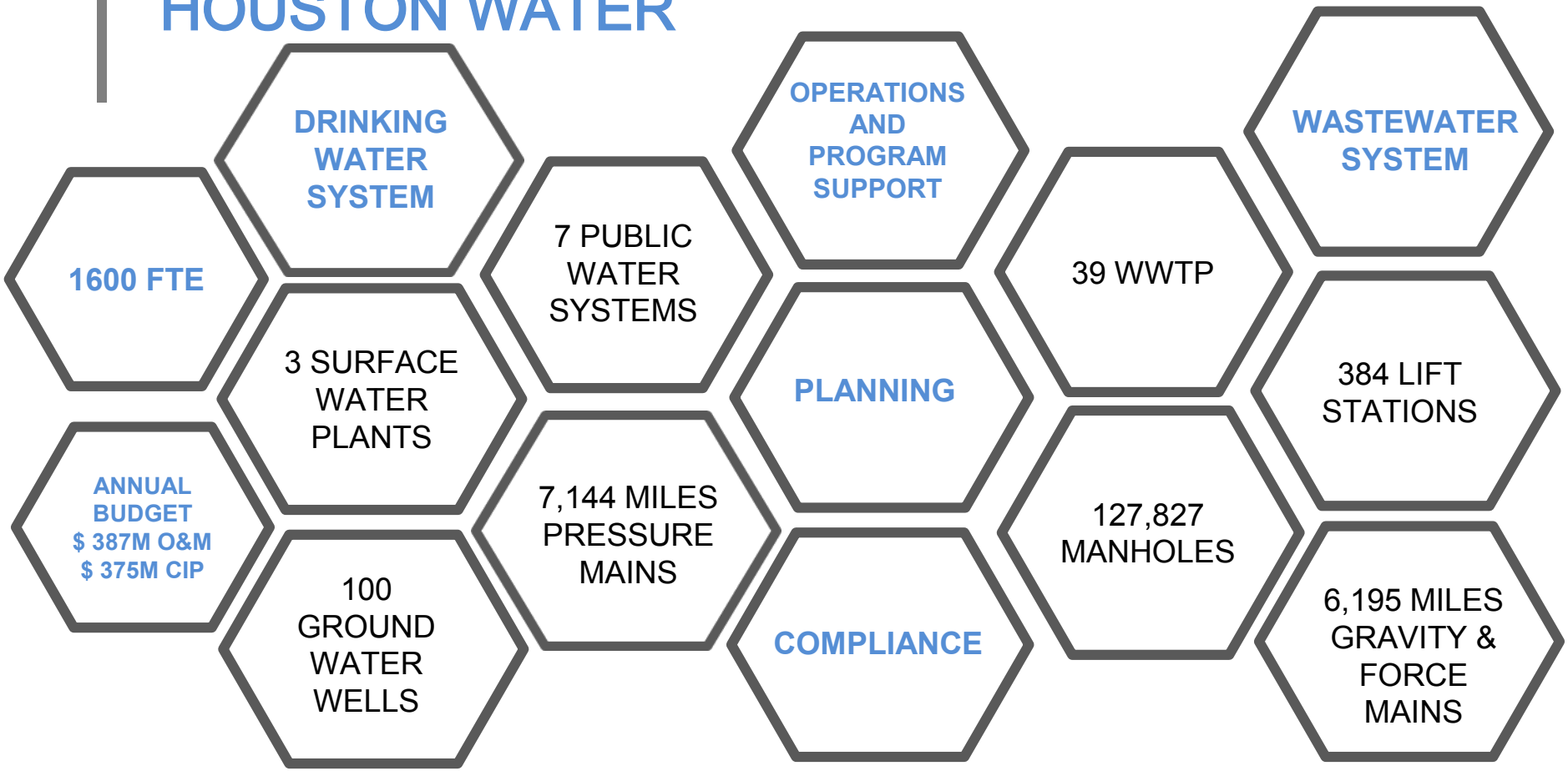
The land area of all these cities COMBINED would fit within our land area.

Houston Area:
650 Sq. Miles

HOUSTON WATER

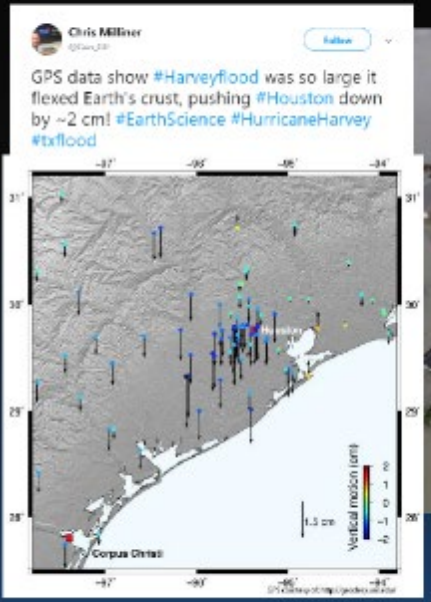


WEATHER EVENTS

- 2008 HURRICANE IKE – CAT 2, 110 MPH MAX SUSTAINED WINDS
- 2011 DROUGHT OF RECORD ~45 WEEKS, 95% OF TX IN DROUGHT
- 2015 MEMORIAL DAY FLOOD, 12” RAIN IN 10 HOURS
- 2016 TAX DAY FLOOD, 17” RAIN IN 14 HOURS
- 2016 MEMORIAL DAY FLOOD, BEGAN BUILDING AN ARK
- 2017 HURRICANE HARVEY, 36-48” RAIN IN HOUSTON METRO

