



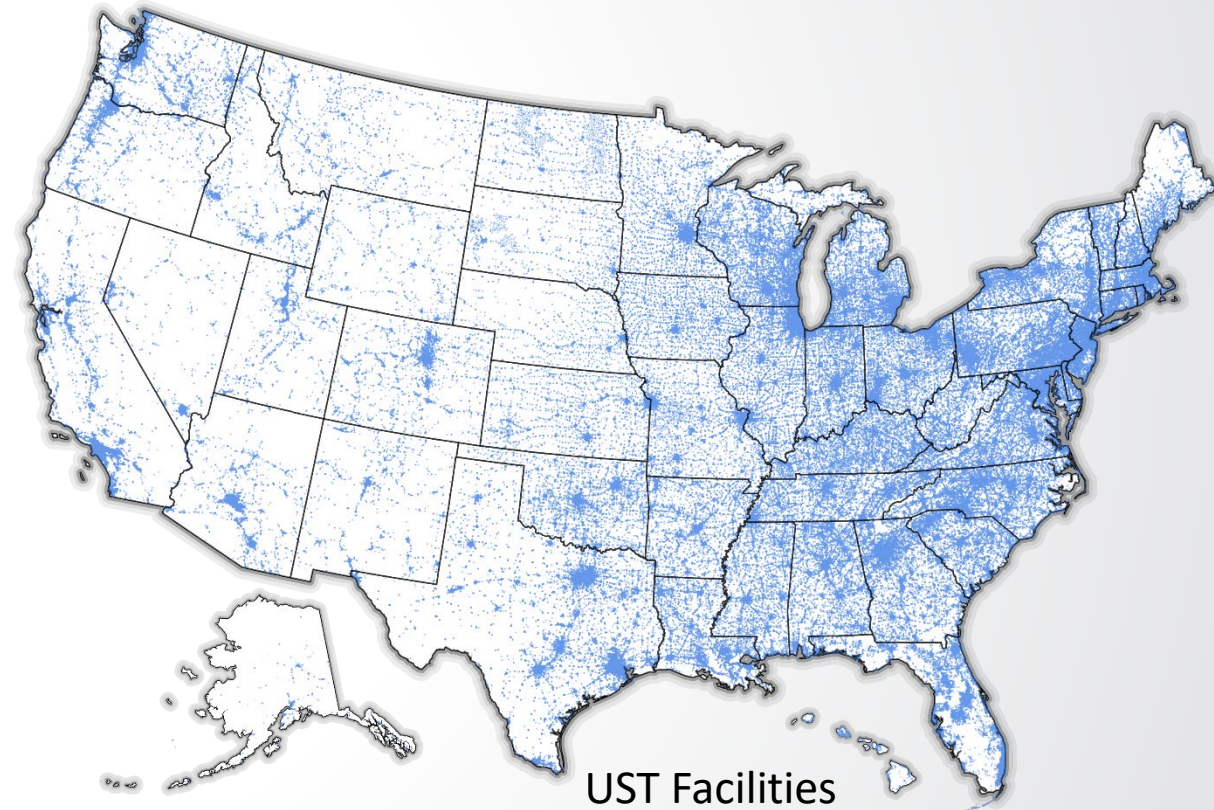
UST Finder: EPA's National Map of Underground Storage Tanks and Releases

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Office of Research and Development
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*2021 Esri User Conference
July 12-15*



- Scope of the tanks universe
 - 2.2 million underground storage tanks
 - 800,000 facilities
 - 550,000 leaking underground storage tank cleanups
 - Up to 6 Billion gallons of fuel is stored in USTs daily
- Potential impact
 - Ground water contamination principal concern, also petroleum vapor intrusion
 - Extreme weather conditions can increase the extent of contamination, spatially and temporally





- Unlike many EPA regulatory programs, UST and LUST programs are state delegated
- Prior to UST Finder the EPA didn't know where their regulated universe was located

