



# **Geochemical and Mineralogical Maps for Soils of the Conterminous United States**

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Open-File Report 2014–1082

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U.S. Geological Survey**

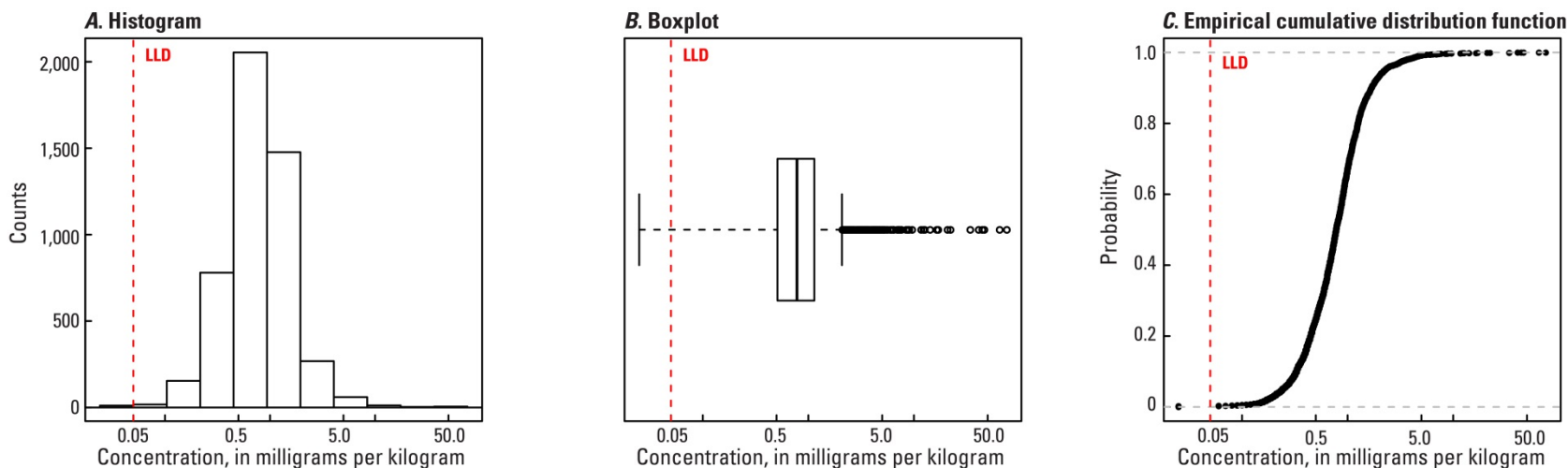
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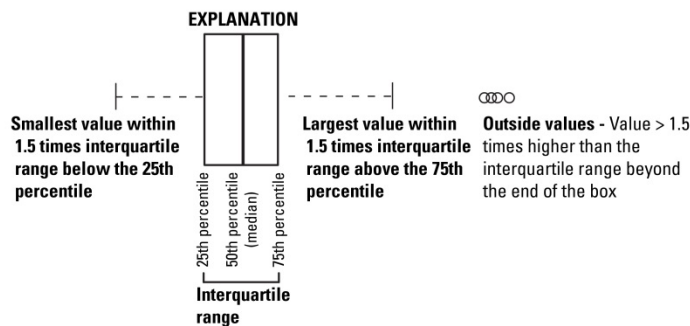
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These maps and statistical graphics were derived from data published in U.S. Geological Survey Data Series 801, downloadable from <http://pubs.usgs.gov/ds/801>.

