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Quiz 1

The data provided by Water Atlas on lake Okaloacoochee was mainly the concentration of chemicals dissolved over a period of time. The concentration of chemicals appeared to fluctuate significantly in short intervals over the span of months, but in terms of years, average concentration of chemicals on average slowly changed.

The following parameters (converted to uppercase) were sampled the most with the number to the left denoting number of times sampled:

126 TP_UGL

107 DO_MGL

107 COND_UMHOCM

105 TEMPW_F

105 TEMPW_C

105 PH

The following parameters were sampled the least:

5 SUCRALOSE_UG/L

5 MCPP_UGL

5 LINURON_UGL

5 GLYPHOSATE_UGL

5 ENDOTHALL_UGL

5 DIURON_UGL

5 24D_UGL

1 PARAMETER

1 MN_UGL

1 BOD5_MGL

The value of water pH and TP_UGL (phosphorus) appear to have a positive correlation. This is because phosphorus is an acid. Nickel and arsenic concentrations have a positive correlation. Possibly this could be due to a possible increase in manufactured waste dumped in the water. Kjeldahl nitrogen, and regular dissolved oxygen positively correlate, since both values relate to nitrogen.

The data could answer whether it is safe to swim in the water, since it seems to hint at possible times chemicals such as nickel and arsenic could have been dumped into the water.

