

The Little Blue NRD developed a network of wells dedicated to monitoring the elevation of the groundwater table in 2010. Along with installing the observation well; data on the saturated thickness, aquifer material, and aquifer bottom were all noted. There has been much interest in how the water table has fluctuated during this summer, with the notable lack of rainfall and extreme temperatures that have been recorded

Generally we don't begin recording fall water levels until late September, but with the recent installation of the dedicated wells, levels are recorded daily. This is accomplished by installing an automated logger in each of the dedicated well sites. Even those generally don't have the data downloaded until September. However; with the conditions mentioned above, some of the loggers had their data pulled at the end of July.

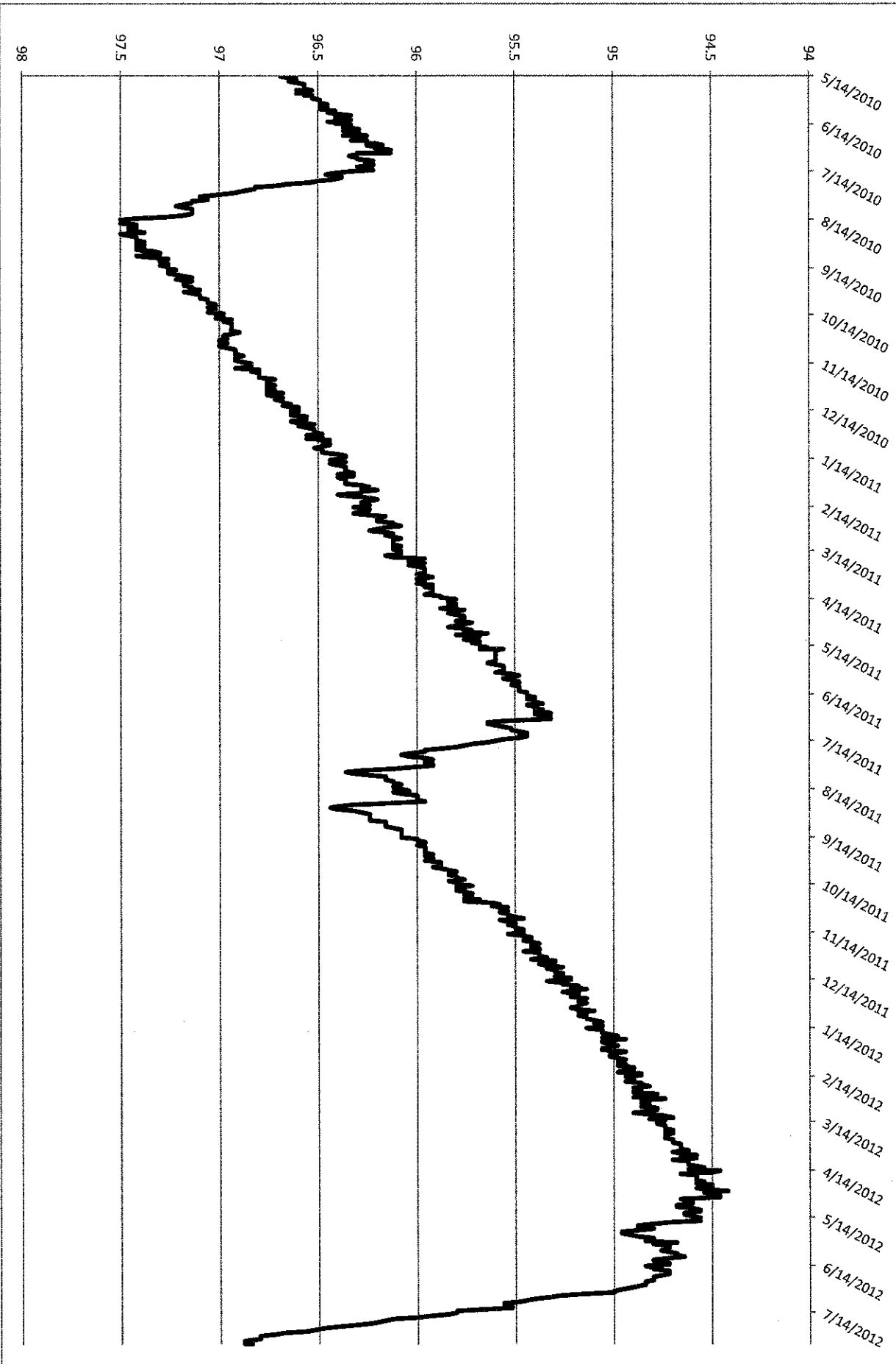
The well in the NE NW 21-5N-12W has three summers of information. If you note the scale on the left hand side of the graph, the water table at this location has fluctuated by 35 feet over time. The total saturated thickness is around 70 feet, and the aquifer material is adequate but the sands and gravels are mixed with a high percentage of clay as well.