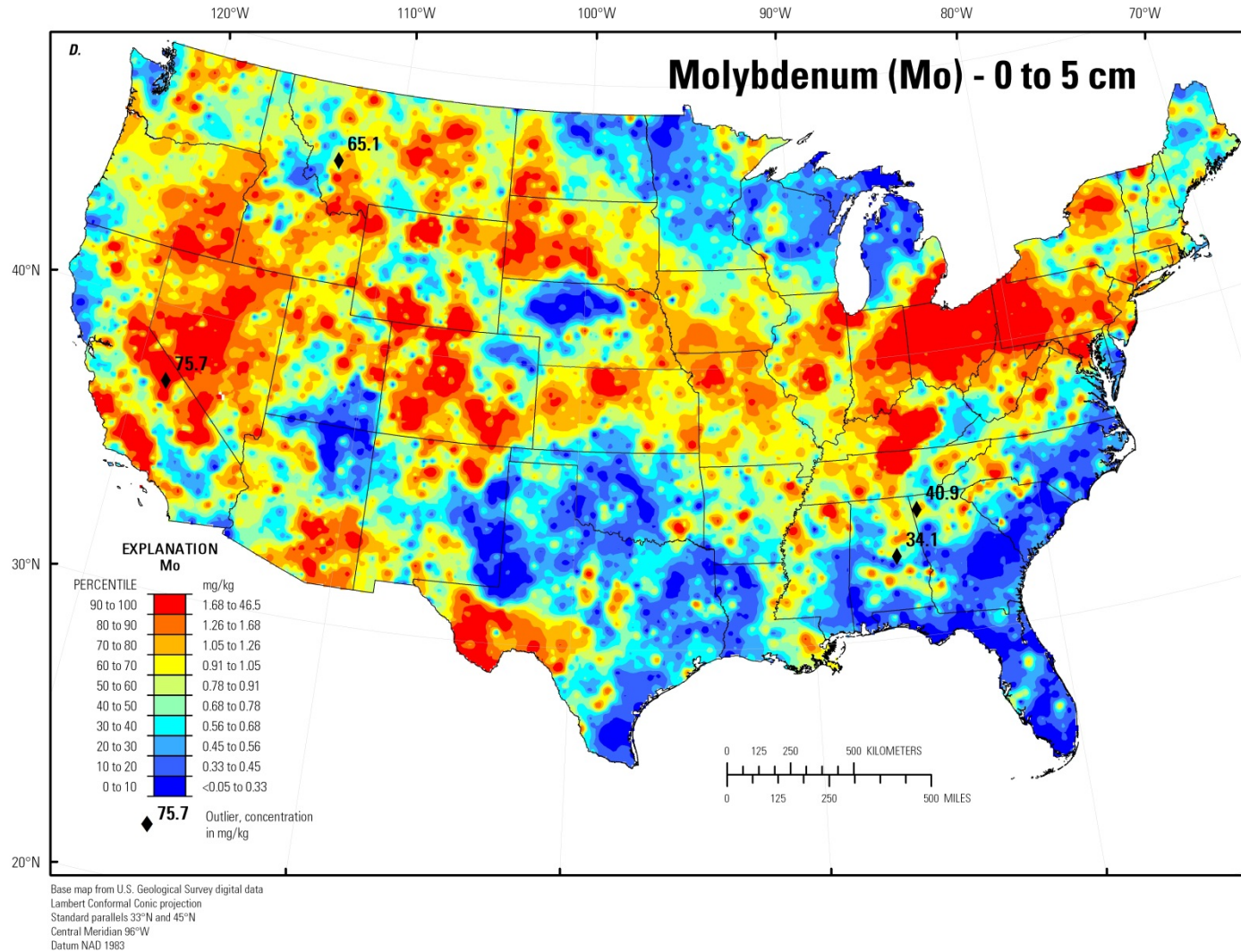
### Molybdenum (Mo) in soil collected from a depth of 0 to 5 centimeters



Number of samples = 4,841  
 LLD = 0.05 milligrams per kilogram  
 Number below LLD = 11  
 Minimum = <0.05 milligrams per kilogram  
 5 percentile = 0.24 milligrams per kilogram  
 25 percentile = 0.51 milligrams per kilogram  
 50 percentile = 0.78 milligrams per kilogram  
 75 percentile = 1.14 milligrams per kilogram  
 95 percentile = 2.27 milligrams per kilogram  
 Maximum = 75.7 milligrams per kilogram  
 MAD = 0.46 milligrams per kilogram  
 Robust CV = 58.9 %

