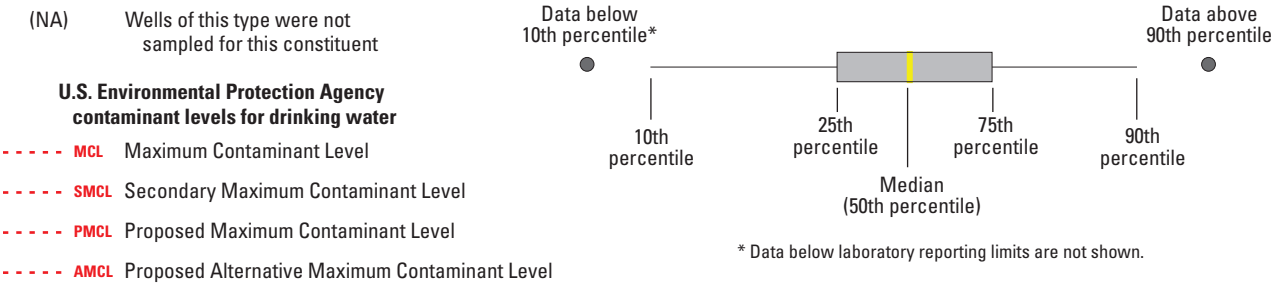
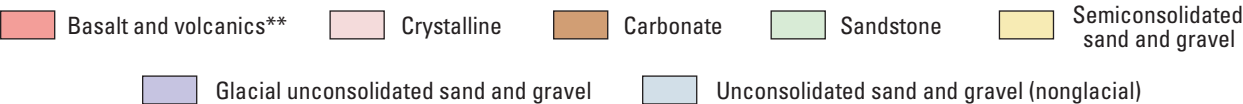


Appendix 4. Groundwater Quality in Principal Aquifers in a National Context—Concentrations by Well Type

Principal Aquifer (number of samples)



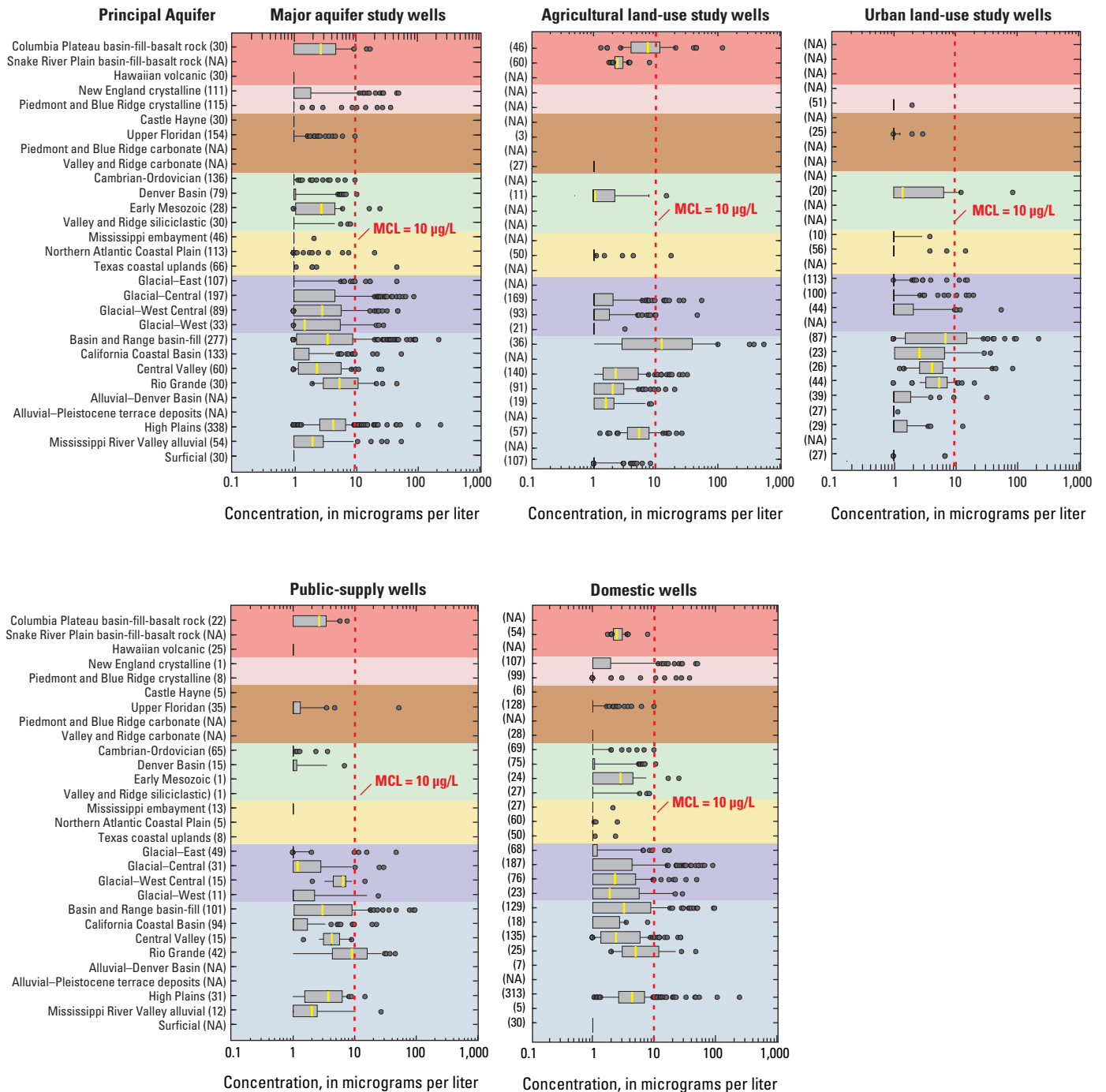
Lithology



This appendix shows graphical comparisons of chemical concentrations (1991 to 2010) for selected inorganic and organic constituents of potential human-health or aquatic-life concern in selected Principal Aquifers of the United States. For each constituent, the concentration data are grouped according to the type of groundwater study for which samples were collected (major aquifer study, agricultural land-use study, or urban land-use study) and by well type (domestic wells and public-supply wells). For each study or well type, the aquifers also are grouped according to aquifer lithology: basalt and volcanics,** crystalline, carbonate, sandstone, semiconsolidated sand and gravel, glacial unconsolidated sand and gravel, and unconsolidated sand and gravel (nonglacial). Data for a particular compound were not plotted if there were fewer than 10 samples for a particular well network in a Principal Aquifer; not all Principal Aquifers for which data were available are shown. Note that analytical detection limits varied among the constituents and that the number of samples for a constituent can vary greatly between Principal Aquifers. The data used in this appendix and boxplots for additional constituents are available at <http://pubs.usgs.gov/circ/1360/>.

