Average

0	0.25	0.5	0.75	1
1	1.2	7	6	21
1	1.2	5.9	11	21
1.1	1.2	4	12	21
1	1	5	15	21
0.9	1.9	5	17	21
0.86	1.2	3.5	13	21
=AVERAGE(A5:A10				

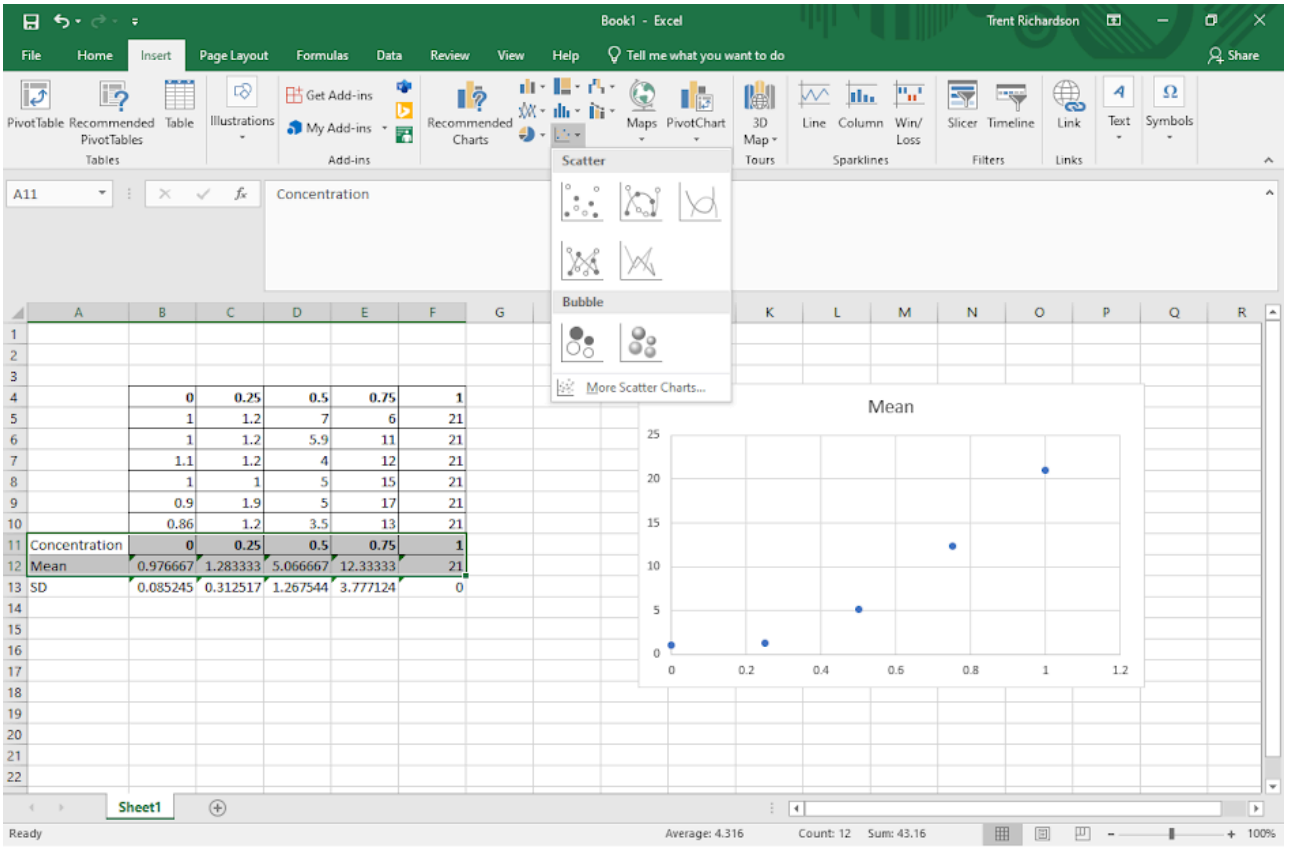
AVERAGE(**number1**, [number2], ...)

