

▼ OLS Regression – canal principal

3 case(s) are deleted due to missing data.

Dependent Variable	RIQUEZA
N	25
Multiple R	0,936
Squared Multiple R	0,876
Adjusted Squared Multiple R	0,505
Standard Error of Estimate	1,697

Regression Coefficients $B = (X'X)^{-1}X'Y$						
Effect	Coefficient	Standard Error	Std. Coefficient	Tolerance	t	p-Value
CONSTANT	-33,391	42,880	0,000	.	-0,779	0,466
PH	0,702	1,893	0,121	0,195	0,371	0,724
LOGTURB	0,939	4,164	0,145	0,050	0,226	0,829
LOGOD	6,141	8,249	0,239	0,200	0,744	0,485
LOGBICAR	4,189	6,458	0,238	0,154	0,649	0,541
LOGDBO	7,122	8,677	0,363	0,106	0,821	0,443
LOGDQO	-0,504	5,839	-0,064	0,037	-0,086	0,934
LOGPT	-0,320	2,107	-0,048	0,210	-0,152	0,884
LOGP_ORT	-0,572	17,845	-0,008	0,353	-0,032	0,975
LOGSóLIDOS_SUSPEN_TOTAIS	-0,520	3,543	-0,063	0,112	-0,147	0,888
LOGCLORO_RESID	2,039	2,473	0,353	0,112	0,824	0,441
LOGCOT	-10,543	10,926	-1,370	0,010	-0,965	0,372
LOGCOD	13,433	10,792	1,790	0,010	1,245	0,260
LOGSULFATO	-5,703	13,586	-0,142	0,179	-0,420	0,689
LOGSóDIO_TOTAL__NAT__	17,137	7,158	0,831	0,171	2,394	0,054
LOGPOTáSSIO_TOTAL__KT__	-1,303	8,551	-0,086	0,064	-0,152	0,884
LOGZINCOTOTAL__ZNT__	0,039	1,134	0,009	0,277	0,035	0,973
LOGFERRO DISSOLVIDO__FE DISS	-7,458	5,042	-1,003	0,045	-1,479	0,190
LOGDUR	-2,803	7,520	-0,128	0,176	-0,373	0,722

Analysis of Variance					
Source	SS	df	Mean Squares	F-Ratio	p-Value
Regression	122,479	18	6,804	2,363	0,146
Residual	17,281	6	2,880		

WARNING

Case 5 is an Outlier (Studentized Residual : 3,340)
 Case 9 has large Leverage (Leverage : 0,937)
 Case 9 is an Outlier (Studentized Residual : 2,790)
 Case 10 is an Outlier (Studentized Residual : 6,788)
 Case 11 has large Leverage (Leverage : 0,964)
 Case 12 is an Outlier (Studentized Residual : -2,060)
 Case 15 is an Outlier (Studentized Residual : -2,377)

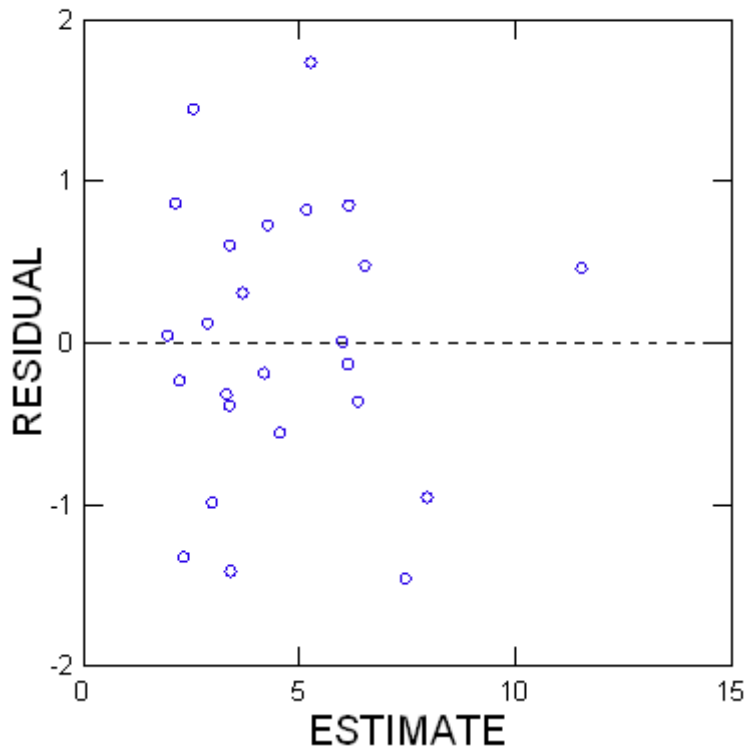
Durbin-Watson D-Statistic	2,361
First Order Autocorrelation	-0,209

Information Criteria

AIC	101,715
AIC (Corrected)	311,715
Schwarz's BIC	126,092

Residuals have been saved.