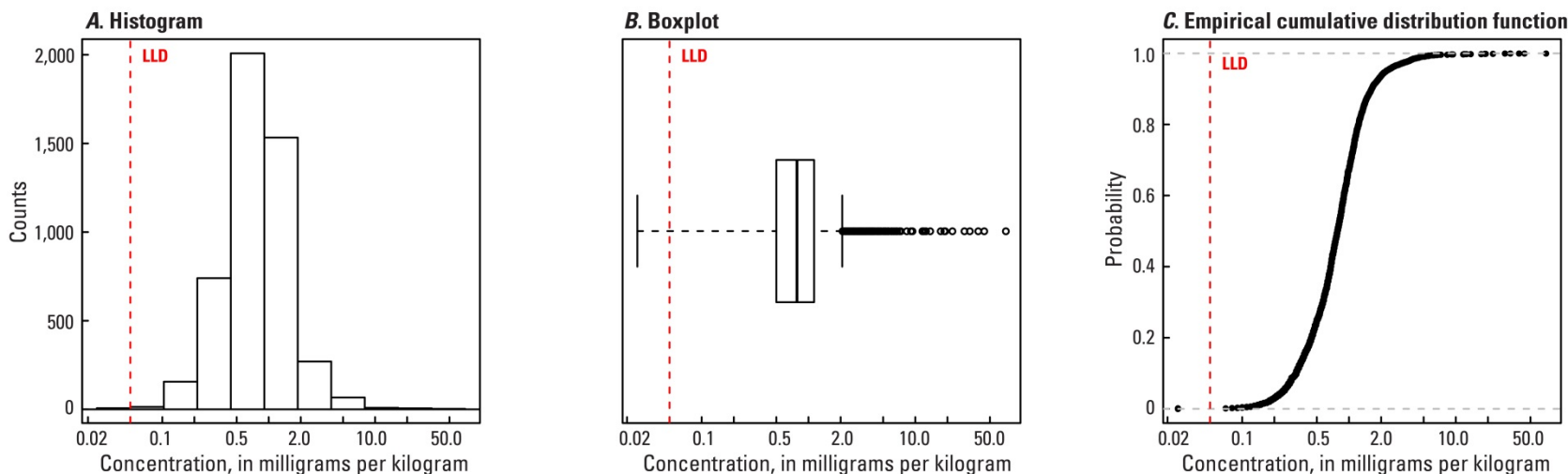


**Figure 74.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of molybdenum (Mo) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).

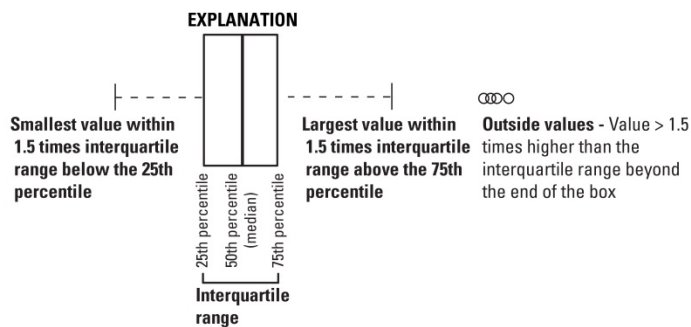


**Figure 74.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of molybdenum (Mo) in surface soils collected from a depth of 0 to 5 centimeters, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram; cm, centimeters).—Continued