SD

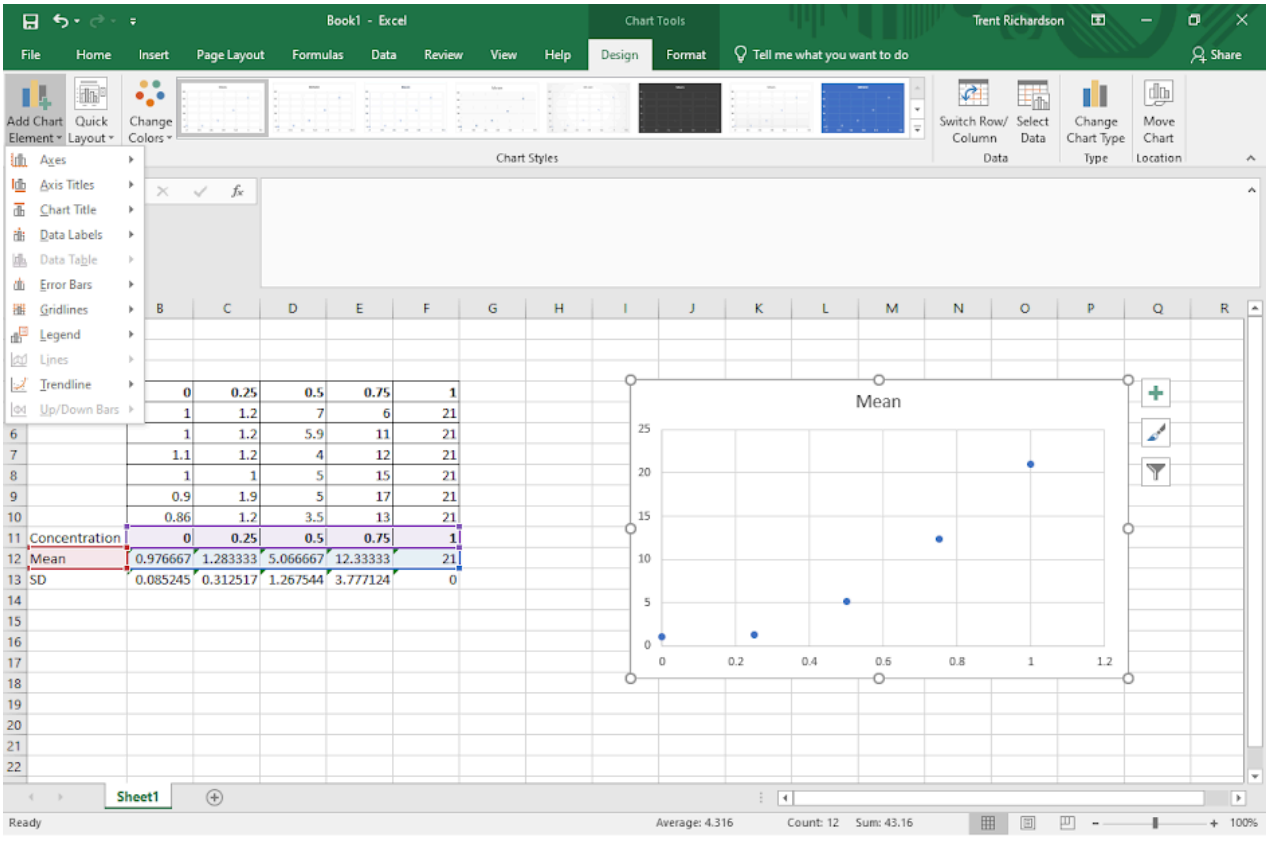
0	0.25	0.5	0.75	1
1	1.2	7	6	21
1	1.2	5.9	11	21
1.1	1.2	4	12	21
1	1	5	15	21
0.9	1.9	5	17	21
0.86	1.2	3.5	13	21
0.976667				
=STDEV.S(B5:B10				