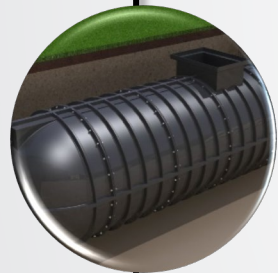
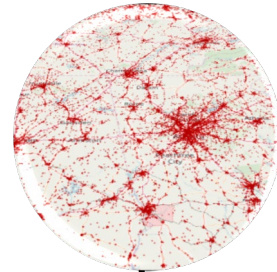
UST Corrective Action Measures for End-of-Year FY 2018 (Data through September 30, 2018)

Region / State	Active Tanks	Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Remaining
			Actions This Year	Cumulative		Actions This Year	Cumulative	
FOUR								
AL	16,370	31,124	63	12,129	12,018	150	11,136	993
FL	22,664	113,053	246	27,429	21,396	867	18,097	9,332
GA	29,264	51,821	233	14,398	14,231	312	13,496	902
KY	9,498	41,100	109	17,047	17,036	162	16,411	636
MS	8,080	24,123	149	8,105	7,885	103	7,628	477
NC	24,386	71,684	237	26,659	24,035	399	22,955	3,704
SC	11,329	34,257	110	10,211	9,990	93	7,936	2,275
TN	16,059	41,416	186	15,473	15,472	240	15,333	140
Subtotal	137,650	408,578	1,333	131,451	122,063	2,326	112,992	18,459
FIVE								
IL	18,454	63,458	266	25,488	24,465	431	20,061	5,427
IN	13,370	43,593	176	10,243	9,648	233	8,844	1,399
MI	17,630	72,100	246	23,321	22,823	218	15,237	8,084
MN	12,681	33,734	146	11,928	11,834	160	11,797	131
OH	21,087	51,818	415	32,250	31,680	486	30,637	1,613
WI	13,508	70,791	52	19,633	19,424	147	18,785	848
Subtotal	96,730	335,494	1,301	122,863	119,874	1,675	105,361	17,502

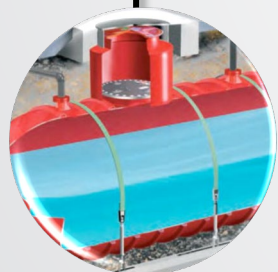


UST Finder Database Structure

National Database



UST Databases: 50
States & D.C.
-Installation Date
-Removal Date
-Status
(open/closed/temp)
-Double/single walled
-Facility ID



