



Little Blue Natural Resources District

100 East 6th #100 • Davenport, NE 68335 • (402) 364-2145

lbprd@littlebluenrd.org • <https://littlebluenrd.org>

2022 Spring Static Water Levels

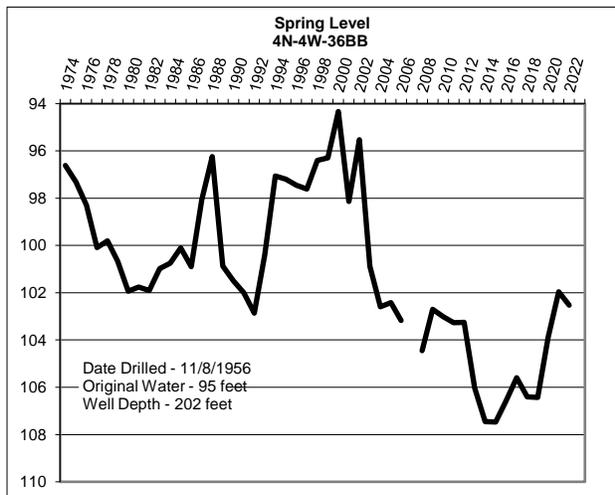
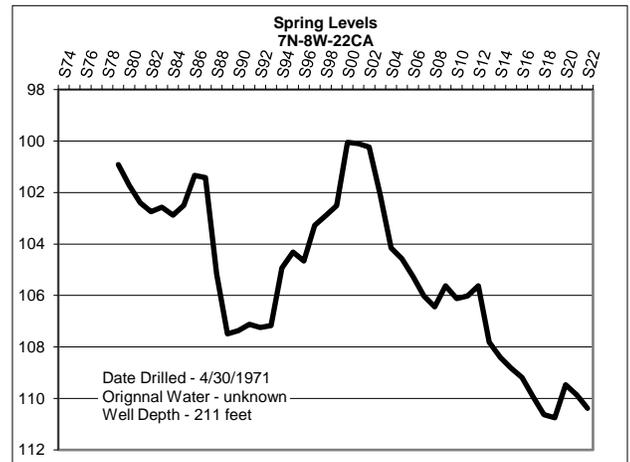
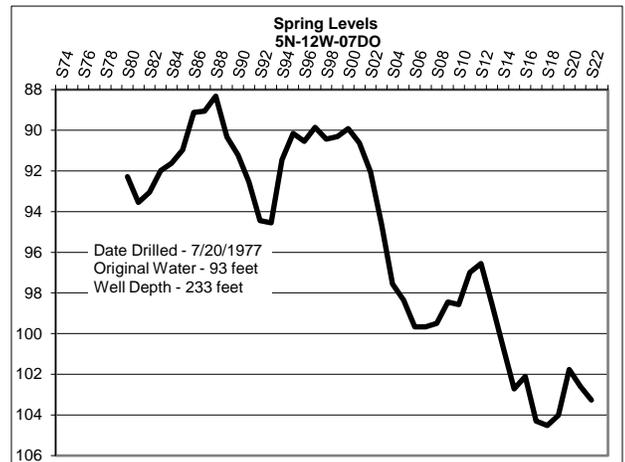
Kevin Orvis, Projects Manager

Spring water levels were completed the month of April. Geologic Area 1 was down -0.49 feet, Geologic Area 2 was down -0.61 feet. The first attachment is the weighted average graphs of each area and show the recent upward trends reversing in 2022 and having a small decline this spring. There are also two dashed lines on the graph depicting a baseline and another when stays or allocations would begin.

The second attachment is 2 colored maps; one comparing 2022 levels to 2021 and the other 2022 levels to 2016. Each of these maps are noted in the sub-title of the heading. The Spring 2021 to Spring 2022 colored map has a large majority of the District with declines. There were some small rises around Bladen, Kenesaw and Shickley; with some significant rises by Chester. But overall most areas are lower.

The weighted average graphs show levels are still above the 2016 baseline, but not all individual wells are. The Spring 2016 to Spring 2022 colored map show there are some wells around Holstein, Glenvil, and east of Fairbury that have spring levels that have fallen below those recorded in 2016. The 2 graphs to the right are individual wells located in those areas.