Plot of Residuals vs. Predicted Values



WARNING Duplicate variable name(s) logdur have been replaced by logdur(1)

▼ File: Untitled1.syz

IMPORT successfully completed. Processed 45 variables and 50 cases.
 Successfully saved file E:\qabentostribut.syz
 Processed 44 Variables and 50 Cases.

▼ OLS Regression - tributário

4 case(s) are deleted due to missing data.
 Unable to enter effect 31.
 This effect may fail tolerance checks.
 The following effects have lost degrees of freedom.

Effect	Initial df	Lost df	Final df
LOGCROMO_TOTAL__CRT_1	1	1	0

Dependent Variable	RIQUEZA
N	46
Multiple R	0,872
Squared Multiple R	0,760
Adjusted Squared Multiple R	0,000
Standard Error of Estimate	3,060

Regression Coefficients B = (X'X) ⁻¹ X'Y						
Effect	Coefficient	Standard Error	Std. Coefficient	Tolerance	t	p-Value
CONSTANT	79,467	320,018	0,000	.	0,248	0,810
PH	-0,786	2,168	-0,237	0,070	-0,363	0,726
LOGCOND	-0,154	4,349	-0,016	0,144	-0,035	0,973
LOGTURB	-0,110	4,332	-0,016	0,072	-0,025	0,980
LOGOD	9,351	10,761	0,535	0,079	0,869	0,410
LOGALCA	-134,586	131,725	-9,426	0,000	-1,022	0,337
LOGDUR	11,644	16,481	0,369	0,110	0,706	0,500
LOGBICAR	134,666	131,546	9,398	0,000	1,024	0,336
LOGDBO	1,503	5,762	0,092	0,243	0,261	0,801
LOGDQO	-1,441	10,839	-0,145	0,025	-0,133	0,898
LOGNITRA	3,993	5,417	0,384	0,111	0,737	0,482
LOGDUR(1)	-6,711	26,421	-0,226	0,038	-0,254	0,806
LOGN_ORGA	2,591	4,833	0,349	0,071	0,536	0,607
LOGPT	1,387	3,469	0,212	0,107	0,400	0,700
LOGP_ORT	2,653	6,925	0,201	0,109	0,383	0,712
LOGSólIDOS_TOTAIS	-1,890	32,461	-0,179	0,003	-0,058	0,955
LOGSólIDOS DISSOL__TOTAIS	1,220	29,749	0,126	0,003	0,041	0,968
LOGSólIDOS SUSPEN_TOTAIS	2,703	12,218	0,347	0,012	0,221	0,830
LOGCLORETO_TOTAL	-16,514	28,619	-0,269	0,138	-0,577	0,580
LOGCLORO_RESID	-5,429	3,453	-0,657	0,172	-1,572	0,155
LOGCOT	-11,241	19,231	-1,162	0,008	-0,585	0,575
LOGCOD	10,957	23,180	1,183	0,005	0,473	0,649
LOGSULFATO	6,011	21,013	0,245	0,041	0,286	0,782
LOGCáLCIO_TOTAL__CAT__	-3,326	5,234	-0,529	0,043	-0,635	0,543
LOGMAGNésIO_TOTAL__MGT__	3,519	6,476	0,477	0,039	0,543	0,602
LOGSódIO_TOTAL__NAT__	-2,108	3,469	-0,342	0,095	-0,608	0,560
LOGPOTássIO_TOTAL__KT__	-0,567	7,313	-0,056	0,057	-0,077	0,940
LOGMANGANês_TOTAL__MNT__	1,990	4,084	0,418	0,041	0,487	0,639
LOGZINCOTOTAL__ZNT__	0,953	1,398	0,244	0,235	0,682	0,515
LOGCHUMBO_TOTAL__PBT__	2,647	5,194	0,141	0,390	0,510	0,624
LOGCROMO_TOTAL__CRT__
LOGARSênIO_TOTAL__AST__	-1,799	21,631	-0,030	0,226	-0,083	0,936
LOGSELênIO_TOTAL__SET__	13,076	24,113	0,357	0,069	0,542	0,602
LOGNIQUEL_TOTAL__NIT__	-4,807	6,357	-0,596	0,048	-0,756	0,471
LOGALUMínIO DISSOLVIDO__AL DISS__	-6,534	3,888	-0,657	0,196	-1,680	0,131
LOGFERRO_TOTAL__FET__	1,202	9,117	0,168	0,019	0,132	0,898
LOGFERRO DISSOLVIDO__FE DISS__	-1,037	8,498	-0,129	0,027	-0,122	0,906
LOGCOBRE DISSOLVIDO__CU DISS__	32,005	135,404	0,142	0,083	0,236	0,819
LOGSÍLICA SOLúVEL	-8,693	7,948	-0,566	0,112	-1,094	0,306