Compartment Database
-UST Capacity
-Fuel Type

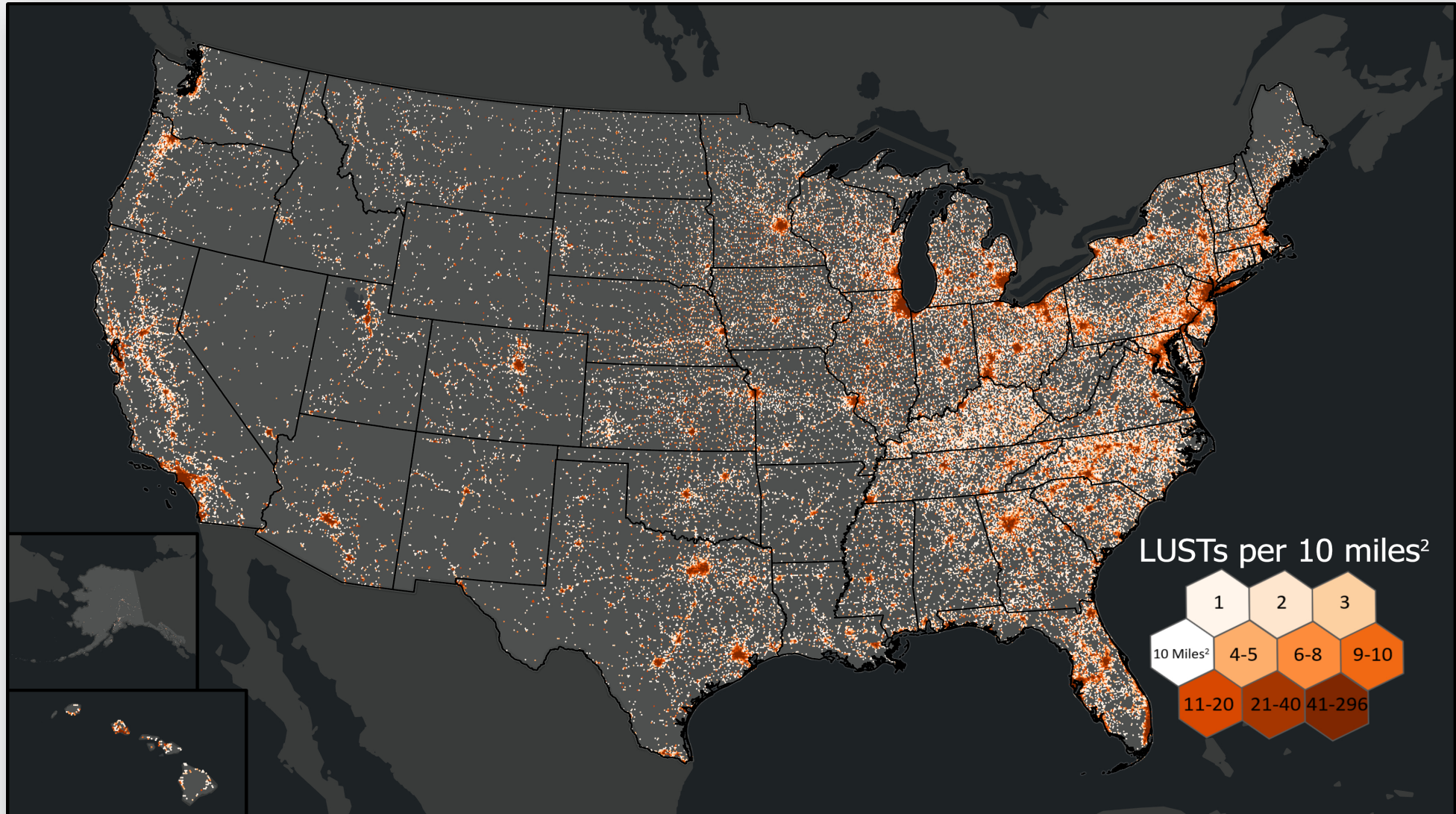


Facility Databases : 50
State & D.C.
-Coordinates
-Count of
open/closed/temp USTs



LUST Databases: 50
states & D.C.
-Coordinates
-Release Date
-NFA or Active
-Substance Released