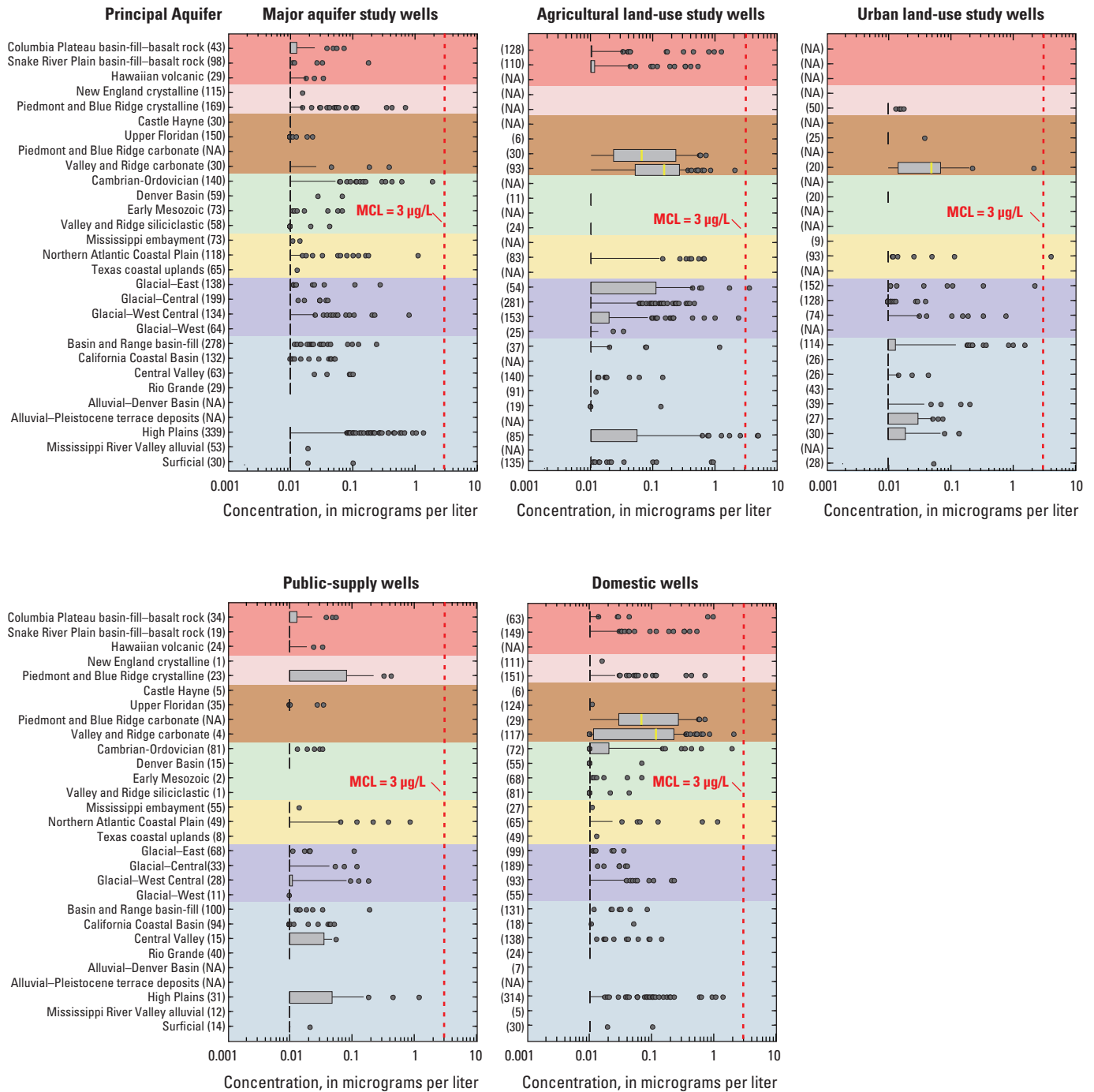
** Note: Two of the Principal Aquifers in this group include limited samples from basin-fill aquifers within the extent of the basaltic aquifer.