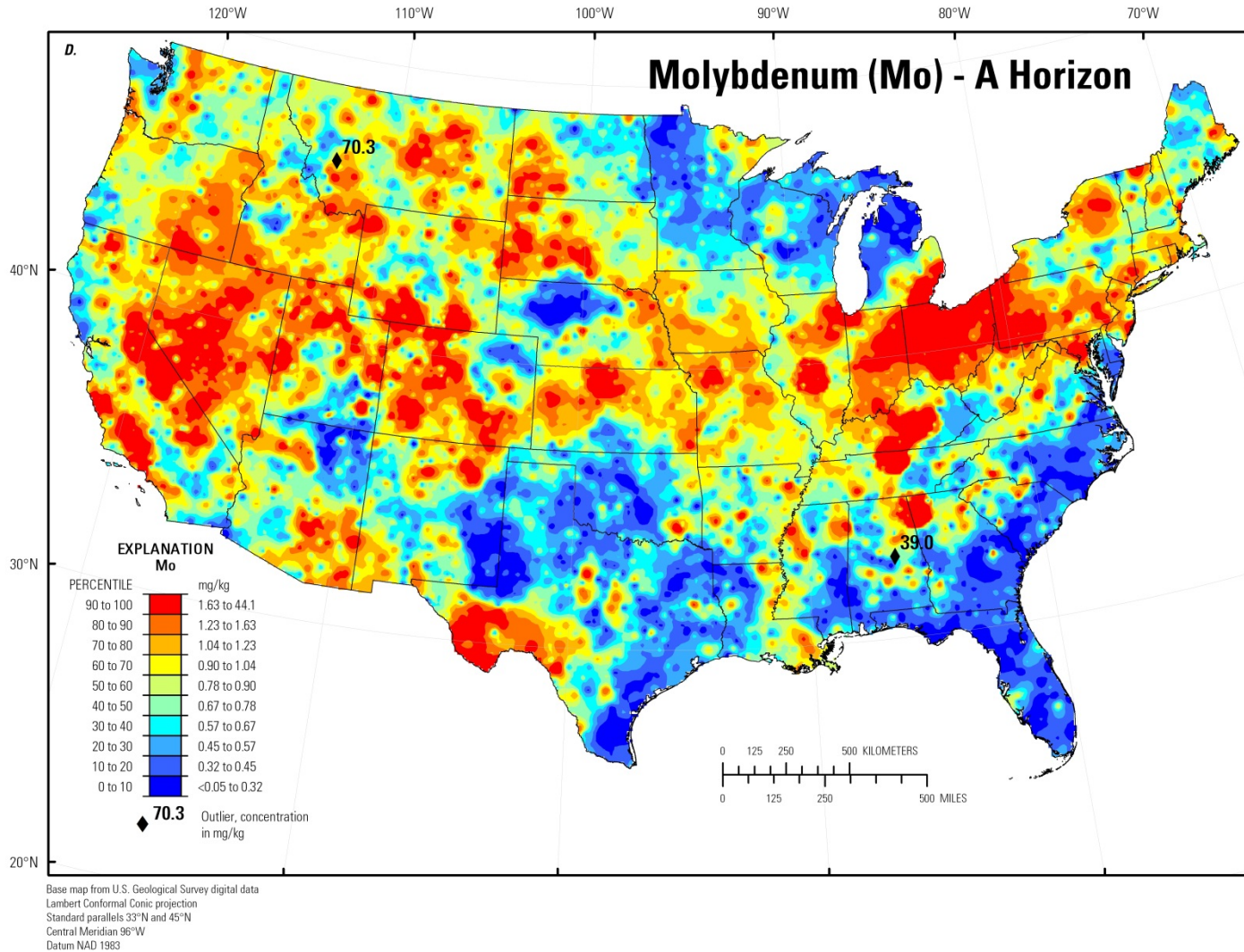
## Molybdenum (Mo) in soil A horizon



Number of samples = 4,813  
 LLD = 0.05 milligrams per kilogram  
 Number below LLD = 7  
 Minimum = <0.05 milligrams per kilogram  
 5 percentile = 0.24 milligrams per kilogram  
 25 percentile = 0.50 milligrams per kilogram  
 50 percentile = 0.78 milligrams per kilogram  
 75 percentile = 1.13 milligrams per kilogram  
 95 percentile = 2.22 milligrams per kilogram  
 Maximum = 70.3 milligrams per kilogram  
 MAD = 0.445 milligrams per kilogram  
 Robust CV = 57 %