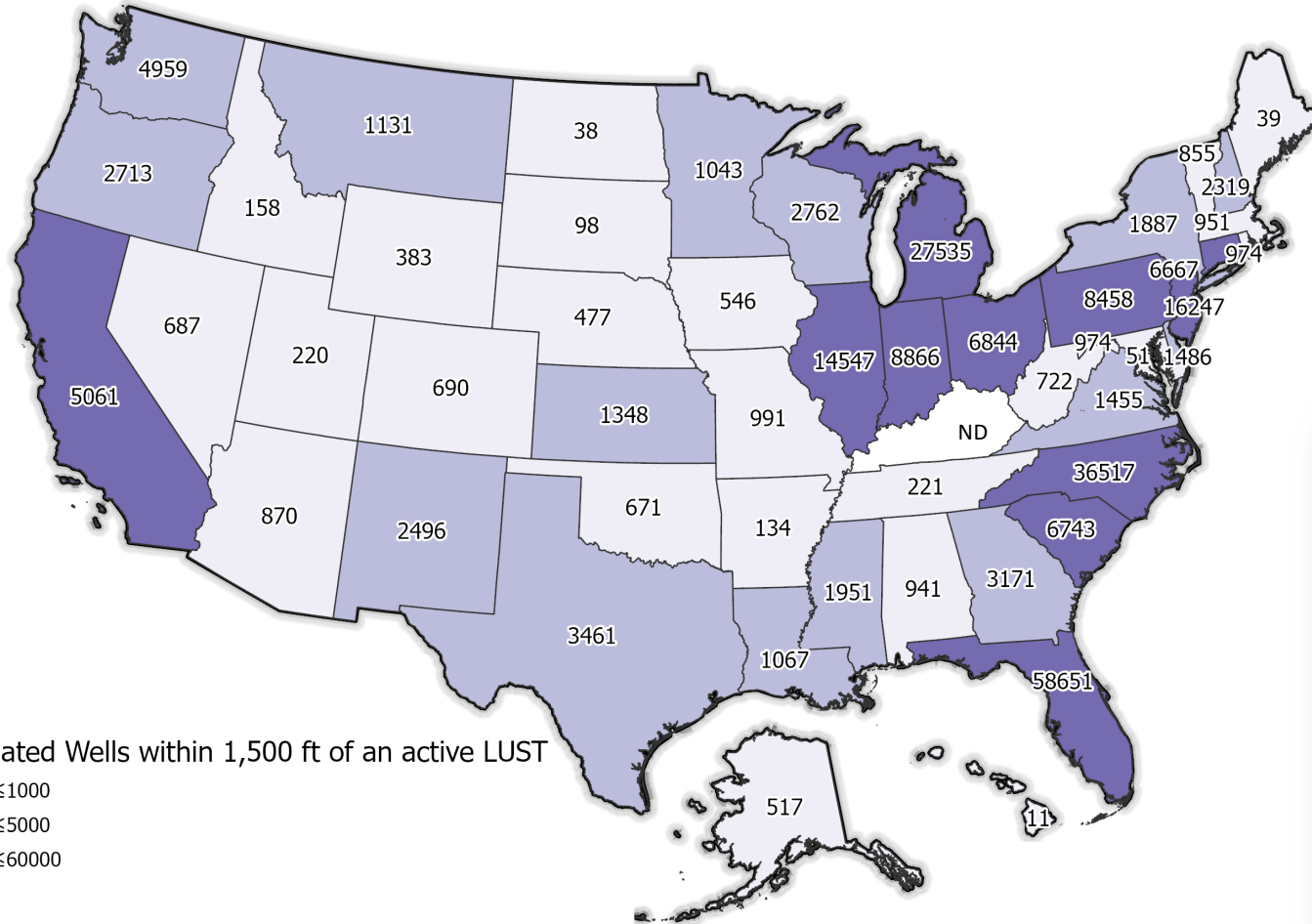
US Leaking Underground Storage Tanks



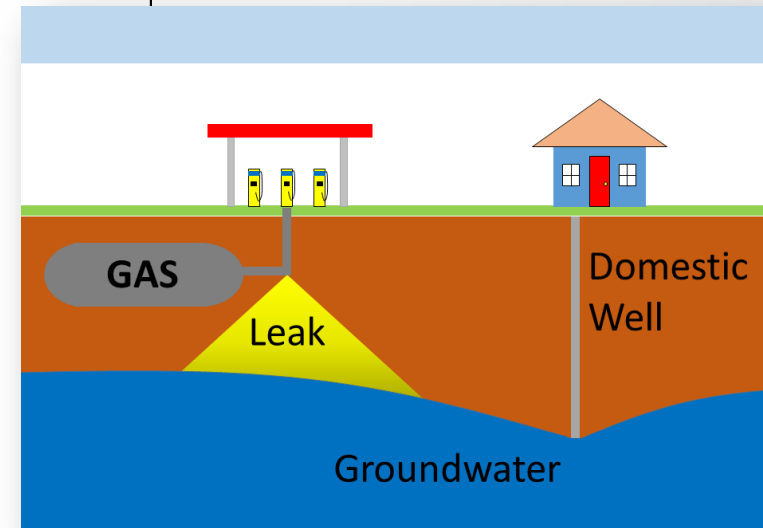


Proximity to Private Water Resource