Arsenic



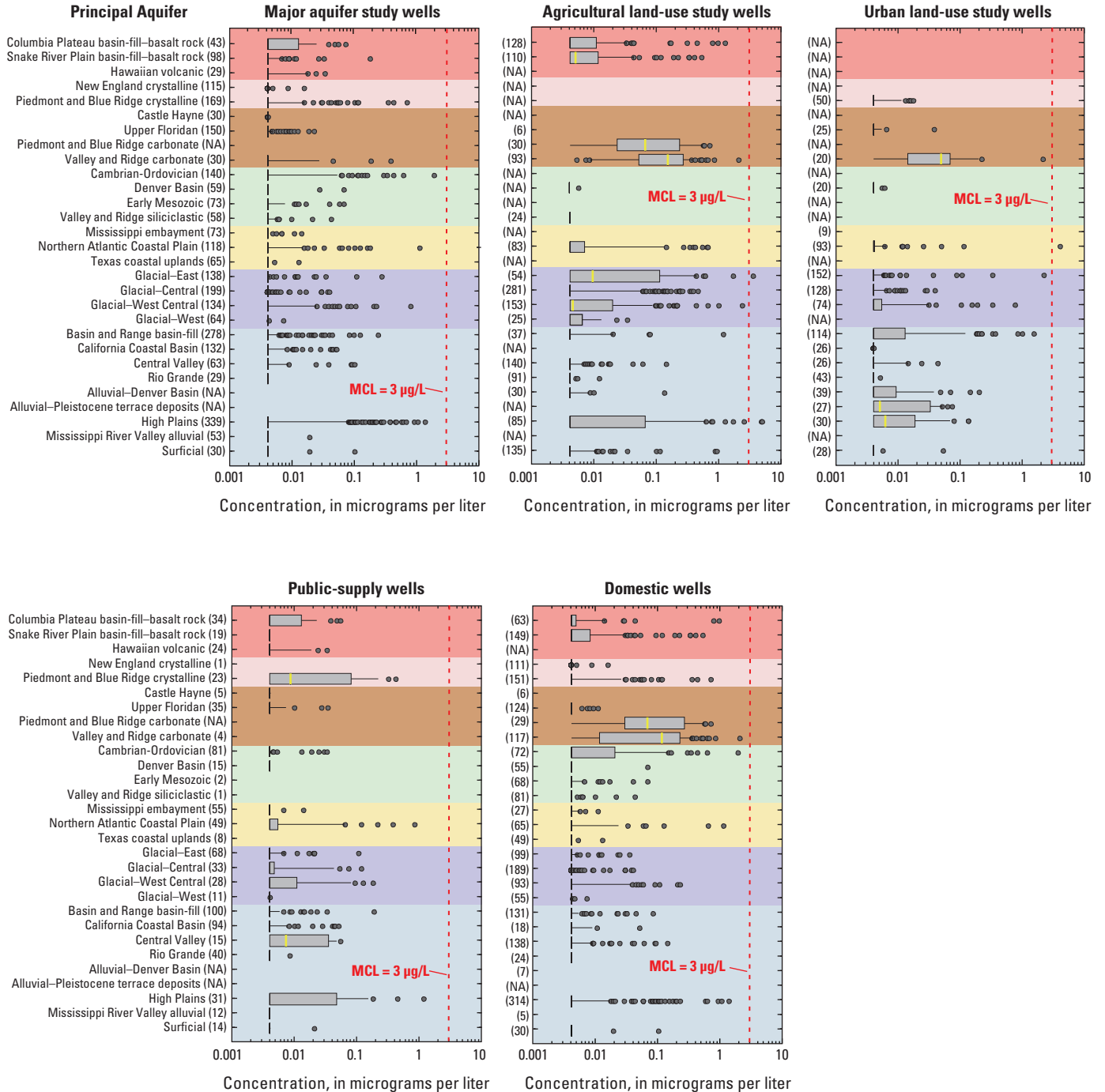
Atrazine

Common assessment level of 0.01 microgram per liter

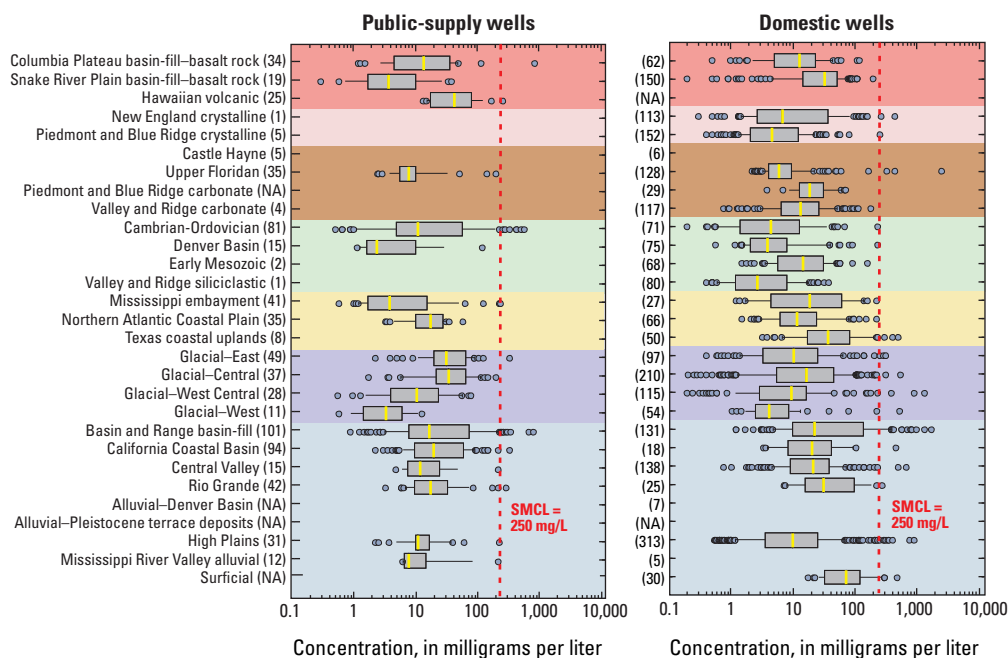
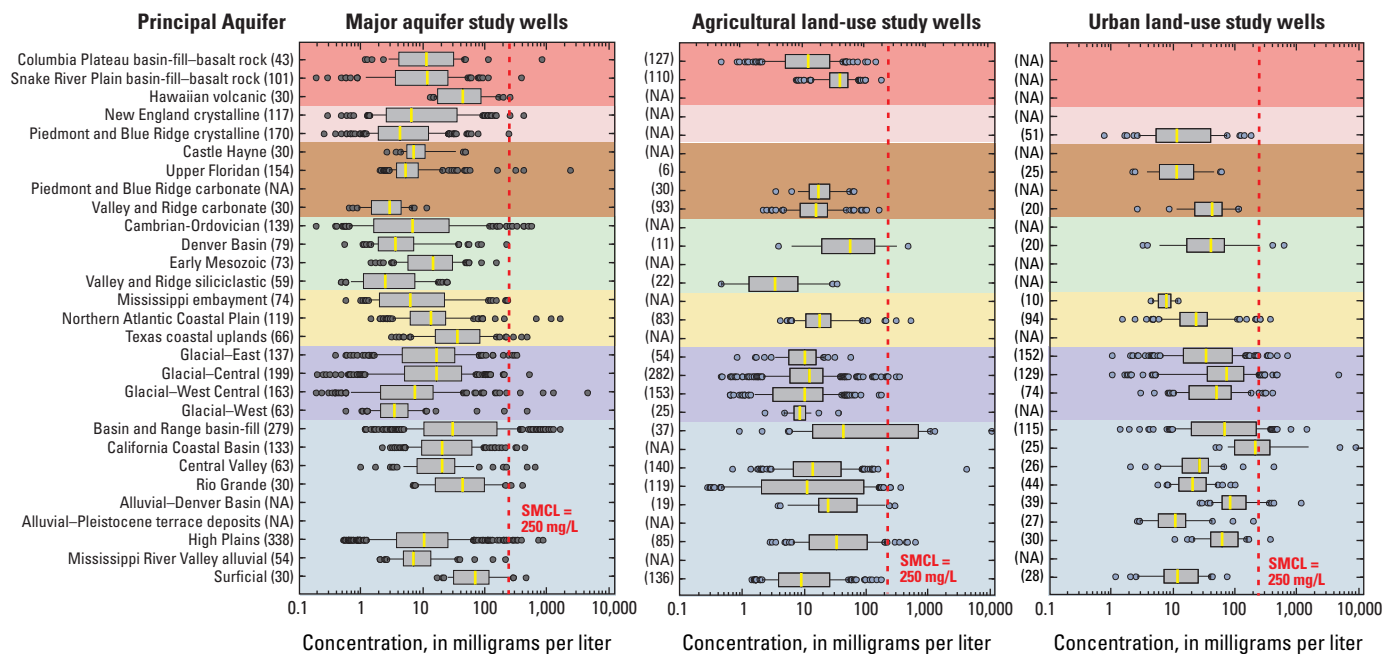


