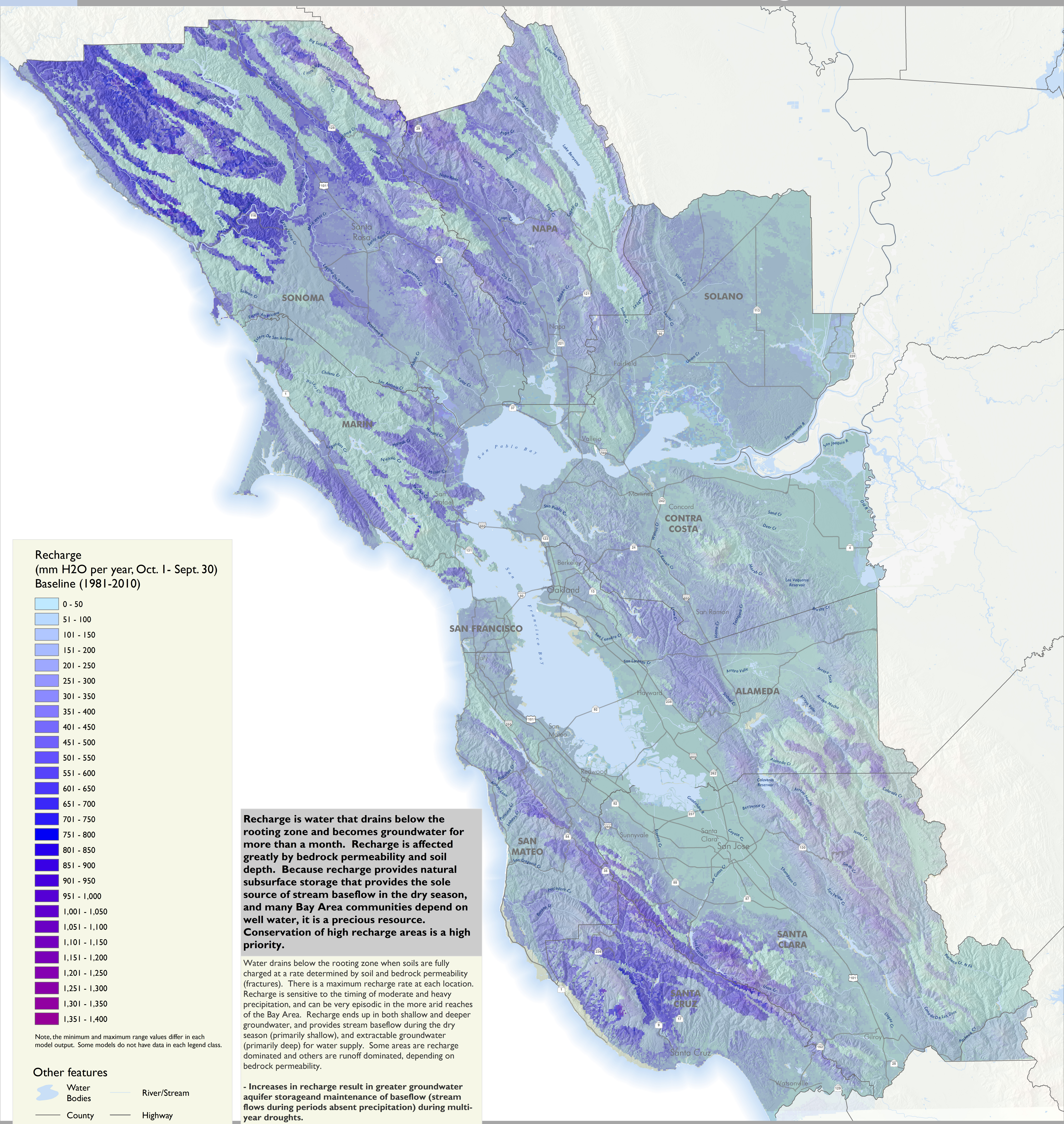


# Recharge 1981 - 2010



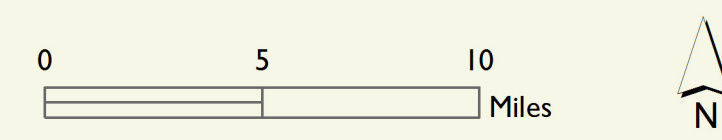
Recharge  
(mm H<sub>2</sub>O per year, Oct. 1 - Sept. 30)  
Baseline (1981-2010)

- 0 - 50
- 51 - 100
- 101 - 150
- 151 - 200
- 201 - 250
- 251 - 300
- 301 - 350
- 351 - 400
- 401 - 450
- 451 - 500
- 501 - 550
- 551 - 600
- 601 - 650
- 651 - 700
- 701 - 750
- 751 - 800
- 801 - 850
- 851 - 900
- 901 - 950
- 951 - 1,000
- 1,001 - 1,050
- 1,051 - 1,100
- 1,101 - 1,150
- 1,151 - 1,200
- 1,201 - 1,250
- 1,251 - 1,300
- 1,301 - 1,350
- 1,351 - 1,400

Note, the minimum and maximum range values differ in each model output. Some models do not have data in each legend class.

Other features

- Water Bodies
- River/Stream
- County
- Highway



**Recharge is water that drains below the rooting zone and becomes groundwater for more than a month. Recharge is affected greatly by bedrock permeability and soil depth. Because recharge provides natural subsurface storage that provides the sole source of stream baseflow in the dry season, and many Bay Area communities depend on well water, it is a precious resource. Conservation of high recharge areas is a high priority.**

Water drains below the rooting zone when soils are fully charged at a rate determined by soil and bedrock permeability (fractures). There is a maximum recharge rate at each location. Recharge is sensitive to the timing of moderate and heavy precipitation, and can be very episodic in the more arid reaches of the Bay Area. Recharge ends up in both shallow and deeper groundwater, and provides stream baseflow during the dry season (primarily shallow), and extractable groundwater (primarily deep) for water supply. Some areas are recharge dominated and others are runoff dominated, depending on bedrock permeability.

- Increases in recharge result in greater groundwater aquifer storage and maintenance of baseflow (stream flows during periods absent precipitation) during multi-year droughts.
- Decreases in recharge results in less groundwater storage and loss of baseflow, especially during multi-year droughts.