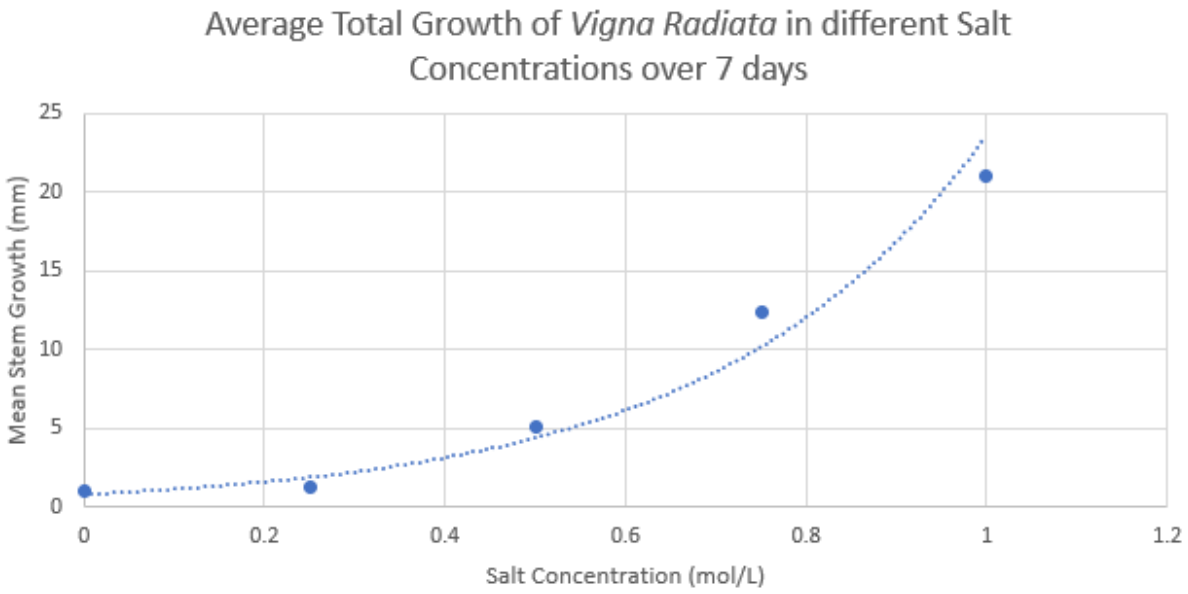
Summary Prep for Graphing

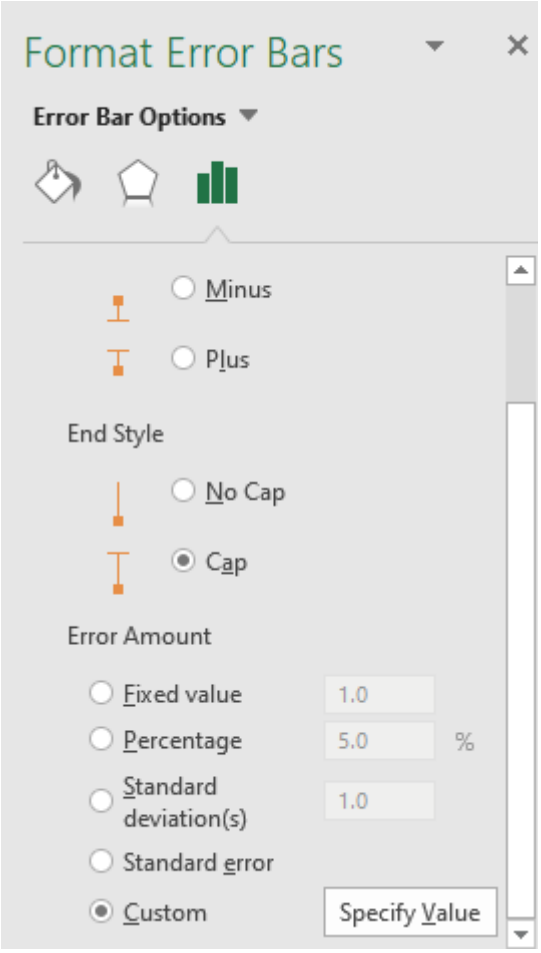
	0	0.25	0.5	0.75	1
	1	1.2	7	6	21
	1	1.2	5.9	11	21
	1.1	1.2	4	12	21
	1	1	5	15	21
	0.9	1.9	5	17	21
	0.86	1.2	3.5	13	21
Concentration	0	0.25	0.5	0.75	1
Mean	0.976667	1.283333	5.066667	12.33333	21
SD	0.085245	0.312517	1.267544	3.777124	0

