Subsidence

The subsidence rate, , is influenced by water extraction pressure. This is implemented by assuming that the rate of subsidence, , changes over time with:

(21)

where and are the total number of wells inside aquifer , at time , and time 1 respectively, and are formally calculated using:

(22)

Where , is the number of wells in census-block at time , and identifies the aquifer in which the census-block belongs to.