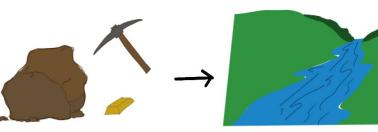
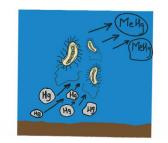
Effects of vegetation on methylmercury concentrations and loads in a mercury contaminated floodplain



Precious metal mining in the Sierra Nevadas made California the leading producer of mercury (Hg) in the US.



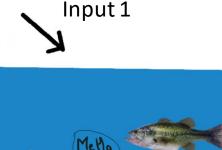
Historical gold mines are a significant source of Hg to the Sacramento-San Joaquin Delta



Bacteria in flooded soils convert Hg (metal) to bioavailable methylmercury while metabolizing organic carbon.

Decomposing vegetation on the

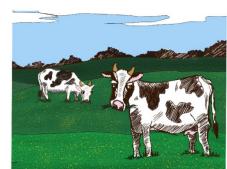
flooded pastures causes

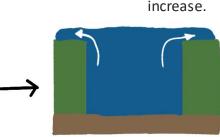


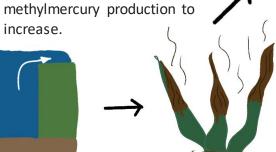
methylmercury into the water column. Methylmercury magnifies as it moves up the food chain, with neurotoxic effects for fish and people.

These are both sources of

When the Yolo bypass is flooded, the largest inundated land use is pasture devoted to cattle grazing.







Input 2

Mena Mena Mena