Atrazine

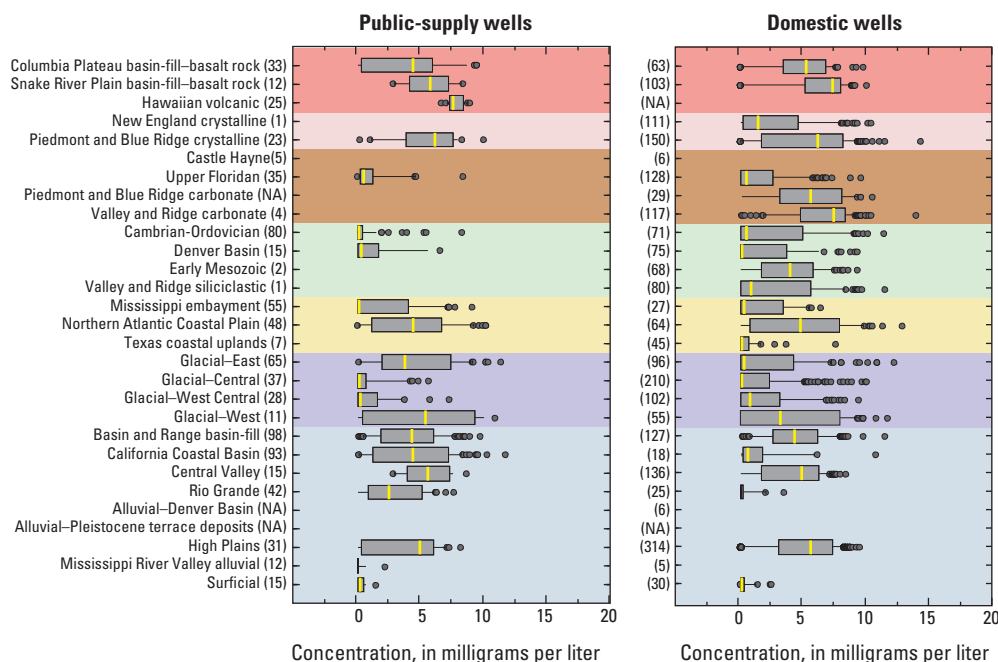
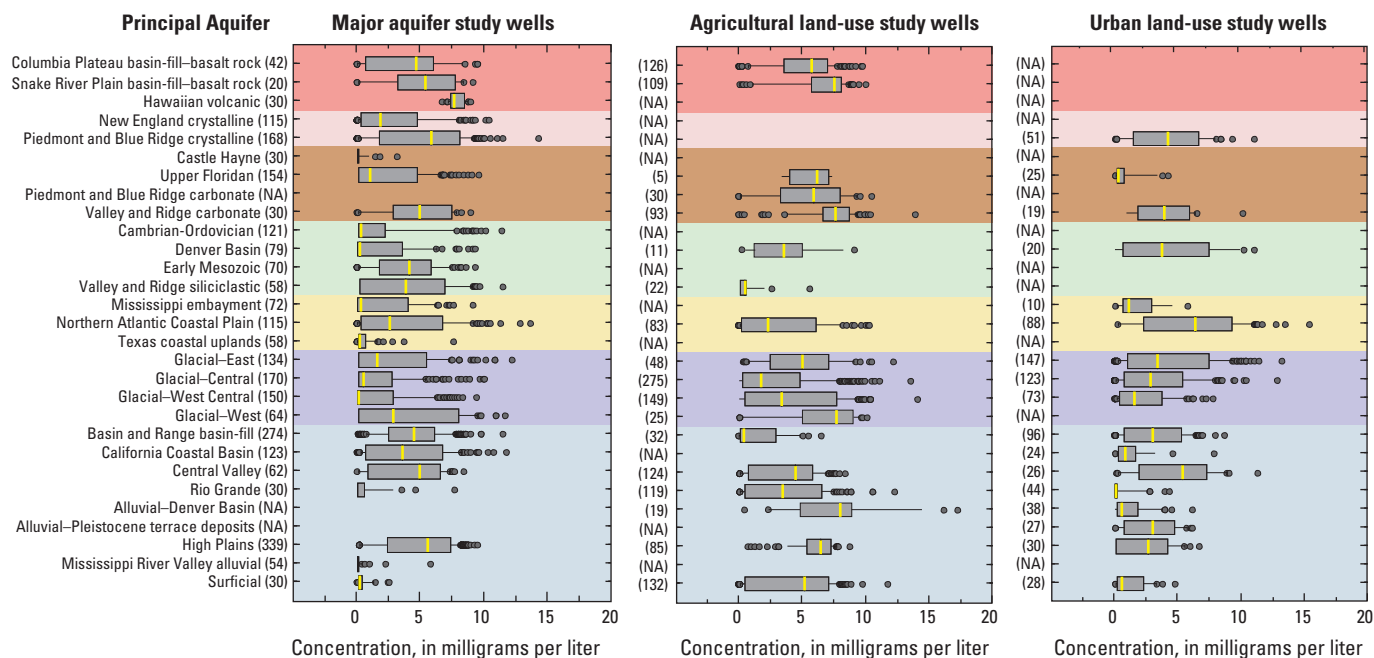
Common assessment level of 0.004 microgram per liter



