



# Little Blue Natural Resources District

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Fall 2019

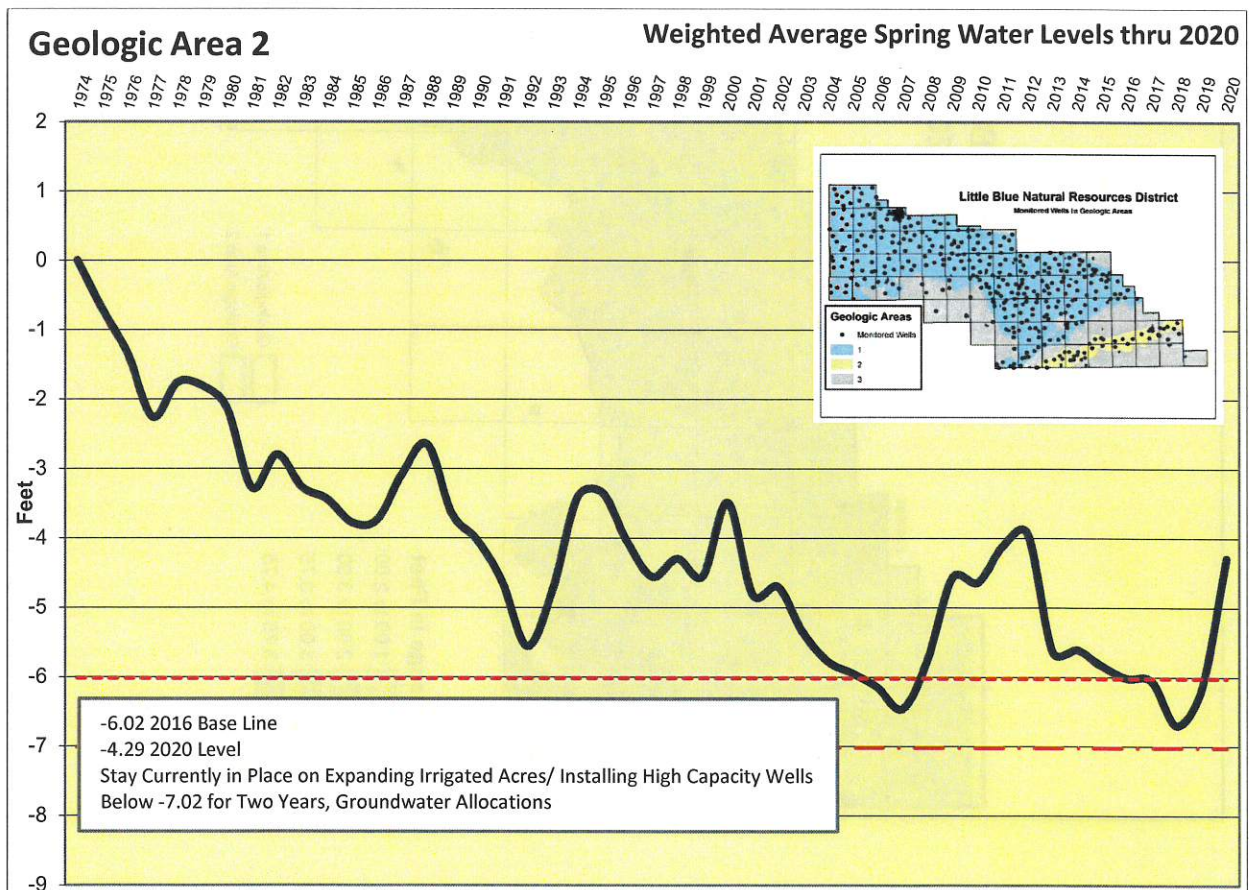
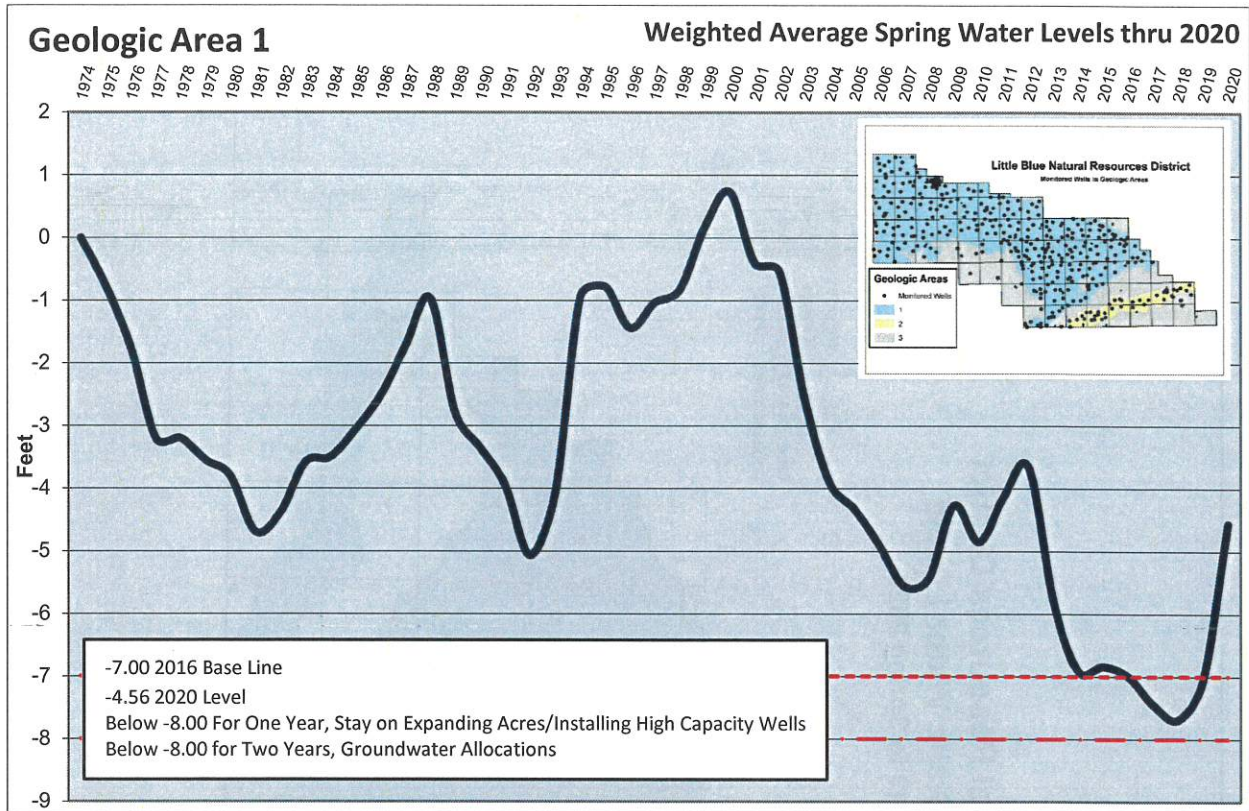
Last year the fall-colored water level map had changes that ranged from declines shown in red and rises shown in blue. This fall there was difficulty finding enough differing shades of blue to depict the water table rises across the district! On the change map the weighted average rise for Geologic Unit 1 was +2.57, for Geologic Unit 2 the change was a +1.56. This is the 2nd largest fall rise; the District averaged an increase of +3.20 feet from the fall of 1992 to 1993. However, the District was not using weighted average change or differing geologic areas then.