The well in the NW NW 32-7N-10W appears to vary as much as the first well, but take another look at the scale. The water table has only fluctuated by 3 feet over the last 3 summers. This area has over 150 feet of saturated thickness and the aquifer is comprised of very well graded gravels.

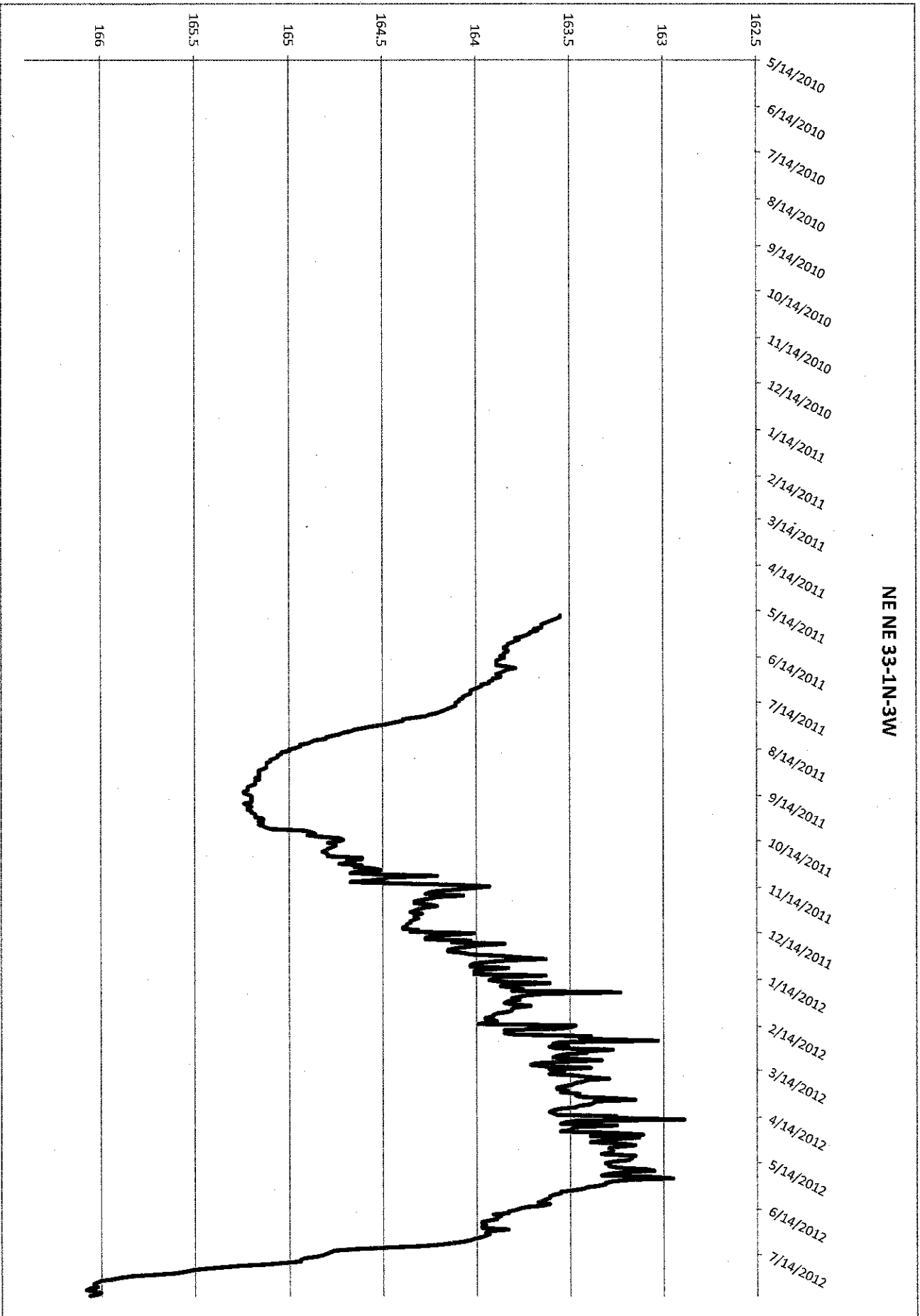
The well in the NE NE 33-1N-3W only has two summers of data, and the saturated thickness is only 35 feet. But really, by only declining  $1\frac{3}{4}$  feet from last July, this site has not been influenced by the drought much. However; the summer decline that occurred when the irrigation wells began withdrawals, was much more pronounced than last year.

