

```

DATASET ACTIVATE DataSet2.
ONEWAY Temperatue Turbidity Length River_Depth Velocity Dischage Area Dissolved_Oxygen
      Total_Nitrate Total_Phosphate pH_Level Distance Conductivity Width BY Stream
/STATISTICS DESCRIPTIVES HOMOGENEITY
/PLOT MEANS
/MISSING ANALYSIS
/CRITERIA=CILEVEL(0.95)
/POSTHOC=TUKEY BTUKEY ALPHA(0.05) .

```

Oneway

Notes

Output Created		30-JUN-2024 03:39:09
Comments		
Input	Data	D:\Hunter\Data Works\Godiva\Data Model.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	3
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.

Notes

Syntax	ONEWAY Temperatue Turbidity Length River_Depth Velocity Discharge Area Dissolved_Oxygen Total_Nitrate Total_Phosphate pH_Level Distance Conductivity Width BY Stream /STATISTICS DESCRIPTIVES HOMOGENEITY /PLOT MEANS /MISSING ANALYSIS /CRITERIA=CILEVEL (0.95) /POSTHOC=TUKEY BTUKEY ALPHA(0.05).	
Resources	Processor Time	00:00:01.81
	Elapsed Time	00:00:01.84

[DataSet2] D:\Hunter\Data Works\Godiva\Data Model.sav

Warnings

Post hoc tests are not performed for Temperature because at least one group has fewer than two cases.

Post hoc tests are not performed for Turbidity because at least one group has fewer than two cases.

Post hoc tests are not performed for Length because at least one group has fewer than two cases.

Post hoc tests are not performed for River Depth because at least one group has fewer than two cases.

Post hoc tests are not performed for Velocity because at least one group has fewer than two cases.

Post hoc tests are not performed for Discharge because at least one group has fewer than two cases.

Post hoc tests are not performed for Area because at least one group has fewer than two cases.

Post hoc tests are not performed for Dissolved Oxygen because at least one group has fewer than two cases.

Post hoc tests are not performed for Total Nitrates because at least one group has fewer than two cases.

Warnings

Post hoc tests are not performed for Total Phosphates because at least one group has fewer than two cases.

Post hoc tests are not performed for pH Level because at least one group has fewer than two cases.

Post hoc tests are not performed for Distance because at least one group has fewer than two cases.

Post hoc tests are not performed for Conductivity because at least one group has fewer than two cases.

Post hoc tests are not performed for Width because at least one group has fewer than two cases.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

All absolute deviations are constant within each cell. Levene F statistics cannot be computed.

Descriptives

		N	Mean	Std. Deviation	Std. Error
Temperature	UPSTREAM	1	31.70000	.	.
	MIDSTREAM	1	29.06700	.	.
	DOWNSTREAM	1	31.26700	.	.
	Total	3	30.67800	1.411865	.815141
Turbidity	UPSTREAM	1	55.95000	.	.
	MIDSTREAM	1	34.15000	.	.
	DOWNSTREAM	1	12.05000	.	.
	Total	3	34.05000	21.950171	12.672937
Length	UPSTREAM	1	55.60000	.	.
	MIDSTREAM	1	43.59000	.	.
	DOWNSTREAM	1	5.47000	.	.
	Total	3	34.88667	26.173751	15.111422
River Depth	UPSTREAM	1	2.70000	.	.
	MIDSTREAM	1	.62700	.	.
	DOWNSTREAM	1	3.91000	.	.
	Total	3	2.41233	1.660297	.958573
Velocity	UPSTREAM	1	.431200	.	.
	MIDSTREAM	1	.363000	.	.
	DOWNSTREAM	1	.040000	.	.
	Total	3	.278067	.2089728	.1206505
Discharge	UPSTREAM	1	151.54900	.	.
	MIDSTREAM	1	85.12900	.	.
	DOWNSTREAM	1	1.06000	.	.
	Total	3	79.24600	75.416789	43.541903
Area	UPSTREAM	1	351.948000	.	.
	MIDSTREAM	1	234.514000	.	.
	DOWNSTREAM	1	27.080000	.	.
	Total	3	204.514000	164.4986455	94.9733372
Dissolved Oxygen	UPSTREAM	1	99.300	.	.
	MIDSTREAM	1	95.700	.	.
	DOWNSTREAM	1	26.500	.	.
	Total	3	73.833	41.0314	23.6895
Total Nitrates	UPSTREAM	1	1.000	.	.
	MIDSTREAM	1	1.100	.	.