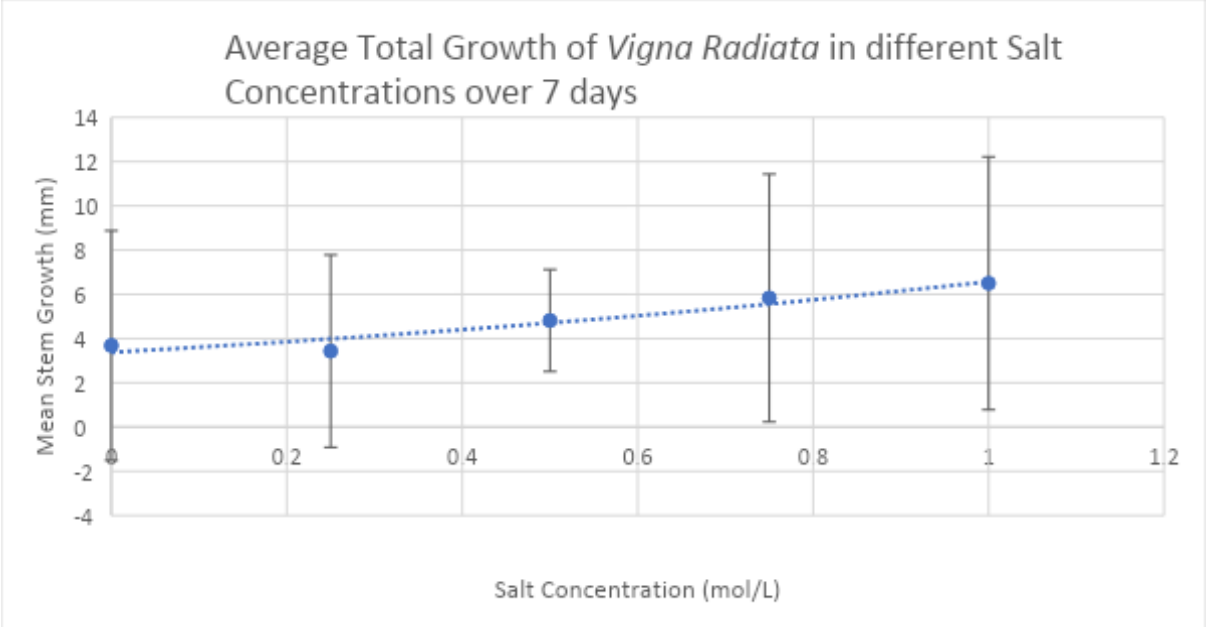


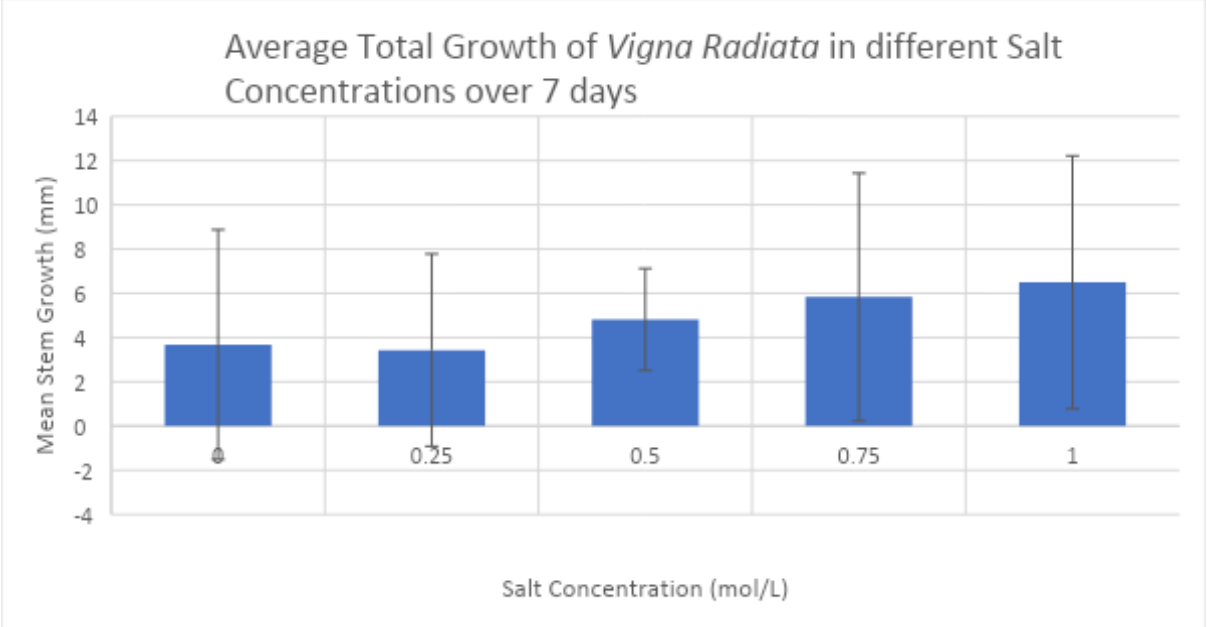
	A	B	C	D	E	F
4		0	0.25	0.5	0.75	1
5		1	1.2	7	6	21
6		1	1.2	5.9	11	21
7		1.1	1.2	4	12	21
8		1	1	5	15	21
9		0.9	1.9	5	17	21
10		0.86	1.2	3.5	13	21
11	Concentration	0	0.25	0.5	0.75	1
12	Mean	0.976667	1.283333	5.066667	12.33333	21