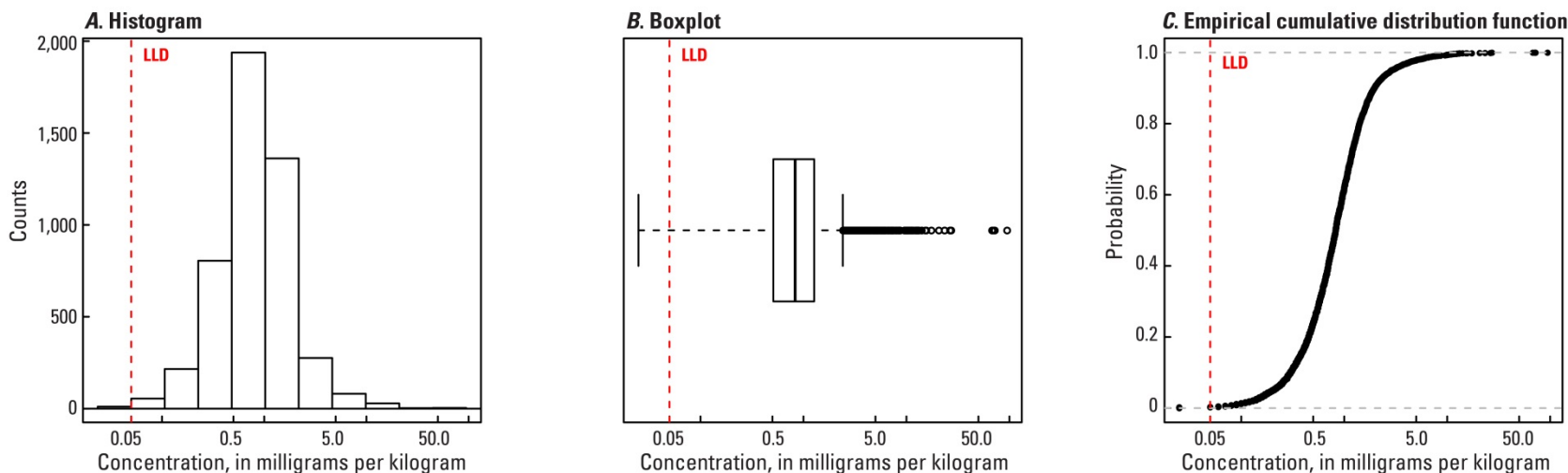


**Figure 75.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of molybdenum (Mo) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).

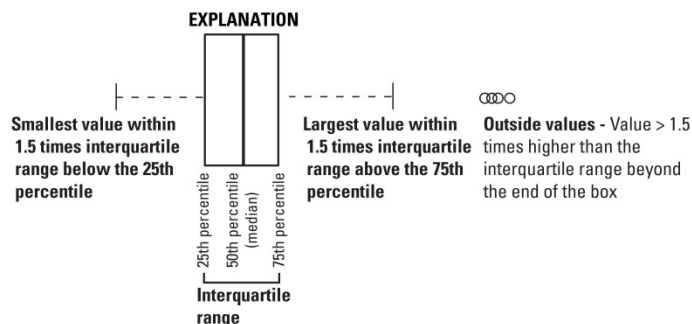


**Figure 75.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of molybdenum (Mo) in the soil A horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).—Continued