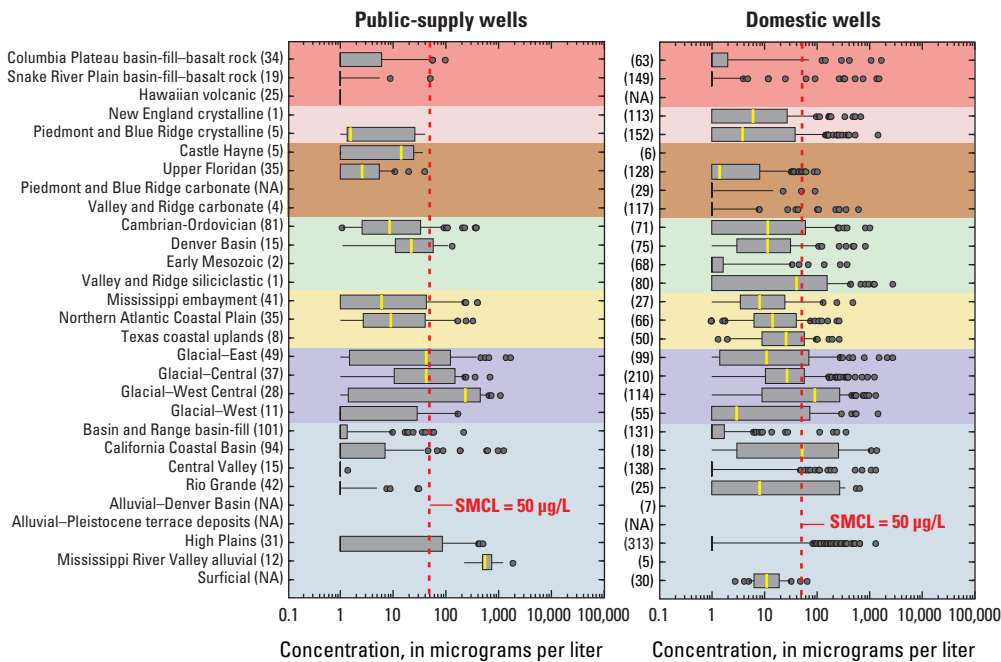
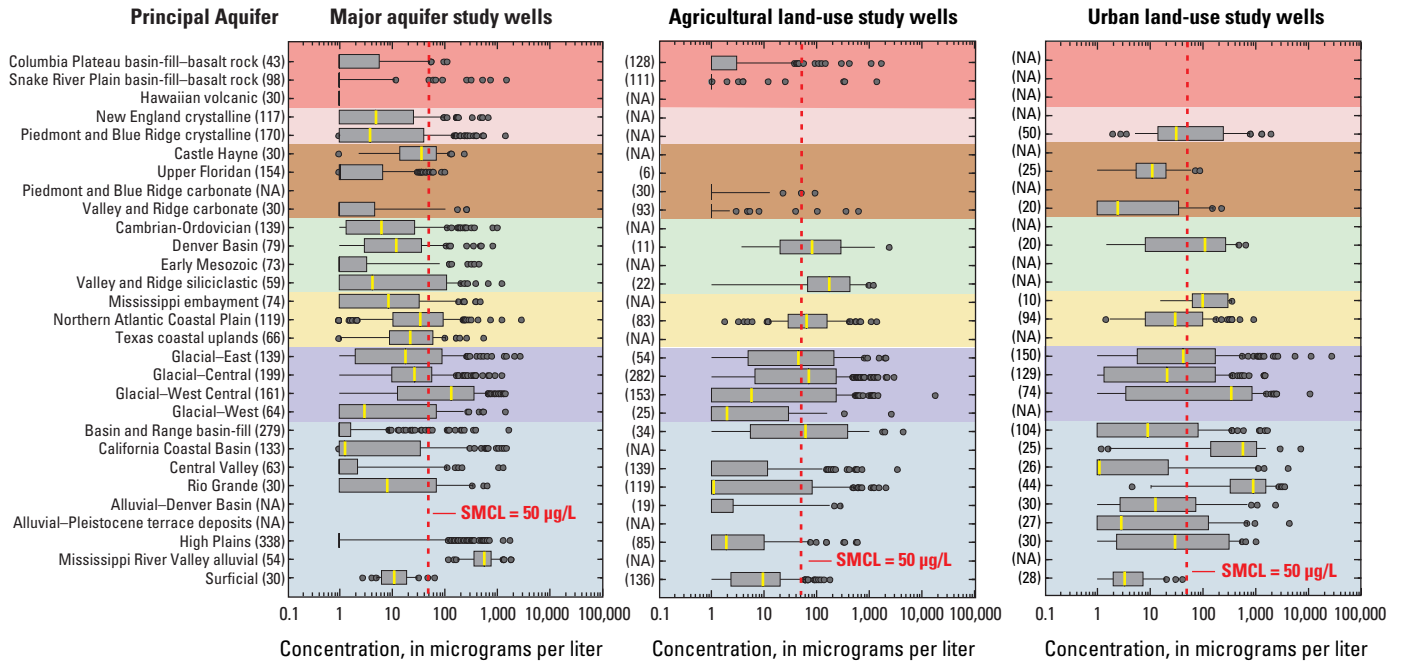
Chloride