COUNT OF PRIVATE DOMESTIC WELLS WITHIN 1500 FT OF ACTIVE LUSTS—BY STATE

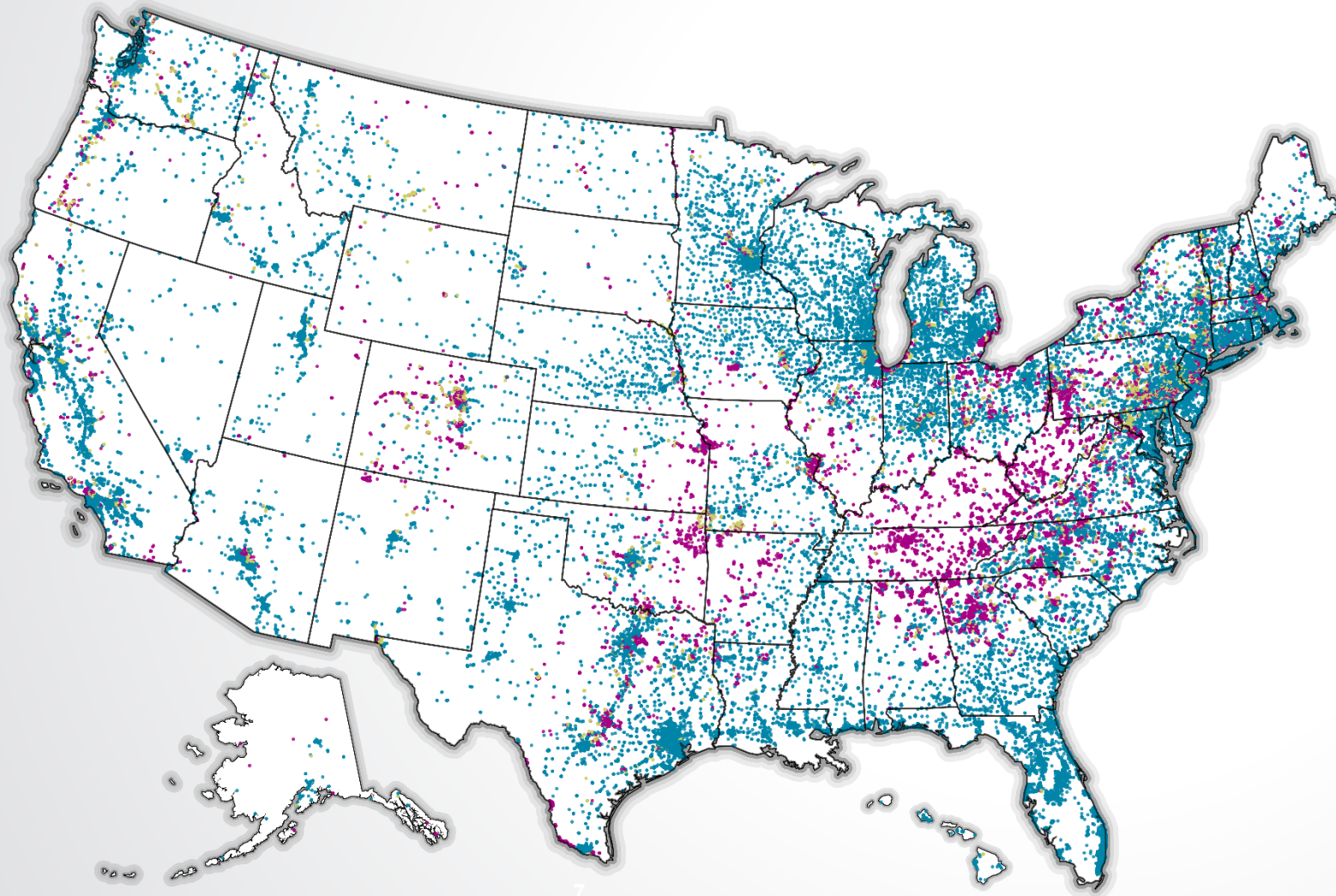


- Estimated 250,000 private domestic wells within 1,500 feet of all active UST releases