13	SD	0.085245	0.312517	1.267544	3.777124	0

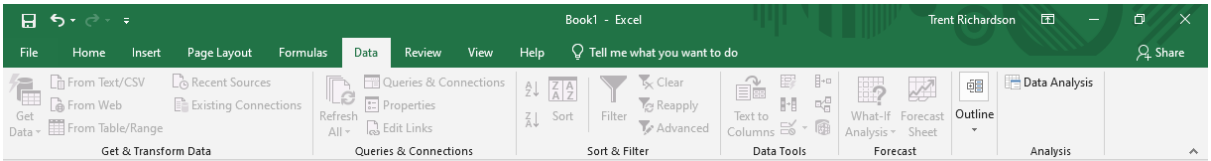


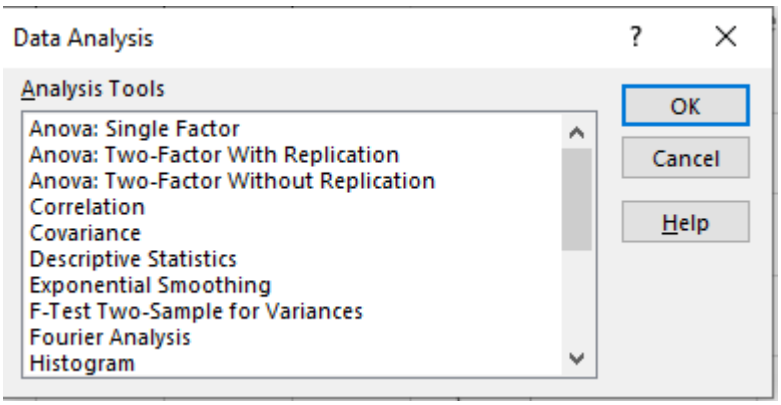

Average Total Growth of *Vigna Radiata* in different Salt Concentrations over 7 days
Mean Stem Growth (mm)
25
20
15
10
5
0
0
0.2
0.4
0.6
0.8
1
1.2
Salt Concentration (mol/L)