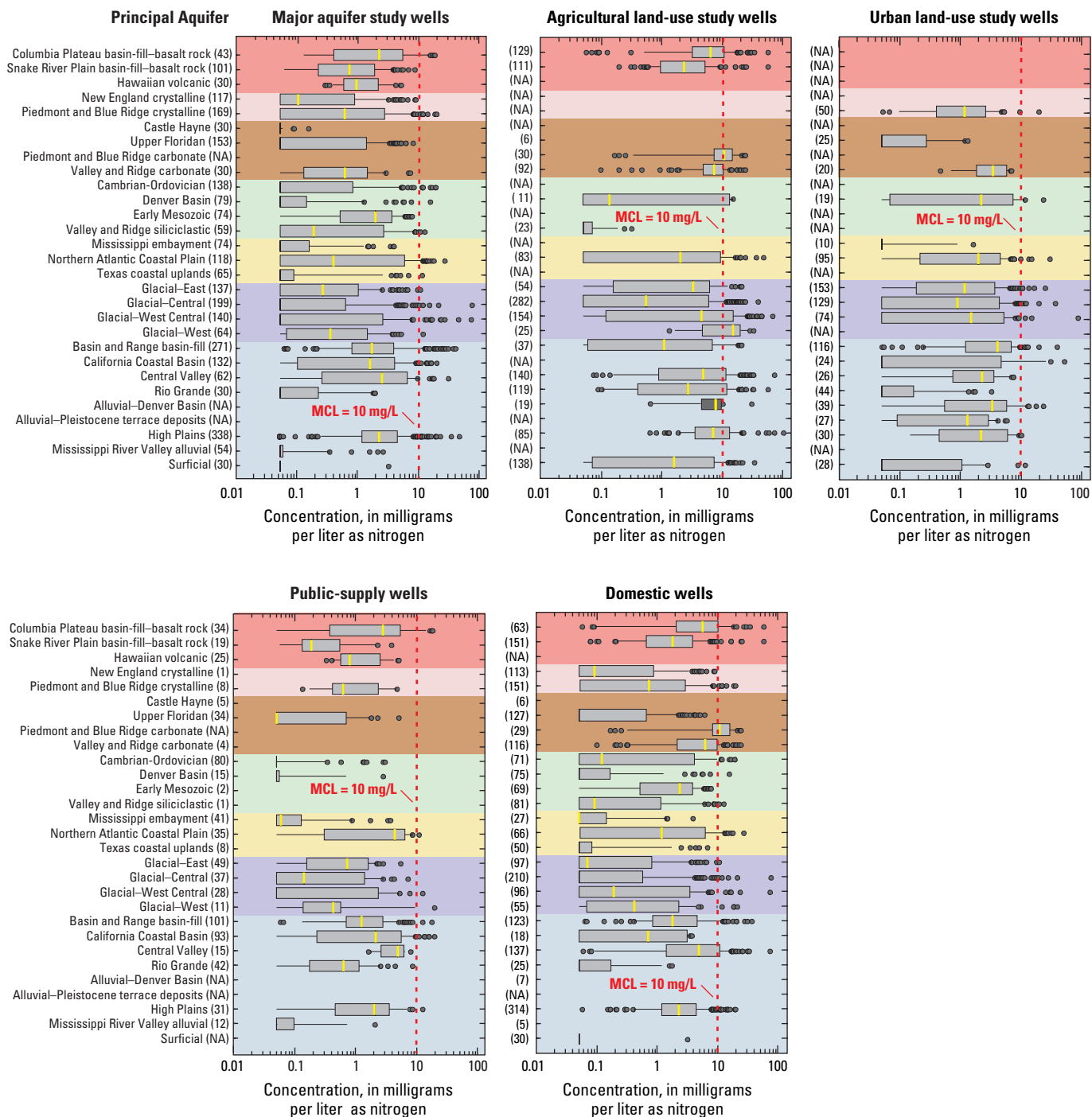
Dissolved oxygen



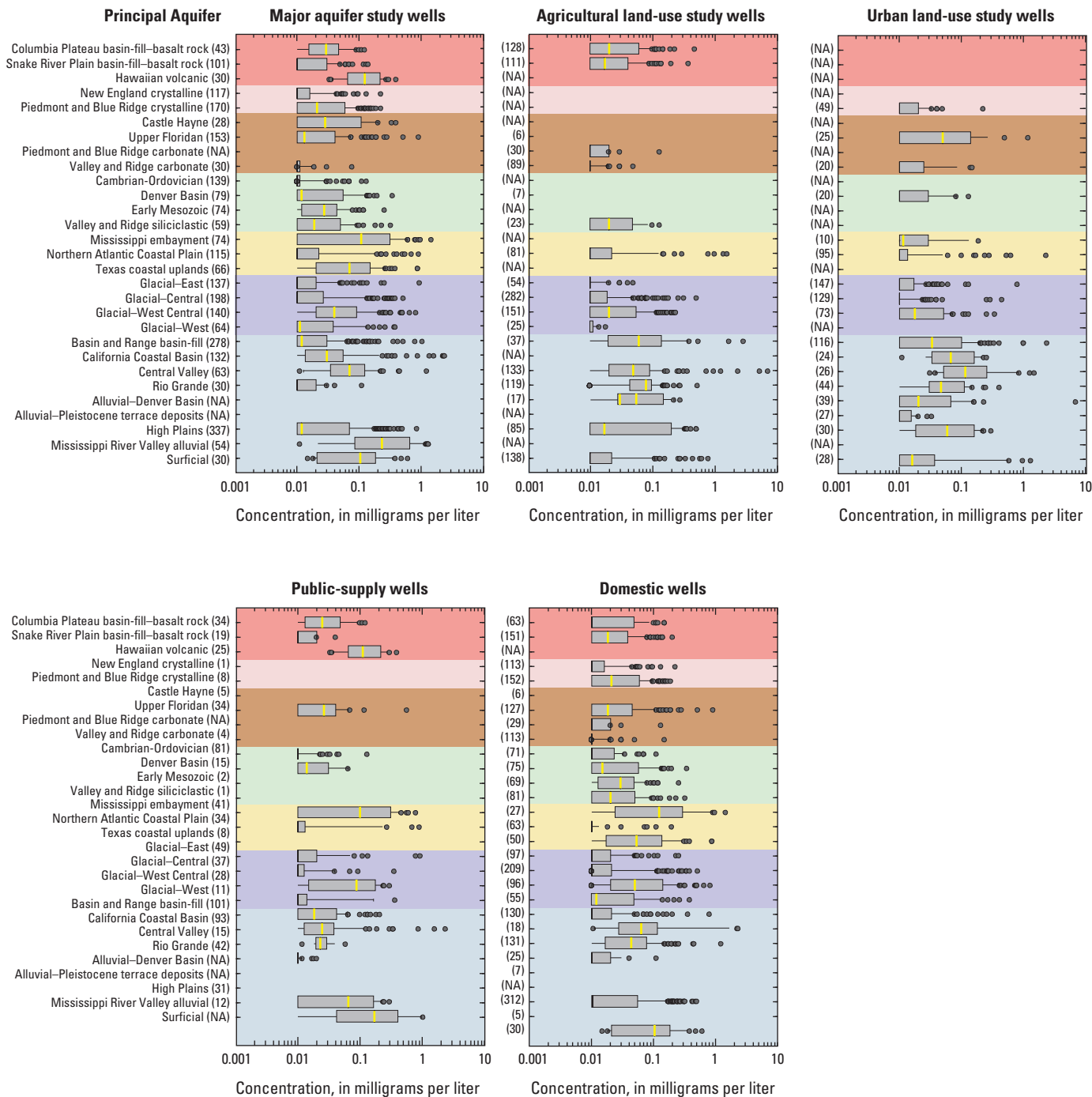
Manganese



Nitrate plus nitrite (nitrate)