Underground Storage Tank Facilities within Source Water Protection Areas



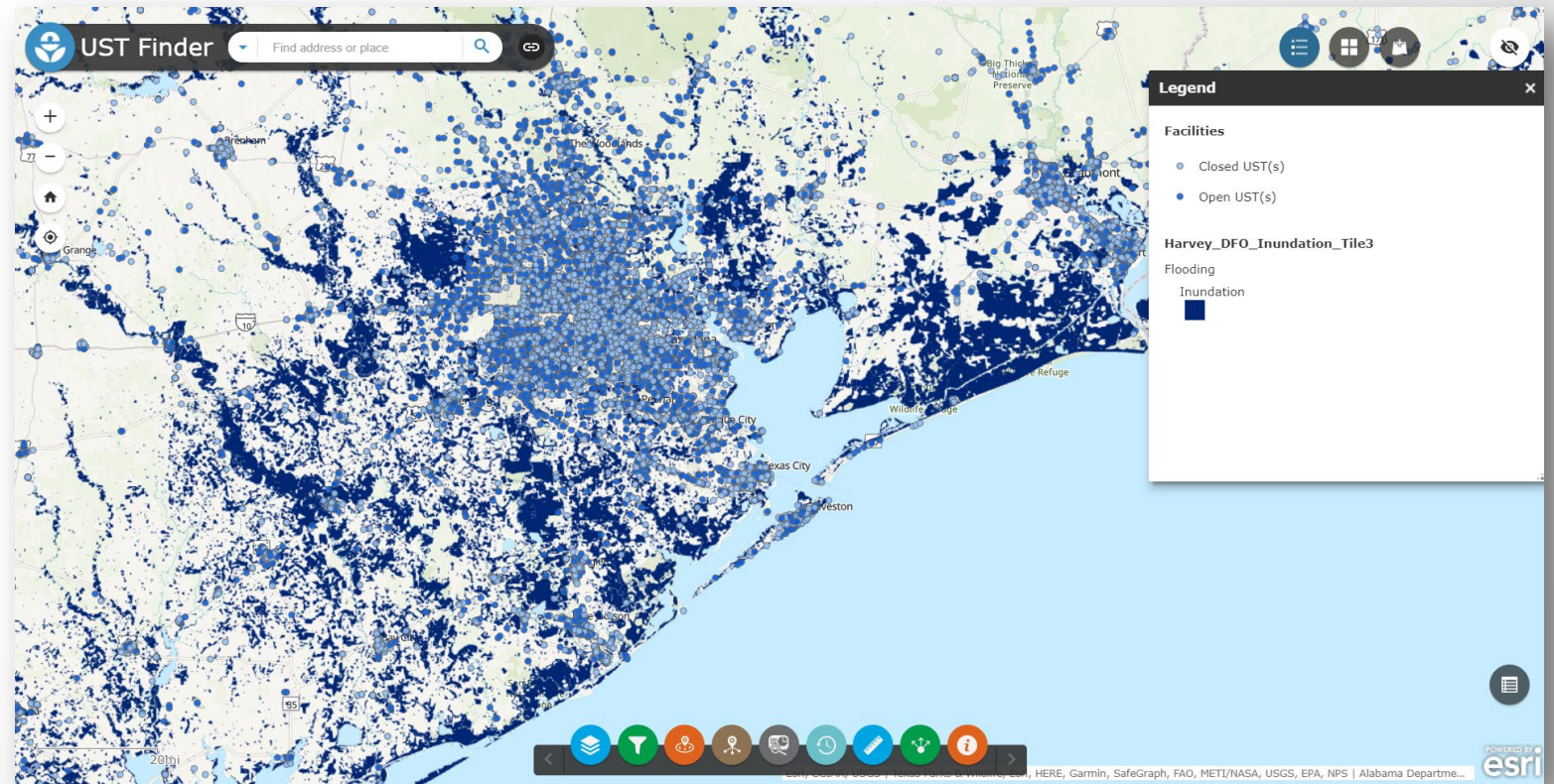
- 210k active USTs are within a source water protection area
- 64k USTs within surface water protection areas
- 163k USTs within groundwater protection areas

- Source water protection area (surface water)
- Source water protection area (groundwater)
- Both



Impacts post Hurricane Harvey

- Approx. 500 UST Facilities and 1,200 USTs were inundated
- Up to 15.4 millions of gallons of fuel/hazardous substance were inundated





UST Finder Demo

<https://gispub.epa.gov/ustfinder>