The third graph, located below, is of a well near Davenport. The 2022 spring level is still above that 2016 baseline. But these graphs are shown just for information, any controls in the District's Rules are based on the Weighted Average Spring Water Levels.

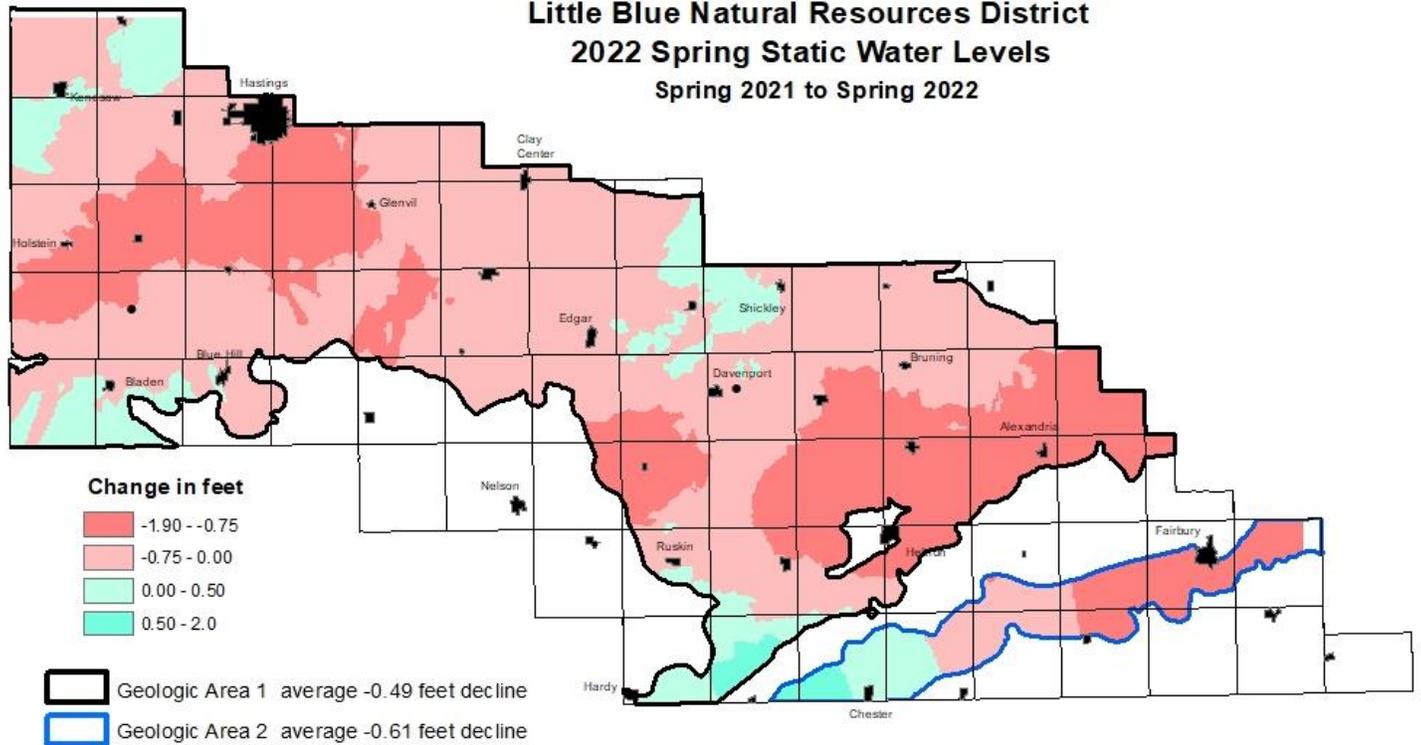


Little Blue Natural Resources District

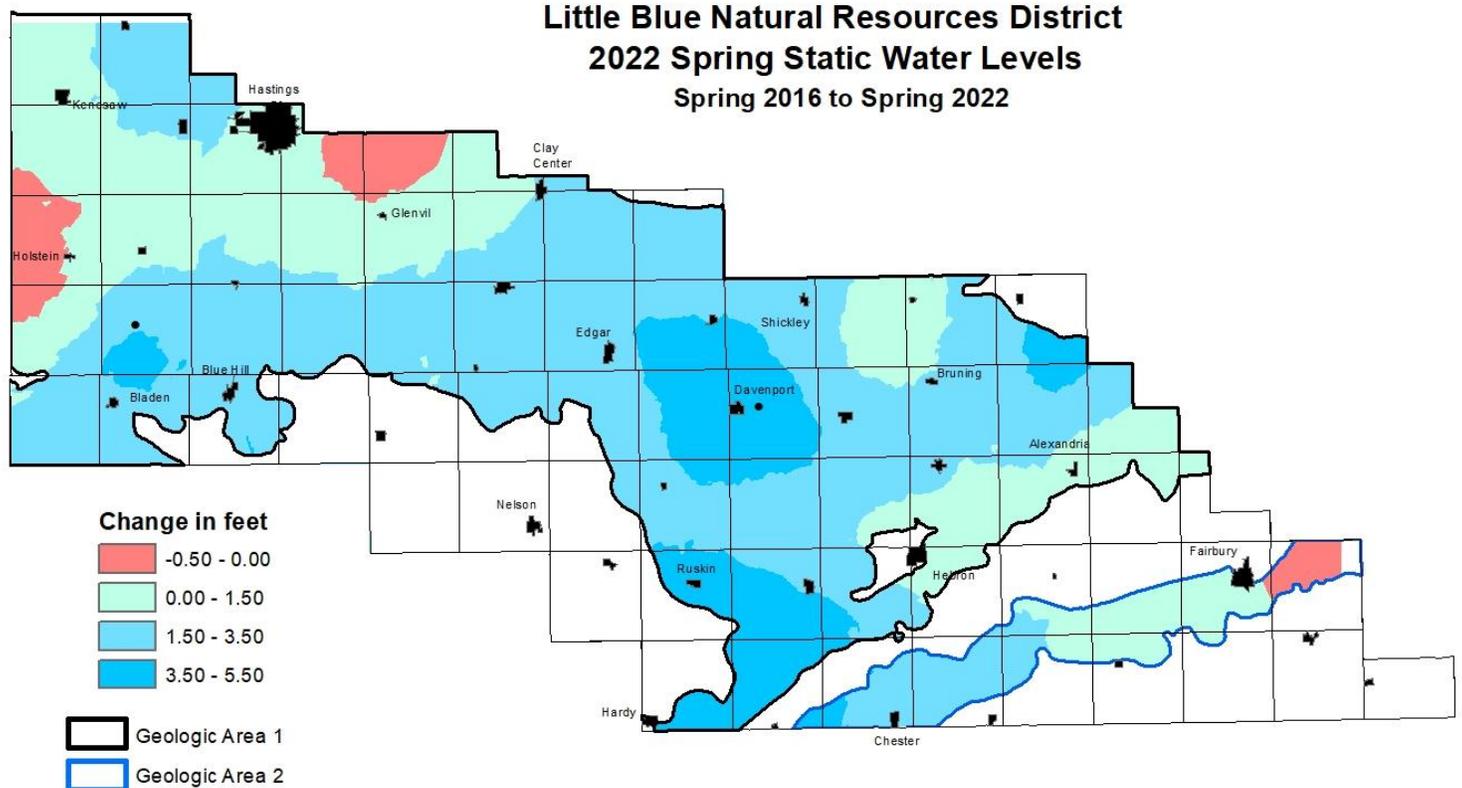
The last attachment of straight-line graphs compares the weighted average change in the spring water levels to annual irrigation usage and annual rainfall. There appears to be no change to the water table if the District uses as an average of around 8 inches of irrigation or receives 27 to 30 inches of annual rainfall. The annual irrigation use is tighter to the trend line than annual rainfall; which might show a quicker reaction in the water table to those withdrawals. The rainfall points are more scattered, and the influence to water levels muted by when the precipitation occurred, how quickly the rainfall event happened, and time frame for excess rainfall to re-charge.

Little Blue Natural Resources District

**Little Blue Natural Resources District
2022 Spring Static Water Levels
Spring 2021 to Spring 2022**



**Little Blue Natural Resources District
2022 Spring Static Water Levels
Spring 2016 to Spring 2022**



Little Blue Natural Resources District