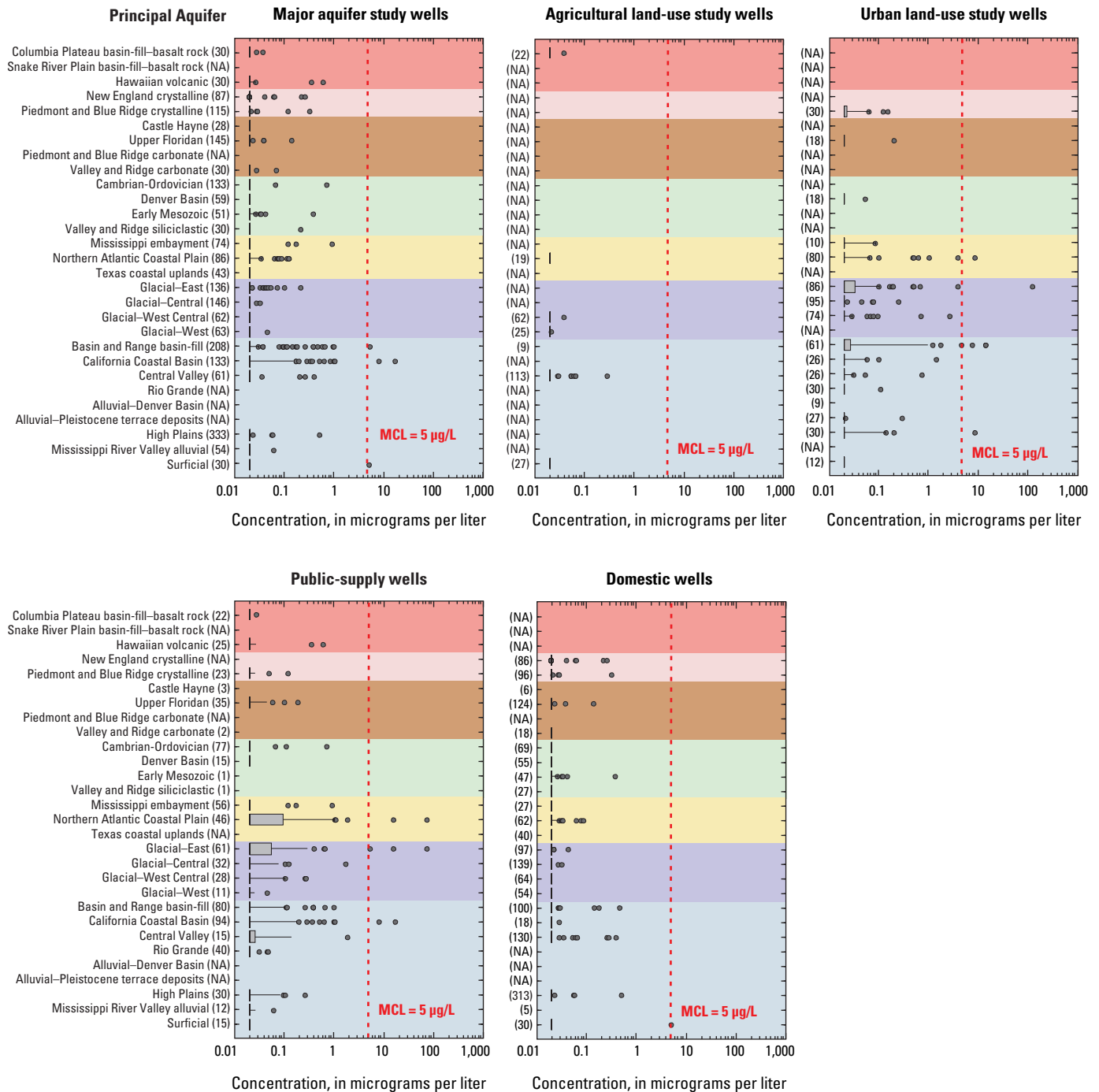


Phosphorus



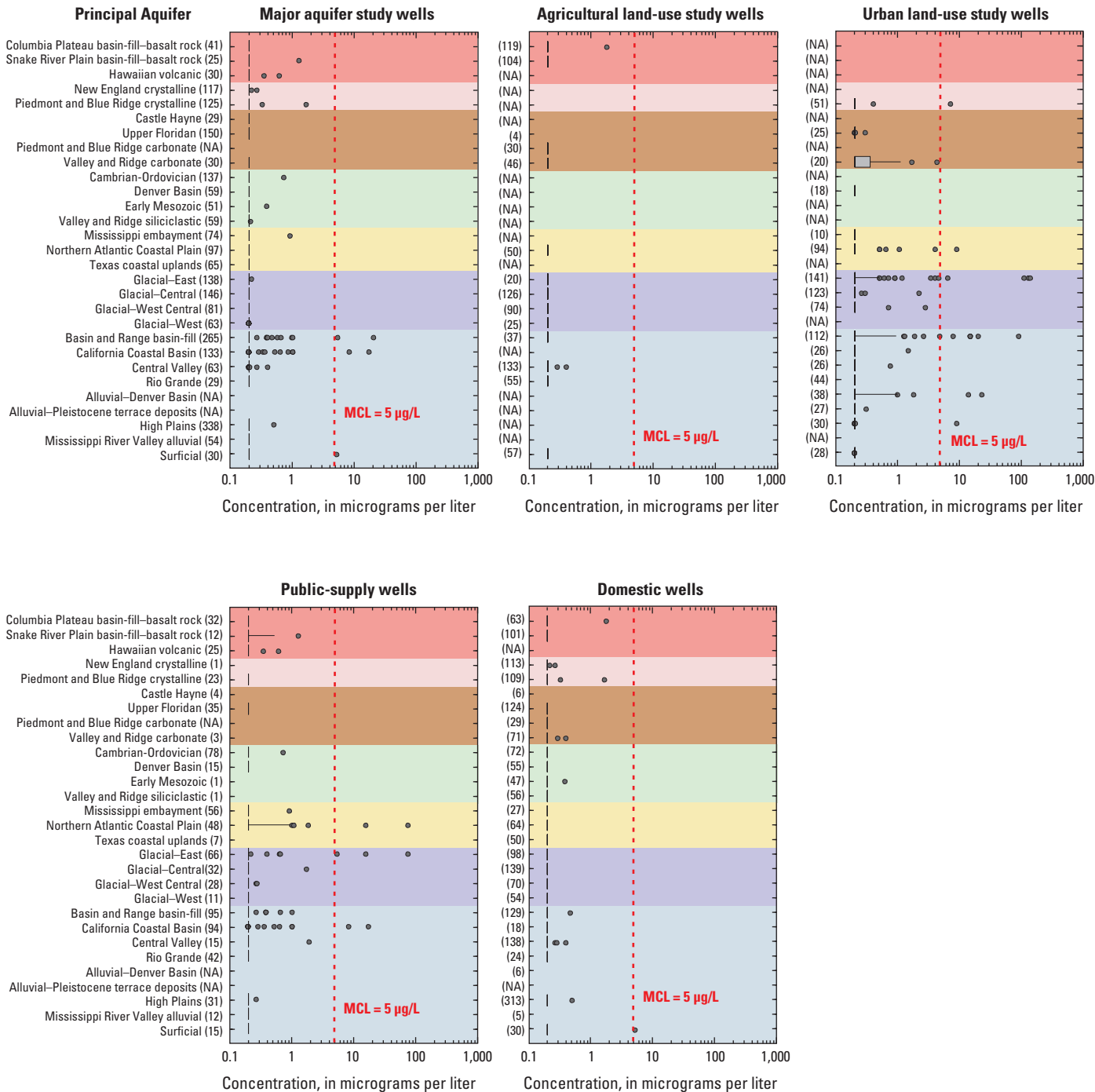
PCE

Common assessment level of 0.02 microgram per liter

