Experiments conducted at Hubbard Brook have demonstrated the effects of deforestation on stream water ion concentrations and overall streamflow. Solute concentrations increase when trees are cut down due to leaching of nutrients from the environment, and streamflow quantities also increase as a result of deforestation. In this data story, we show how deforestation changes solute concentrations in stream water for Watersheds 2, 4, and 5, where Watershed 6 is a biogeochemical reference. Different types of deforestation occurred in Watershed 2, 4, and 5, and the years in which the deforestation took place are indicated by black lines on the graph.