



# 2021 WATER LEVEL MEASUREMENTS

High Plains Water District staff measured 1,347 observation wells in the Ogallala and Edwards-Trinity (High Plains) Aquifers in early 2021 to determine the water level changes since 2020.

**District Average Change**  
**[ -1.33 ]**  
**feet**

**Avg. Saturated Thickness**  
**[ 54 ]**  
**feet**

View all observation well data at  
[map.hpwd.org](http://map.hpwd.org)

## 2021 County Summary

	Obs. Well Count	Average Water Level Change (ft)	Average Saturated Thickness (ft)
Armstrong	10	-0.22	37
Bailey	101	-1.39	59
Castro	103	-2.52	56
Cochran	82	-0.98	38
Crosby	69	+0.08	89
Deaf Smith	94	-1.23	60
Floyd	101	-1.51	67
Hale	121	-1.57	57
Hockley	96	-1.09	38
Lamb	115	-1.48	48
Lubbock	114	-1.11	58
Lynn	95	-1.96	45
Parmer	103	-1.97	48
Potter	6	-0.36	50
Randall	51	-0.26	52
Swisher	86	-0.67	46

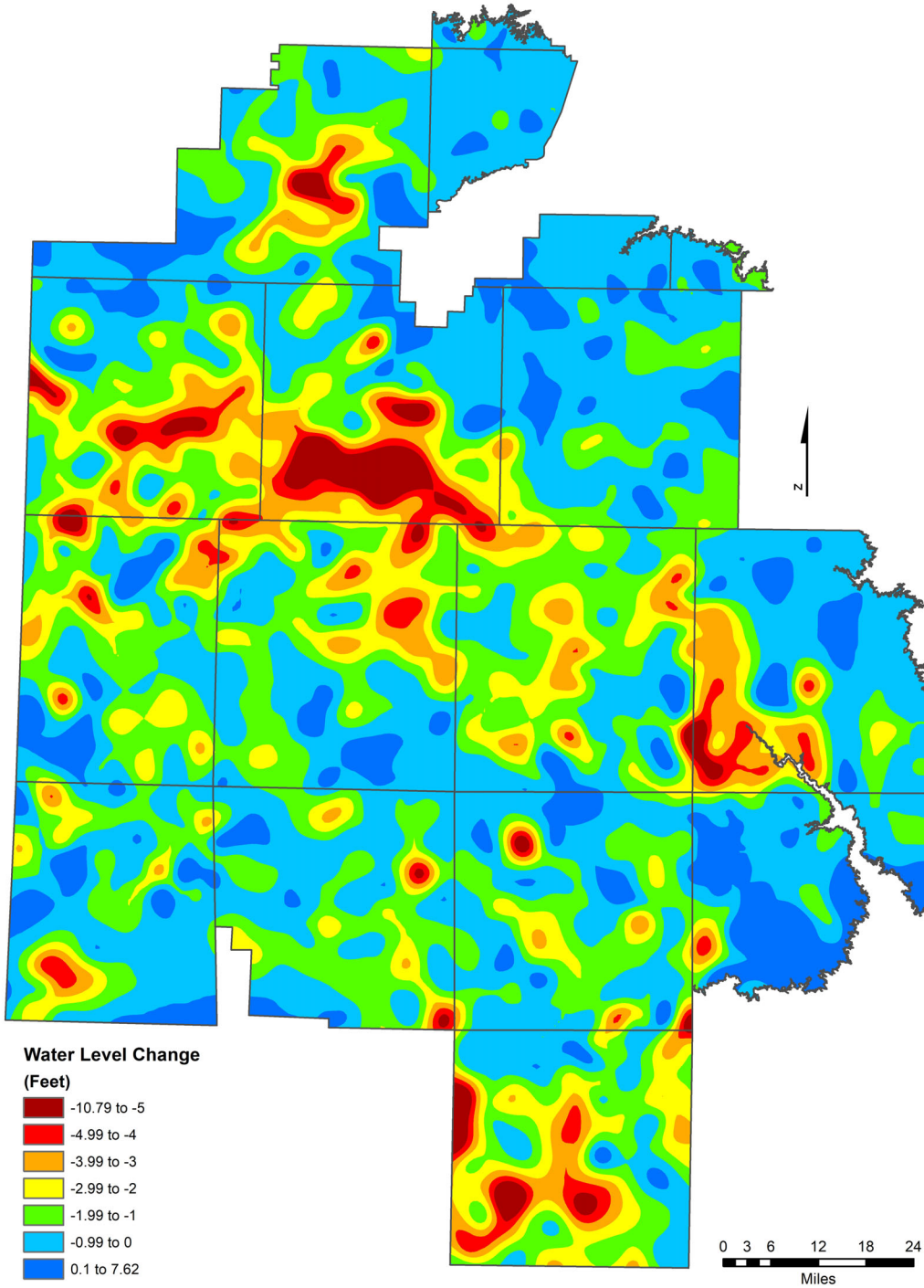
## District-wide Average Water Level Changes

Year	Average Change (feet)
2021	-1.33
2020	-0.62
2019	-1.05
2018	-0.16
2017	-0.52
2016	+0.37
2015	-0.56
2014	-1.32
2013	-1.87
2012	-2.56

**See map on back for areas of change.**



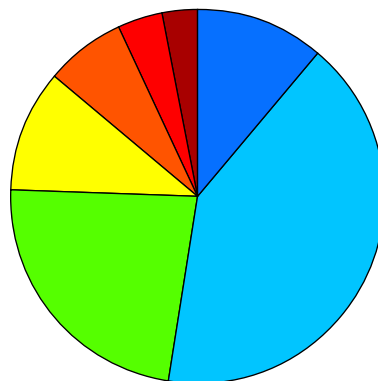
# 2021 WATER LEVEL CHANGE



Maximum Water Level Rise  
**[ 7.62 ]**  
 feet  
 Crosby County

Maximum Water Level Decline  
**[ -10.79 ]**  
 feet  
 Castro County

## Analysis of Water Level Changes (feet)



<span style="color: darkred;">■</span> -10.79 to -5	40 wells
<span style="color: red;">■</span> -4.99 to -4	49 wells
<span style="color: orange;">■</span> -3.99 to -3	92 wells
<span style="color: yellow;">■</span> -2.99 to -2	141 wells
<span style="color: lightgreen;">■</span> -1.99 to -1	306 wells
<span style="color: cyan;">■</span> -0.99 to 0	545 wells
<span style="color: blue;">■</span> 0.01 to 7.62	150 wells