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REGRESSION
/DESCRIPTIVES MEAN STDDEV CORR SIG N
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT Drownings
/METHOD=ENTER IceCreamSales Rain Interaction
/RESIDUALS HISTOGRAM(ZRESID) NORMPROB(ZRESID) .

```

## Regression

[DataSet1] C:\Sruti\Coursework\Research method - II\Homework2\HW 2 Data.sav

### Descriptive Statistics

	Mean	Std. Deviation	N
Number of reported drownings	18.0833	6.48680	36
Number of ice cream truck sales (in thousands)	5.3333	4.09180	36
Average monthly rainfall	4.1208	3.16960	36
Interaction	15.9083	15.48171	36

### Correlations

		Number of reported drownings	Number of ice cream truck sales (in thousands)	Average monthly rainfall
Pearson Correlation	Number of reported drownings	1.000	.720	-.729
	Number of ice cream truck sales (in thousands)	.720	1.000	-.481
	Average monthly rainfall	-.729	-.481	1.000
	Interaction	-.384	.241	.527
Sig. (1-tailed)	Number of reported drownings	.	.000	.000
	Number of ice cream truck sales (in thousands)	.000	.	.001
	Average monthly rainfall	.000	.001	.
	Interaction	.010	.079	.000
N	Number of reported drownings	36	36	36
	Number of ice cream truck sales (in thousands)	36	36	36
	Average monthly rainfall	36	36	36
	Interaction	36	36	36

### Correlations

		Interaction
Pearson Correlation	Number of reported drownings	-.384
	Number of ice cream truck sales (in thousands)	.241
	Average monthly rainfall	.527
	Interaction	1.000
Sig. (1-tailed)	Number of reported drownings	.010
	Number of ice cream truck sales (in thousands)	.079
	Average monthly rainfall	.000
	Interaction	.
N	Number of reported drownings	36
	Number of ice cream truck sales (in thousands)	36
	Average monthly rainfall	36
	Interaction	36

### Variables Entered/Removed<sup>a</sup>

Model	Variables Entered	Variables Removed	Method
1	Interaction, Number of ice cream truck sales (in thousands) , Average monthly rainfall <sup>b</sup>	.	Enter

a. Dependent Variable: Number of reported drownings

b. All requested variables entered.

### Model Summary<sup>b</sup>

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.921 <sup>a</sup>	.848	.834	2.64572

a. Predictors: (Constant), Interaction, Number of ice cream truck sales (in thousands) , Average monthly rainfall

b. Dependent Variable: Number of reported drownings

### ANOVA<sup>a</sup>

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1248.755	3	416.252	59.466	.000 <sup>b</sup>
	Residual	223.995	32	7.000		
	Total	1472.750	35			

a. Dependent Variable: Number of reported drownings

b. Predictors: (Constant), Interaction, Number of ice cream truck sales (in thousands) , Average monthly rainfall

### Coefficients<sup>a</sup>

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	14.783	1.379		10.718	.000
	Number of ice cream truck sales (in thousands)	1.362	.167	.859	8.166	.000
	Average monthly rainfall	-.011	.246	-.005	-.045	.964
	Interaction	-.246	.045	-.588	-5.415	.000

a. Dependent Variable: Number of reported drownings

### Residuals Statistics<sup>a</sup>

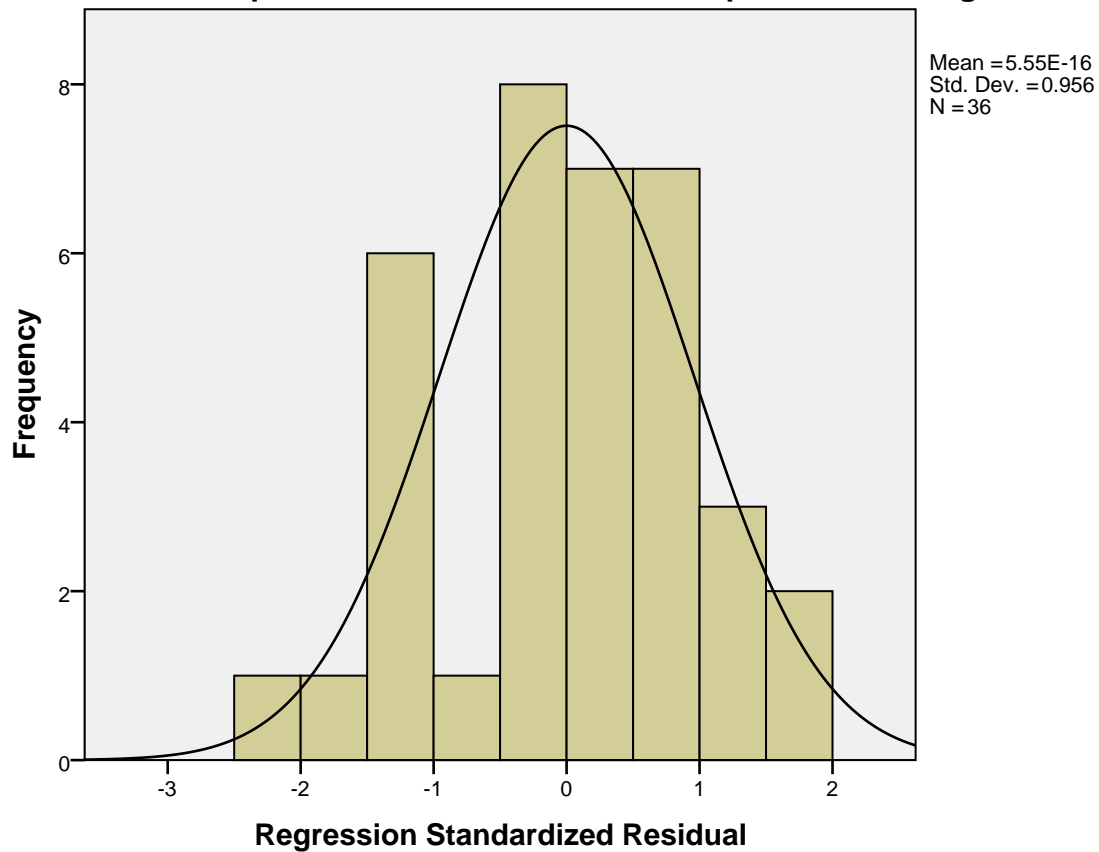
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	10.6226	35.2077	18.0833	5.97317	36
Residual	-5.61921	5.11258	.00000	2.52979	36
Std. Predicted Value	-1.249	2.867	.000	1.000	36
Std. Residual	-2.124	1.932	.000	.956	36

a. Dependent Variable: Number of reported drownings

## Charts

### Histogram

Dependent Variable: Number of reported drownings



# Normal P-P Plot of Regression Standardized Residual

Dependent Variable: Number of reported drownings