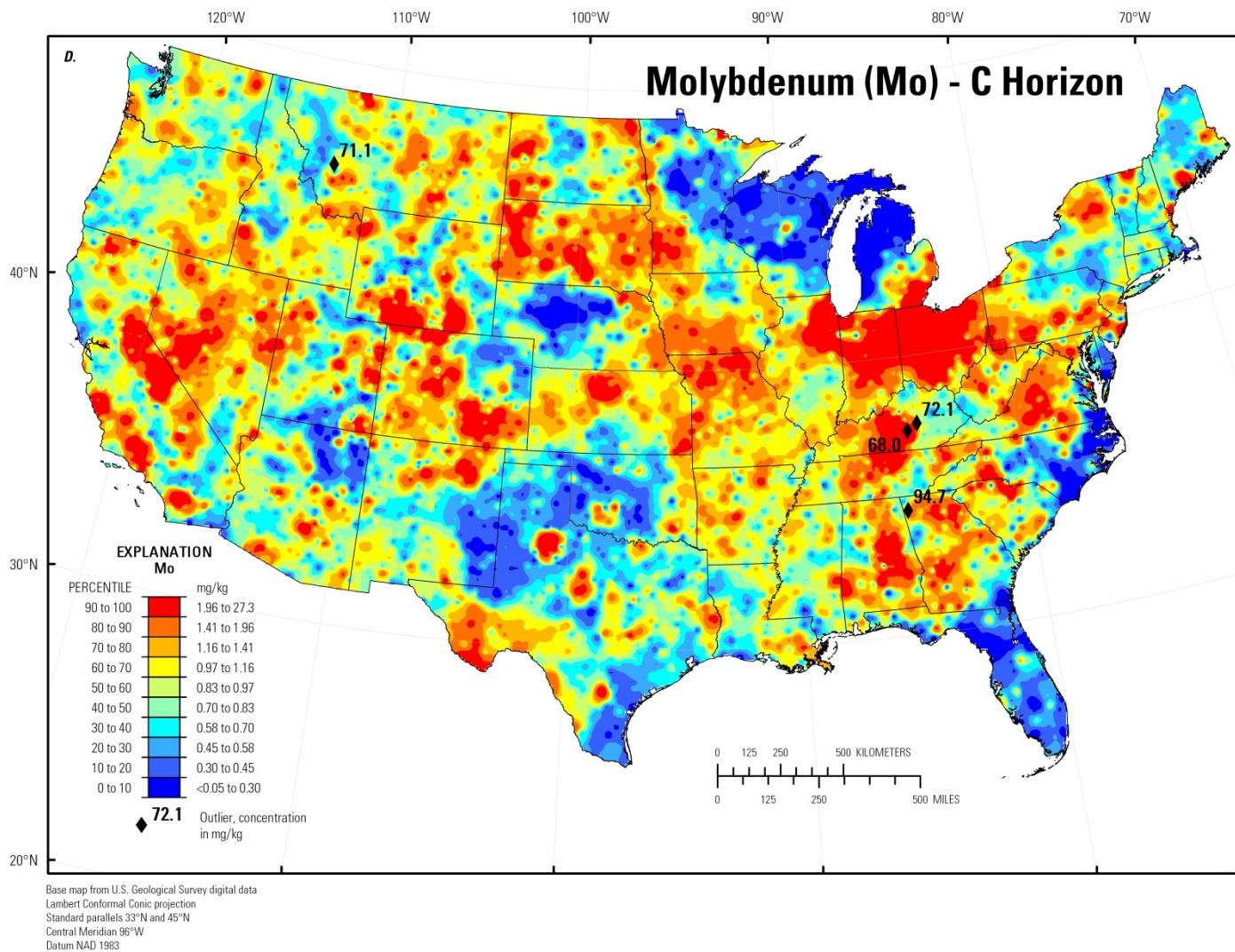
## Molybdenum (Mo) in soil C horizon



Number of samples = 4,780  
 LLD = 0.05 milligrams per kilogram  
 Number below LLD = 11  
 Minimum = <0.05 milligrams per kilogram  
 5 percentile = 0.20 milligrams per kilogram  
 25 percentile = 0.51 milligrams per kilogram  
 50 percentile = 0.83 milligrams per kilogram  
 75 percentile = 1.27 milligrams per kilogram  
 95 percentile = 2.88 milligrams per kilogram  
 Maximum = 94.70 milligrams per kilogram  
 MAD = 0.534 milligrams per kilogram  
 Robust CV = 64.3 %



**Figure 76.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of molybdenum (Mo) in the soil C horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).



**Figure 76.** A, Histogram and summary statistics; B, Boxplot; C, Empirical cumulative distribution function; and D, Distribution of molybdenum (Mo) in the soil C horizon, conterminous United States (LLD, lower limit of determination; MAD, median absolute deviation; CV, coefficient of variation; mg/kg, milligrams per kilogram).—Continued