Assignment Ex2_Team Task 3

Problem Description

Input Section:

Chloride concentration (grains/gallon US)	Roadway Concentration in Watershed (%)
0.257038456	0.19
0.385557685	0.15
0.566652961	0.57
0.619229009	0.7
0.630912575	0.67
0.636754358	0.63
0.689330406	0.47
0.706855755	0.7
0.835374983	0.6
0.858742116	0.78
0.876267465	0.81
1.010628476	0.78
1.121622355	0.69
1.349451896	1.3
1.600648569	1.05
1.618173919	1.06
1.857687026	1.74
2.307504325	1.62

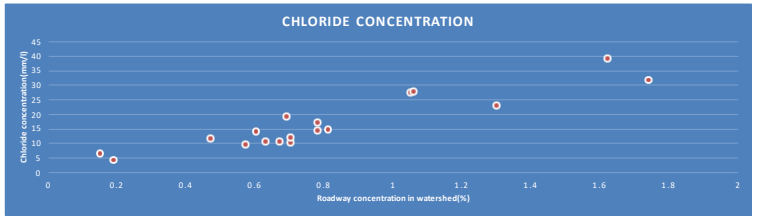
Calculation Section:

Chloride concentration (mm/)
=17.1*$A7
=17.1*$A8
=17.1*$A9
=17.1*$A10
=17.1*$A11
=17.1*$A12
=17.1*$A13
=17.1*$A14
=17.1*$A15
=17.1*$A16
=17.1*$A17
=17.1*$A18
=17.1*$A19
=17.1*$A20
=17.1*$A21
=17.1*$A22
=17.1*$A23
=17.1*$A24

Output Section:

question 3

I would use a scatter plot to determine the relationship between the chloride concentration and roadway concentration in watershed necause the scatter plot shows the correlation between the y axis and x axis, the chloride concentration and roadway concentration in watershed, respectively.



a) Which variable is the independent variable? Which is the dependent variable?

The chloride concentration is the independent variable and the concentration in watershed is the dependent variable

b) What is the relationship between roadway concentration in the watershed and the concentration of chloride in streams?

The higher the chloride concentration, the higher chloride concentration in the watershed

c) If the engineer determines that most of the chloride in the streams is coming from road salt, identify one thing that could be done to reduce the chloride concentrations of streams within the watersheds.

Reduce the road salt application in winter.