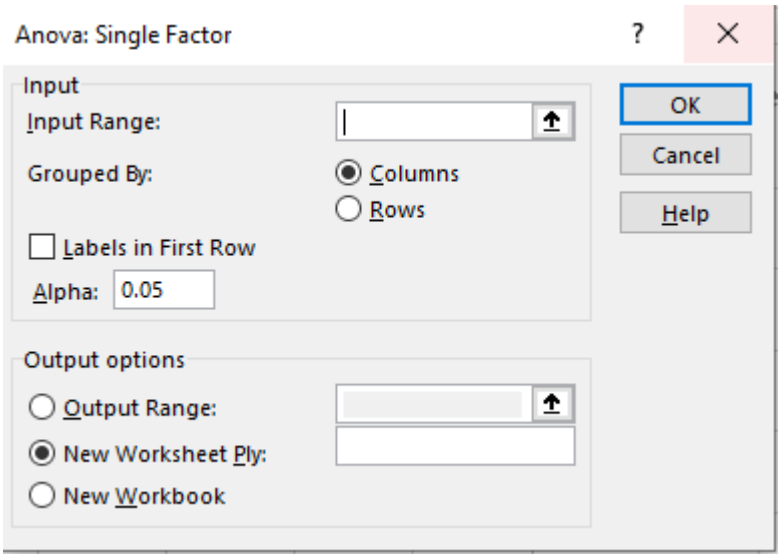

Format Error Bars
Error Bar Options
Minus
Plus
End Style
No Cap
Cap
Error Amount
Fixed value
1.0
Percentage
5.0
%
Standard deviation(s)
1.0
Standard error
Custom
Specify Value


Average Total Growth of *Vigna Radiata* in different Salt Concentrations over 7 days
Mean Stem Growth (mm)
14
12
10
8
6
4
2
0
-2
-4
0.2
0.4
0.6
0.8
1
1.2
Salt Concentration (mol/L)


Average Total Growth of *Vigna Radiata* in different Salt Concentrations over 7 days
Mean Stem Growth (mm)
14
12
10
8
6
4
2
0
-2
-4
0.25
0.5
0.75
1
Salt Concentration (mol/L)


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Reapply
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Text to Columns
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Forecast Sheet
Forecast
Outline
Data Analysis
Analysis





Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
0	6	5.86	0.976667	0.007267
0.25	6	7.7	1.283333	0.097667
0.5	6	30.4	5.066667	1.606667
0.75	6	74	12.33333	14.26667
1	6	126	21	0

ANOVA

ce of Varic	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between (	1744.416	4	436.1039	136.4678	1.35E-16	2.75871
Within Gr	79.89133	25	3.195653			
Total	1824.307	29				