The darker shades of blue on the map had water level rises of 5 to 6 feet in Unit 1; 2 to 3 feet in Unit 2. The District does not graph fall water level changes, only the spring levels are used for regulatory purposes based on a weighted average graph. However, staff has added 4 graphs from dedicated observation wells with daily data for the last 9 years. You can note how significant the rise has been from the summer of 2018 to 2019 for each. Fangmeier and Schoenrock are in Unit 2, Wright, and Werner in Unit 1. On the color change map there were large areas by Blue Hill and Davenport with very significant rises, but those large numbers are not found in Geologic Area 2.

Staff would not expect to see a 2½ feet rise in the spring water table because seeps and springs like those pictured along the river east of Hebron are common, and some groundwater will discharge back as streamflow over the winter. USGS records the Little Blue River's flow at Hollenberg on November 4th at 370 cfs. The median for that date for the last 44 years is 148 cfs so there is most definitely a surplus of water in the system right now. The surplus of rainfall received this summer and reduced demand on the aquifer will very likely make a positive change for spring levels in 2020.

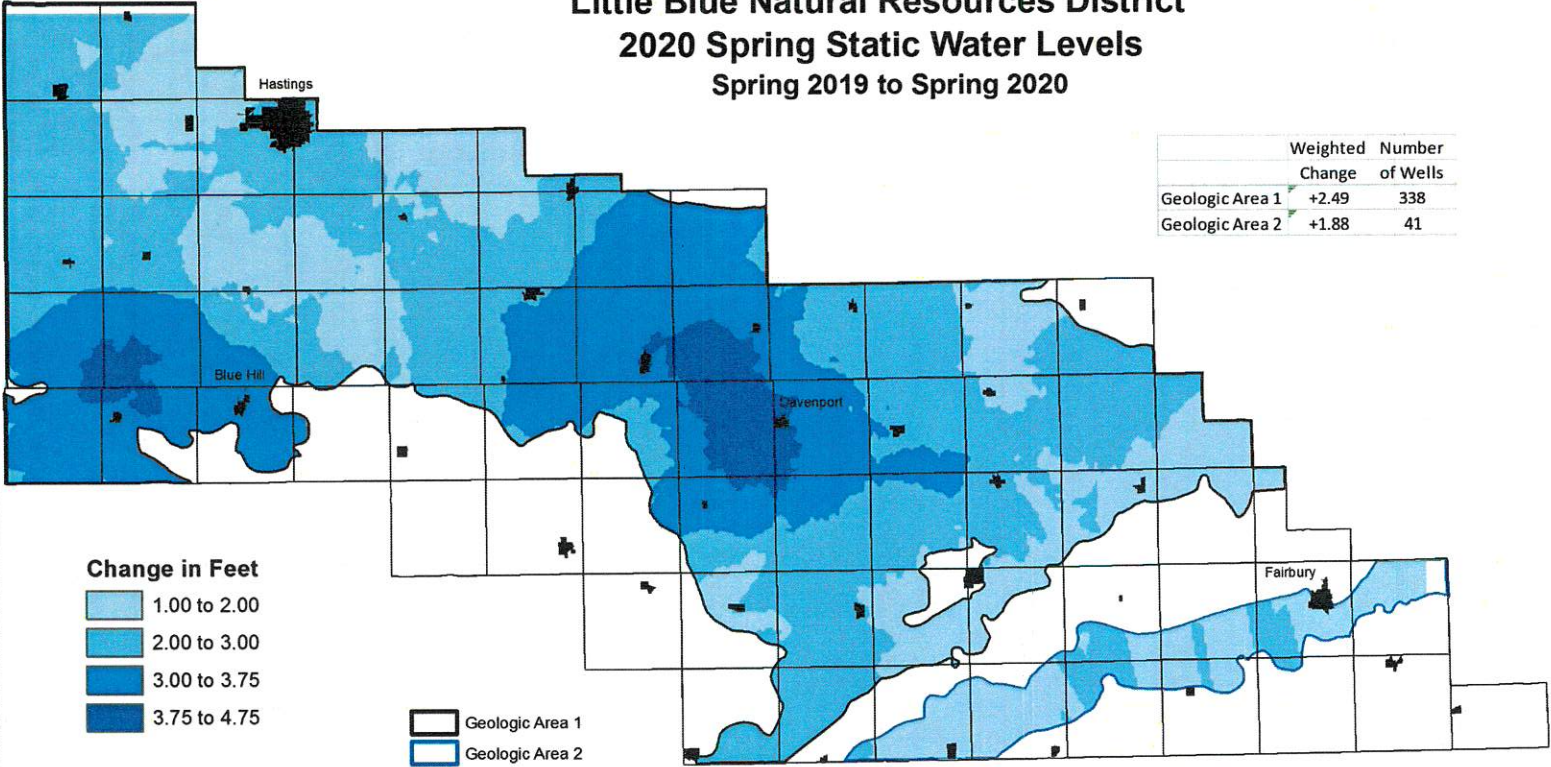






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Little Blue Natural Resources District  
2020 Spring Static Water Levels  
Spring 2019 to Spring 2020



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## District Wide