2 cm is estimate how much Houston sank into the Earth under weight of water from Harvey

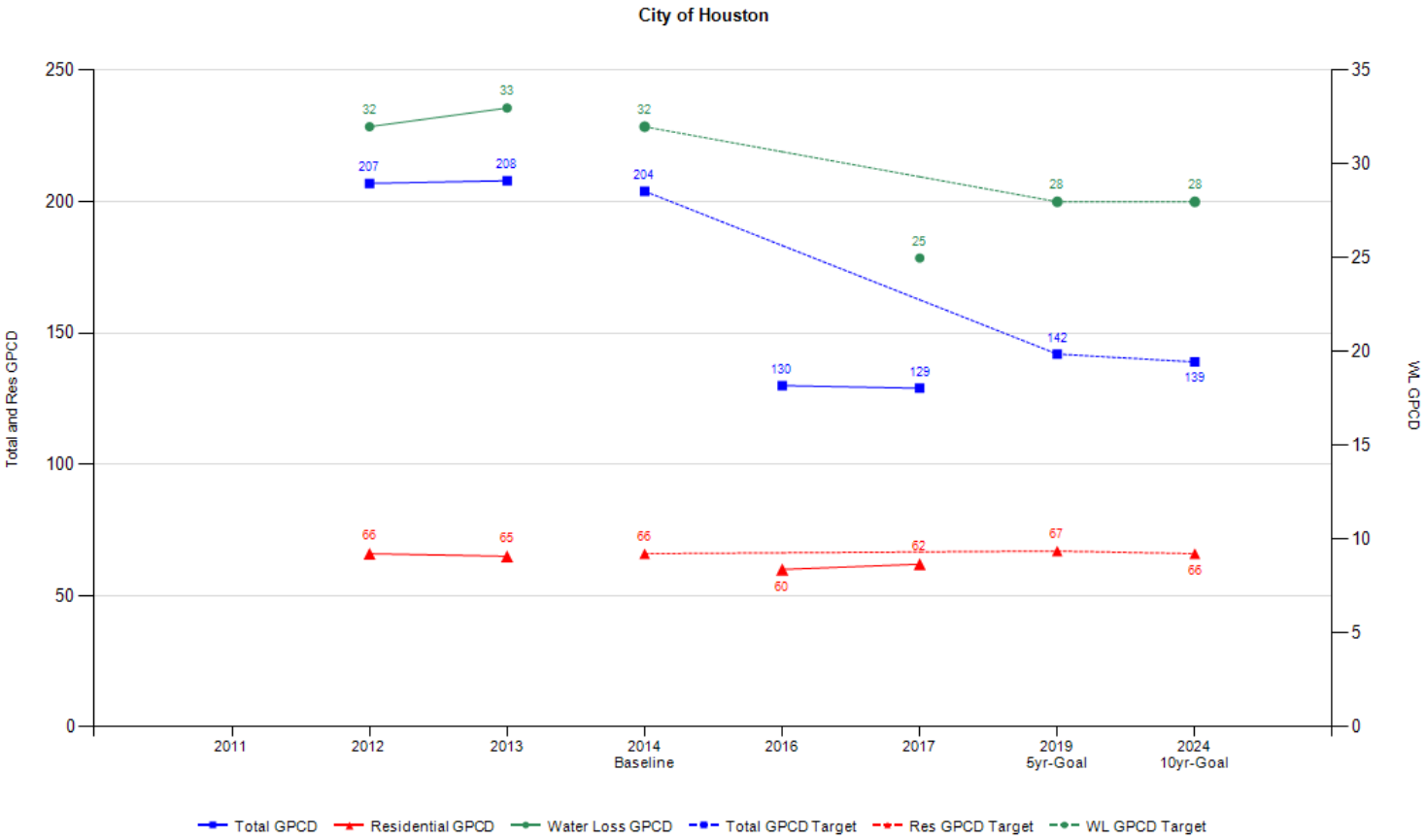
Source- Chris Milliner, NASA JPL



SINCE HARVEY

- LEAK ON 102” RAW WATER LINE
- LEAK ON 66” TREATED WATER LINE
- LEAK ON 54” TREATED WATER LINE
- LEAK ON 48’ TREATED WATER LINE
- HUNDREDS OF LEAKS IN DISTRIBUTION SYSTEM
- RAW WATER QUALITY HAS CHANGED

Water Conservation GPCD 5-Year and 10-Year Targets and Goals



Source: TWDB Website

UTILITY PERFORMANCE 2008 - 2018

CITY OF HOUSTON FISCAL YEAR
JULY 1 – JUNE 30

POPULATION INCREASE ~273,000
OVER 10 YEARS

2010 HGSD ZONE 3 TARGET OF
30% SURFACE WATER

FY	Total GPCD	Residential GPCD	MGD	Unaccounted Water (%)
2008	134		373	12.6
2009	149	67	382	12.7
2010	166	70	402	16.2
2011	143	72	446	16.5
2012	207	66	483	18.6
2013	208	65	447	14.9
2014	130	61	455	15.5
2015	126	60	429	14.4
2016	130	60	445	13.7
2017	129	62	458	13.3
2018			461	16.1

FOCUS FORWARD

- REDUCE NON REVENUE WATER
- ASSET MANAGEMENT
- RESILIANCE

QUESTIONS ?

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