ENGR 13300 Fall 2020

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Section numb	
Assignment	Ex3_Team_Task 1

I/We have not used material obtained from any other unauthorized source, either modified or unmodified. Neither have I/we provided access to my/our work to another. The solution I/we am/are submitting is my/our own original work.

Problem Des we are to use the excel built in function to determine the descriptive statistics for the data.

Input Section:

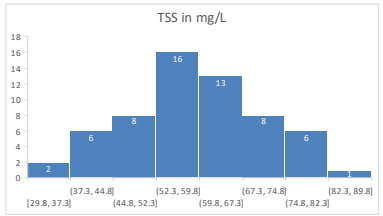
TSS in mg/L
42.4
65.7
29.8
58.7
52.1
55.8
57
68.7
67.3
67.3
54.3
54
73.1
81.3
59.9
56.9
62.2
69.9
66.9
59
56.3
43.3
57.4
45.3
80.1
49.7
42.8
42.4
59.6
65.8
61.4
64
64.2
72.6
72.5
46.1
53.1
56.1
67.2
70.7
42.6
77.4
54.7
57.1
77.3
39.3
76.4
59.3
51.1
73.8
61.4
73.1
77.3
48.5
89.8
50.7
52
59.6
66.1
31.6

Calculation Section:

minimum	29.8
maximum	89.8
range	60
mean	59.8666667
median	59.45
mode	42.4
variance	156.194463
standard deviation	12.4977783
Skewness	-0.1190194

Histogram calculations

Number of bins	8
Width of bins	7.5



Output Section:

a) How did you choose the number of bins for the histogram?
Sqrt(Count(A17:A76)) and then round to 8

b) Indiana, like many other states, does not have a water quality standard for TSS. Review the information on TSS at http://www.in.gov/idem/nps/3484.htm. Does this lake contain reasonable amounts of suspended solids, or should action be taken to reduce the concentration of TSS? Explain your reasoning and cite in APA format any additional sources you used.

I think action should be taken because the normal range is 25-80 and in this experiment, the range iis 60, while the normal range should be 55. So yes, I think action should be taken because this concentration affects fish concentrations.