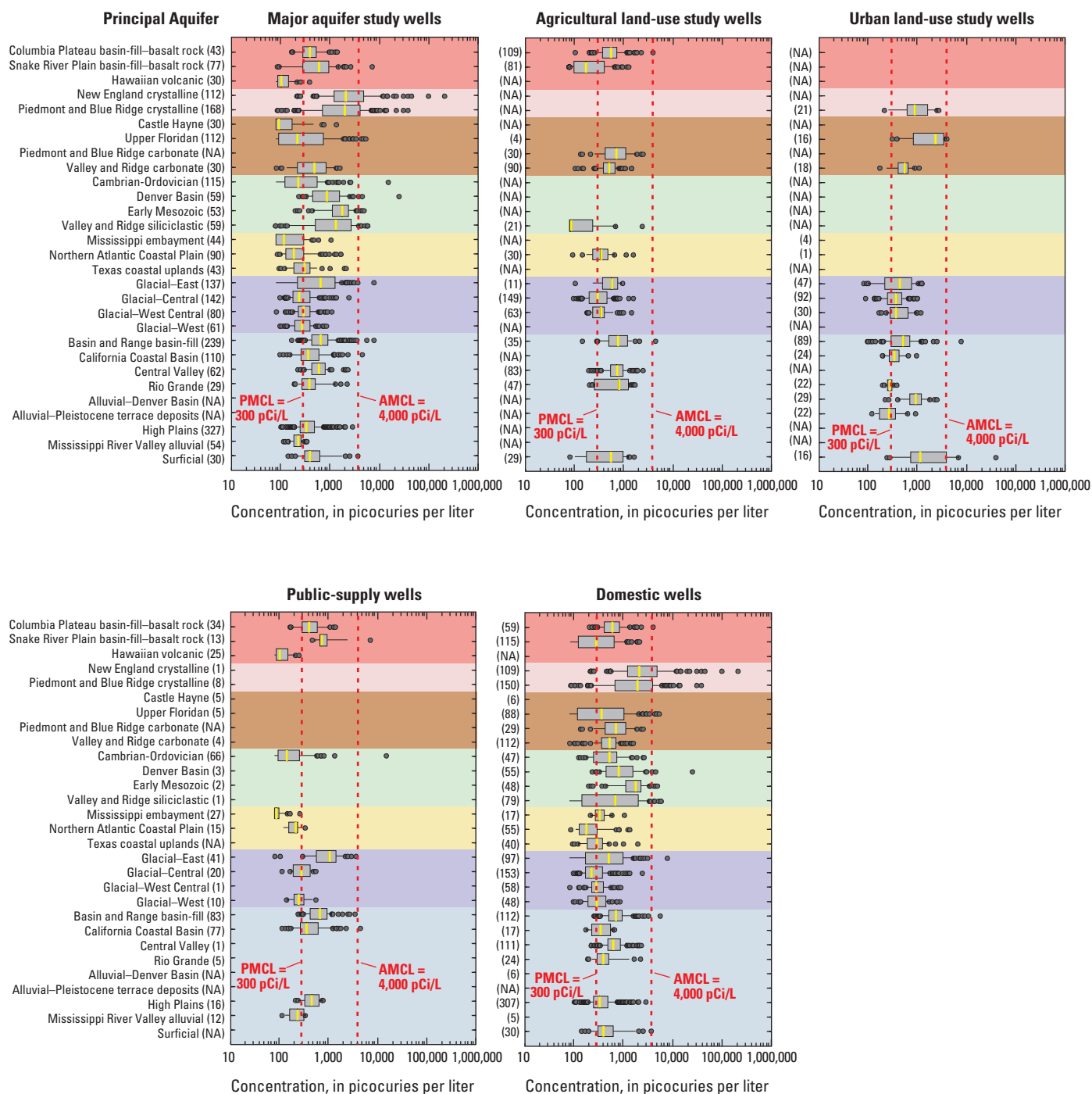


PCE

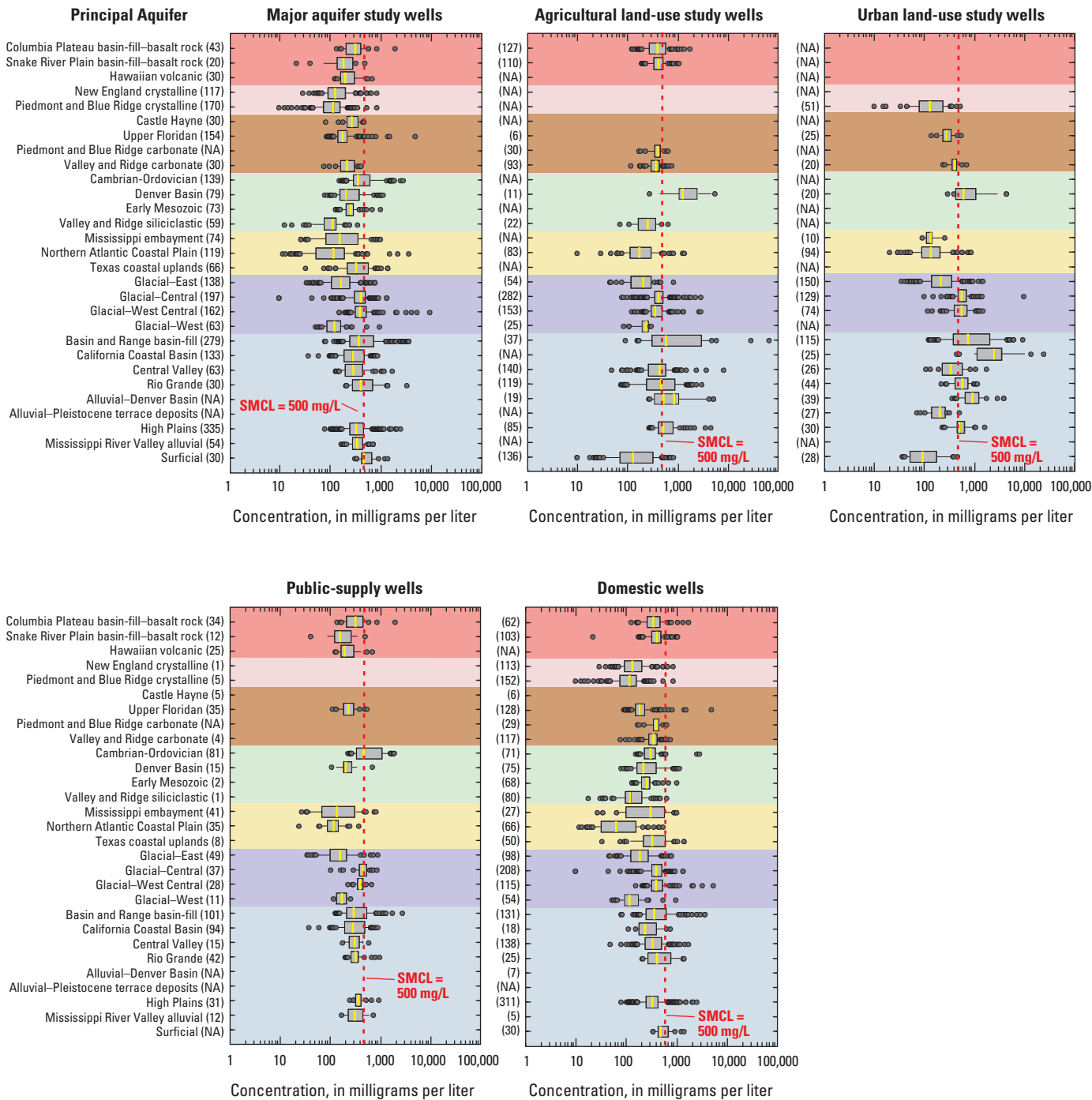
Common assessment level of 0.2 microgram per liter



Radon



Total dissolved solids



Uranium

