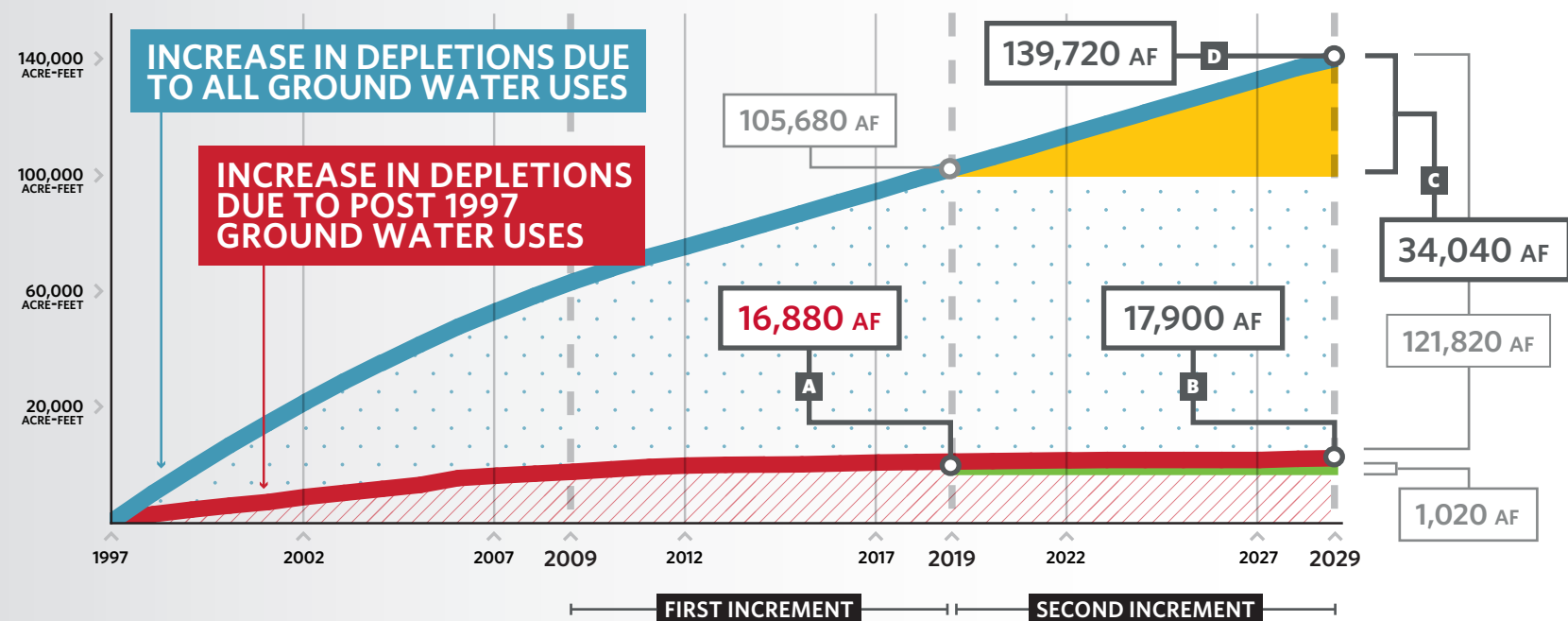


UPPER PLATTE BASIN

# Growth In Depletions

**BACKGROUND:** The First Increment of the Upper Platte basin-wide plan was adopted in 2009. It is a requirement that a technical analysis of the first basin-wide plan must occur in the ten years following its adoption. This technical analysis is needed to determine the path forward in order to achieve the goals and objectives set for the plan. First Increment efforts also worked to establish the overall difference between current and fully appropriated levels of development.

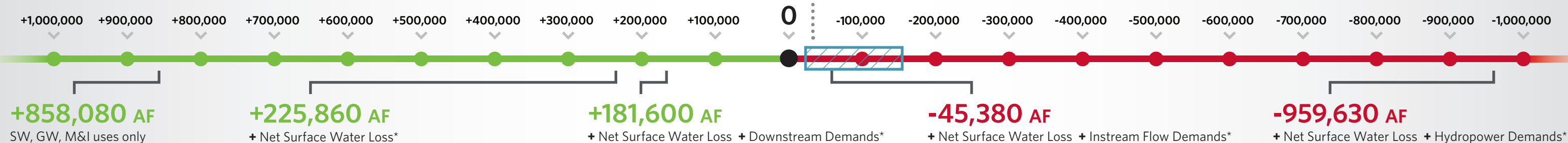
- First increment depletions offset - post 1997 uses (required by statute)
- Second increment depletions offset - post 1997 uses (required by statute)
- Depletions due to uses in place prior to 1997
- Growth in depletions during second increment due to all Ground Water use (2019-2029)



Total depletions from all Ground Water uses in 1997 estimated 391,470 AF. Data used to estimate increases in depletions due to all Ground Water uses is from the results of the most recent COHYST and WWUM models (2015). Data used to estimate increases in depletions due to post-1997 Ground Water uses is from previous analysis conducted by R. R. Luckey (2008). The robust review currently underway will provide updated data for both of these depletions estimates.

## SUPPLY & DEMAND BALANCE

The Single Planning Group will help define the progress towards fully appropriated conditions to be made during the second increment. The scale below shows values taken from the Basin-Wide Supply and Demand Analysis.



\* All figures reflect the average annual difference when comparing supplies with Surface Water (SW), Ground Water (GW), and Municipal and Industrial (M&I) consumptive uses.

## SECOND INCREMENT

The Single Planning Group will help define the progress towards fully appropriated conditions to be made during the second increment.