The last well, in the NE SE 15-2N-2E, is only 20 feet deep. It is located right along the Little Blue River in Jefferson County. Fluctuation of the water level in this well is more tied to flows of the Little Blue River than well withdrawals.

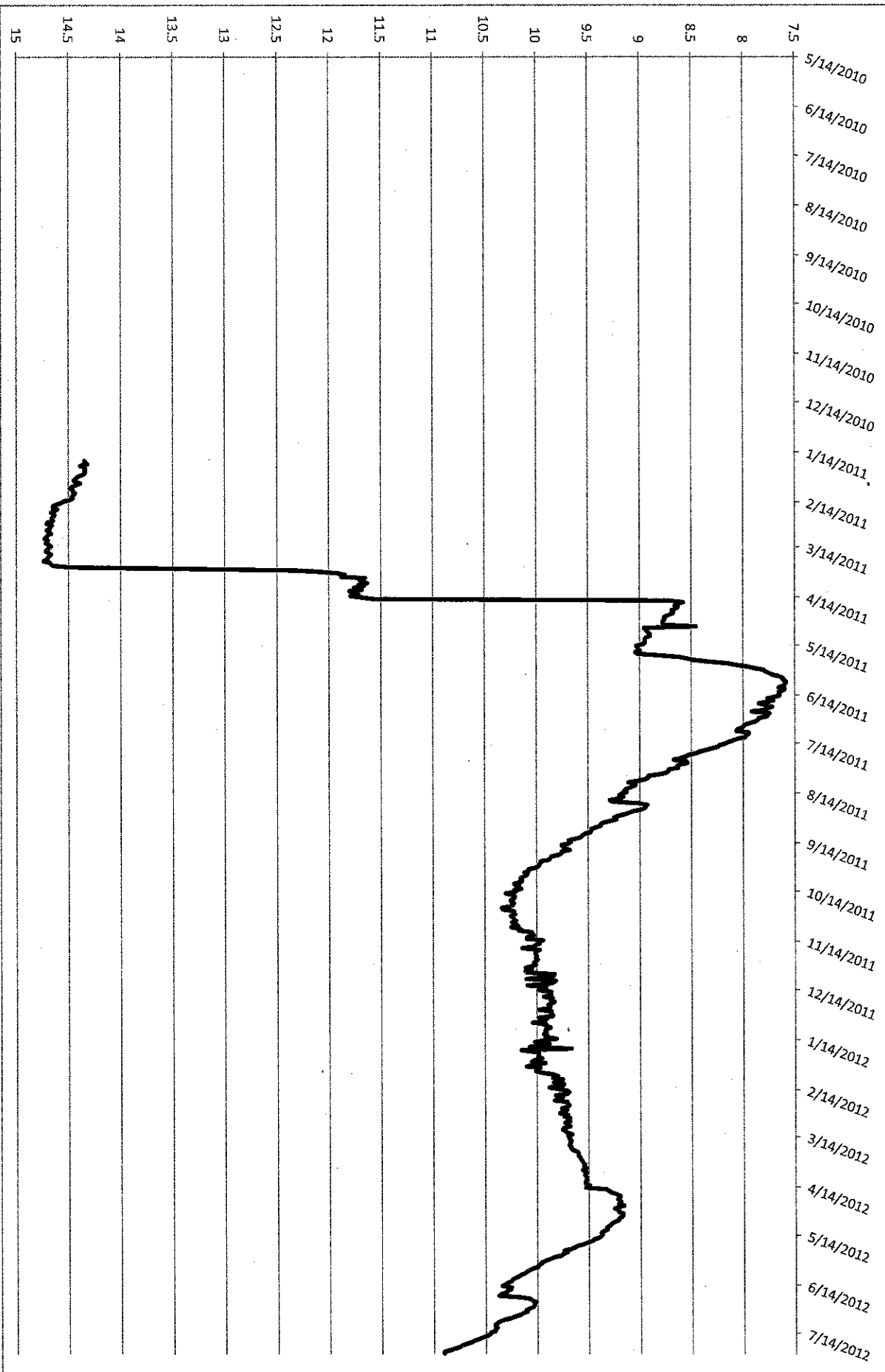
NW NW 32-7N-10W



NE NE 33-1N-3W



NE SE 15-2N-2E



NE NW 21-5N-12W