Descriptives

		95% Confidence Interval for Mean			
		Lower Bound	Upper Bound	Minimum	Maximum
Temperature	UPSTREAM	.	.	31.700	31.700
	MIDSTREAM	.	.	29.067	29.067
	DOWNSTREAM	.	.	31.267	31.267
	Total	27.17073	34.18527	29.067	31.700
Turbidity	UPSTREAM	.	.	55.950	55.950
	MIDSTREAM	.	.	34.150	34.150
	DOWNSTREAM	.	.	12.050	12.050
	Total	-20.47725	88.57725	12.050	55.950
Length	UPSTREAM	.	.	55.600	55.600
	MIDSTREAM	.	.	43.590	43.590
	DOWNSTREAM	.	.	5.470	5.470
	Total	-30.13253	99.90587	5.470	55.600
River Depth	UPSTREAM	.	.	2.700	2.700
	MIDSTREAM	.	.	.627	.627
	DOWNSTREAM	.	.	3.910	3.910
	Total	-1.71207	6.53674	.627	3.910
Velocity	UPSTREAM	.	.	.4312	.4312
	MIDSTREAM	.	.	.3630	.3630
	DOWNSTREAM	.	.	.0400	.0400
	Total	-.241050	.797184	.0400	.4312
Discharge	UPSTREAM	.	.	151.549	151.549
	MIDSTREAM	.	.	85.129	85.129
	DOWNSTREAM	.	.	1.060	1.060
	Total	-108.09969	266.59169	1.060	151.549
Area	UPSTREAM	.	.	351.9480	351.9480
	MIDSTREAM	.	.	234.5140	234.5140
	DOWNSTREAM	.	.	27.0800	27.0800
	Total	-204.123289	613.151289	27.0800	351.9480
Dissolved Oxygen	UPSTREAM	.	.	99.3	99.3
	MIDSTREAM	.	.	95.7	95.7
	DOWNSTREAM	.	.	26.5	26.5
	Total	-28.094	175.761	26.5	99.3
Total Nitrates	UPSTREAM	.	.	1.0	1.0
	MIDSTREAM	.	.	1.1	1.1

Descriptives

		N	Mean	Std. Deviation	Std. Error
	DOWNSTREAM	1	.900	.	.
	Total	3	1.000	.1000	.0577
Total Phosphates	UPSTREAM	1	2.0500	.	.
	MIDSTREAM	1	.8500	.	.
	DOWNSTREAM	1	2.5000	.	.
	Total	3	1.8000	.85294	.49244
pH Level	UPSTREAM	1	7.8000	.	.
	MIDSTREAM	1	7.7000	.	.
	DOWNSTREAM	1	7.9400	.	.
	Total	3	7.8133	.12055	.06960
Distance	UPSTREAM	1	20.81300	.	.
	MIDSTREAM	1	46.10000	.	.
	DOWNSTREAM	1	1.46000	.	.
	Total	3	22.79100	22.385637	12.924354
Conductivity	UPSTREAM	1	172.3000	.	.
	MIDSTREAM	1	193.5000	.	.
	DOWNSTREAM	1	248.0000	.	.
	Total	3	204.6000	39.05163	22.54647
Width	UPSTREAM	1	.50000	.	.
	MIDSTREAM	1	5.38000	.	.
	DOWNSTREAM	1	4.95000	.	.
	Total	3	3.61000	2.701907	1.559947

Descriptives

		95% Confidence Interval for Mean			
		Lower Bound	Upper Bound	Minimum	Maximum
Total Phosphates	DOWNSTREAM	.	.	.9	.9
	Total	.752	1.248	.9	1.1
	UPSTREAM	.	.	2.05	2.05
	MIDSTREAM	.	.	.85	.85
	DOWNSTREAM	.	.	2.50	2.50
pH Level	Total	-.3188	3.9188	.85	2.50
	UPSTREAM	.	.	7.80	7.80
	MIDSTREAM	.	.	7.70	7.70
	DOWNSTREAM	.	.	7.94	7.94
	Total	7.5139	8.1128	7.70	7.94
Distance	UPSTREAM	.	.	20.813	20.813
	MIDSTREAM	.	.	46.100	46.100
	DOWNSTREAM	.	.	1.460	1.460
	Total	-32.81801	78.40001	1.460	46.100
Conductivity	UPSTREAM	.	.	172.30	172.30
	MIDSTREAM	.	.	193.50	193.50
	DOWNSTREAM	.	.	248.00	248.00
	Total	107.5904	301.6096	172.30	248.00
Width	UPSTREAM	.	.	.500	.500
	MIDSTREAM	.	.	5.380	5.380
	DOWNSTREAM	.	.	4.950	4.950
	Total	-3.10191	10.32191	.500	5.380

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Temperature	Between Groups	3.987	2	1.993	.	.
	Within Groups	.000	0	.		
	Total	3.987	2			
Turbidity	Between Groups	963.620	2	481.810	.	.
	Within Groups	.000	0	.		
	Total	963.620	2			
Length	Between Groups	1370.130	2	685.065	.	.
	Within Groups	.000	0	.		
	Total	1370.130	2			
River Depth	Between Groups	5.513	2	2.757	.	.
	Within Groups	.000	0	.		
	Total	5.513	2			
Velocity	Between Groups	.087	2	.044	.	.
	Within Groups	.000	0	.		
	Total	.087	2			
Discharge	Between Groups	11375.384	2	5687.692	.	.
	Within Groups	.000	0	.		
	Total	11375.384	2			
Area	Between Groups	54119.609	2	27059.804	.	.
	Within Groups	.000	0	.		
	Total	54119.609	2			
Dissolved Oxygen	Between Groups	3367.147	2	1683.573	.	.
	Within Groups	.000	0	.		
	Total	3367.147	2			
Total Nitrates	Between Groups	.020	2	.010	.	.
	Within Groups	.000	0	.		
	Total	.020	2			
Total Phosphates	Between Groups	1.455	2	.727	.	.
	Within Groups	.000	0	.		
	Total	1.455	2			
pH Level	Between Groups	.029	2	.015	.	.
	Within Groups	.000	0	.		
	Total	.029	2			

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Distance	Between Groups	1002.234	2	501.117	.	.
	Within Groups	.000	0	.		
	Total	1002.234	2			
Conductivity	Between Groups	3050.060	2	1525.030	.	.
	Within Groups	.000	0	.		
	Total	3050.060	2			
Width	Between Groups	14.601	2	7.300	.	.
	Within Groups	.000	0	.		
	Total	14.601	2			

Means Plots