Anova: Single Factor

SUMMARY

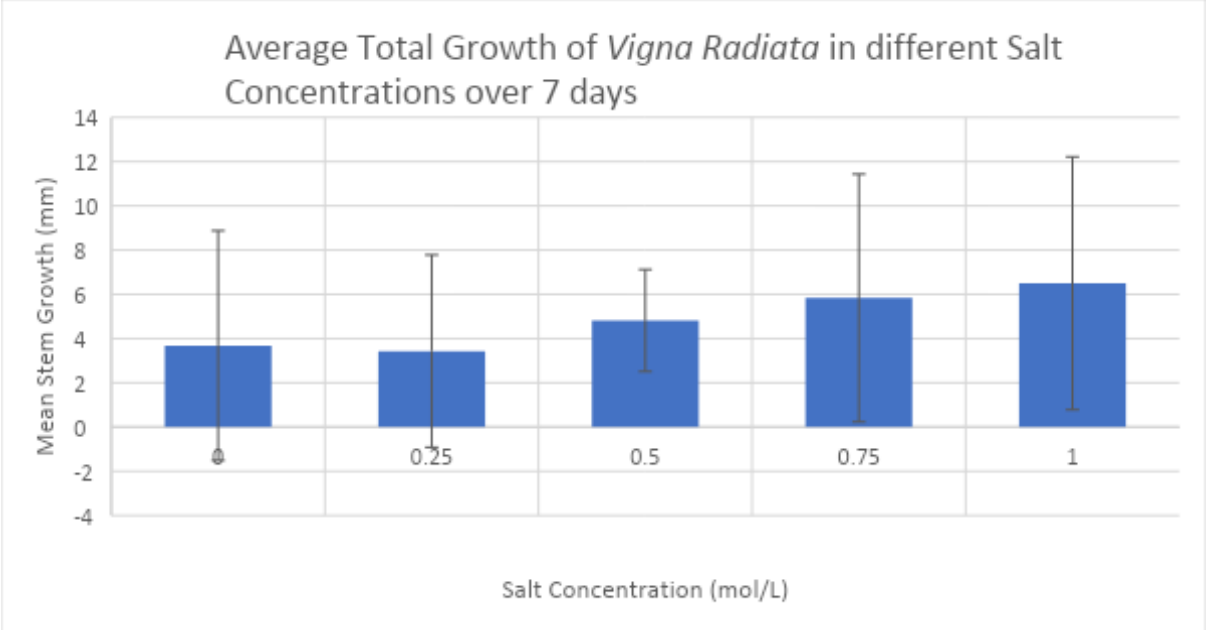
Groups	*Count*	*Sum*	*Average*	*Variance*
0	6	5.86	0.976667	0.007267
0.25	6	7.7	1.283333	0.097667
0.5	6	30.4	5.066667	1.606667
0.75	6	74	12.33333	14.26667
1	6	126	21	0

ANOVA

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	1744.416	4	436.1039	136.4678	0.00000000000000135	2.75871
Within Groups	79.89133	25	3.195653			
Total	1824.307	29				

Different Results

	0	**0.25**	**0.5**	**0.75**	**1**
	1	1.2	1	6	21
	1	1.2	5.9	11	13
	1.1	1.2	4	12	21
	1	1	5	21	21
	0.9	1.9	5	17	21
	4	4	8	13	13
Concentration	**0**	**0.25**	**0.5**	**0.75**	**1**
Mean	1.5	1.75	4.816667	13.33333	18.33333
SD	1.226377	1.144989	2.306874	5.163978	4.131182



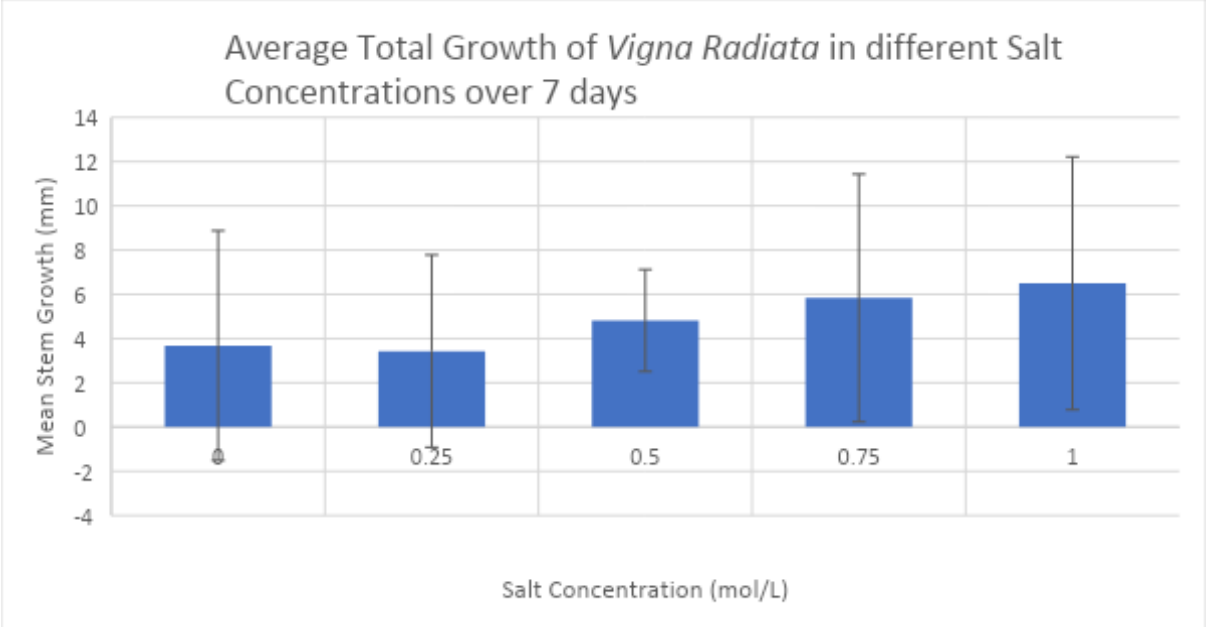
Anova: Single Factor

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
0	6	9	1.5	1.504
0.25	6	10.5	1.75	1.311
0.5	6	28.9	4.816667	5.321667
0.75	6	80	13.33333	26.66667
1	6	110	18.33333	17.06667

ANOVA

ce of Varic	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between (	1359.925	4	339.9812	32.77243	0.000000001311	2.75871
Within Gr	259.35	25	10.374			
Total	1619.275	29				



Anova: Single Factor

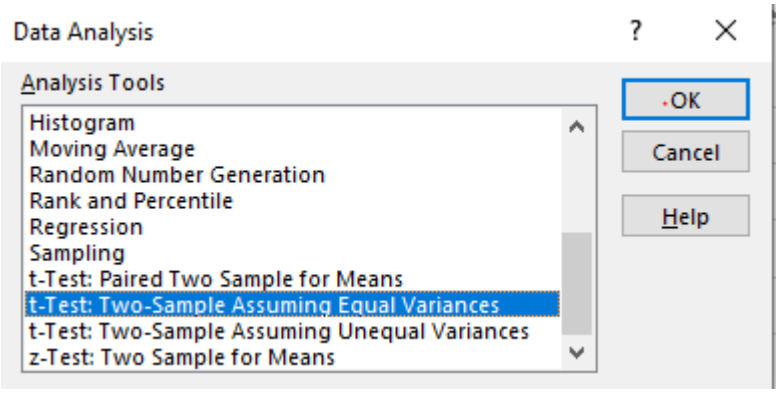
SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*
0	6	22.1	3.683333	26.96167
0.25	6	20.6	3.433333	18.91867
0.5	6	28.9	4.816667	5.321667
0.75	6	35	5.833333	31.36667
1	6	39	6.5	32.7

ANOVA

ce of Varic	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between (	42.35133	4	10.58783	0.459268	0.76482	2.75871
Within Gr	576.3433	25	23.05373			
Total	618.6947	29				

Post Hoc T Tests



t-Test: Two-Sample Assuming Equal Variances		
	1	*0.25*
Mean	12.33333333	3.433333
Variance	1.066666667	18.91867
Observations	6	6
Pooled Variance	9.992666667	
Hypothesized Mean Difference	0	
df	10	
t Stat	4.876519147	
P(T<=t) one-tail	0.000322651	
t Critical one-tail	1.812461123	
P(T<=t) two-tail	0.000645302	
t Critical two-tail	2.228138852	

0	0.25	0.5	0.75	1
				Sig
0.25				Sig
0.5	Not Significant			
0.75				
1.0	Sig			