Analysis of Variance					
Source	SS	df	Mean Squares	F-Ratio	p-Value
Regression	237,075	37	6,407	0,684	0,795
Residual	74,925	8	9,366		

WARNING

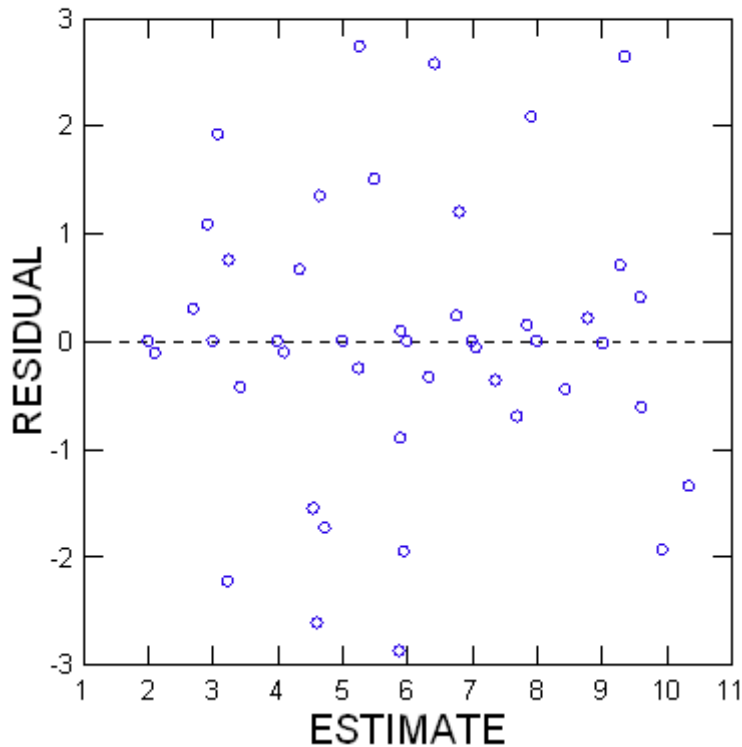
Case 6 has large Leverage (Leverage : 1,000)
Case 8 has large Leverage (Leverage : 1,000)
Case 16 has large Leverage (Leverage : 0,975)
Case 29 has large Leverage (Leverage : 0,985)
Case 39 has large Leverage (Leverage : 0,969)
Case 45 is an Outlier (Studentized Residual : -2,675)
Case 47 has large Leverage (Leverage : 1,000)

Durbin-Watson D-Statistic	1,726
First Order Autocorrelation	0,133

Information Criteria	
AIC	230,983
AIC (Corrected)	750,983
Schwarz's BIC	302,300

Residuals have been saved.

Plot of Residuals vs. Predicted Values



WARNING Reserved keyword(s) temp used as variable names have been replaced by temp(1)

▼ File: Untitled1.syz

IMPORT successfully completed. Processed 11 variables and 105 cases.
 Successfully saved file E:\sondabentosqa.syz
 Processed 11 Variables and 105 Cases.

▼ OLS Regression

12 case(s) are deleted due to missing data.

Dependent Variable	RIQUEZA
N	93
Multiple R	0,481
Squared Multiple R	0,231
Adjusted Squared Multiple R	0,177
Standard Error of Estimate	1,386

Regression Coefficients $B = (X'X)^{-1}X'Y$					
Effect	Coefficient	Standard Error	Std. Coefficient	Tolerance	p-Value
CONSTANT	3,872	9,163	0,000	.	0,423
PROFUNDIDADE	0,016	0,100	0,016	0,837	0,877
PH	0,451	0,165	0,279	0,864	2,741
COND	1,544	0,702	0,221	0,886	2,198
TURB	1,892	0,611	0,332	0,780	3,096
OD	-0,599	0,461	-0,131	0,880	-1,301
TEMP(1)	-4,437	6,422	-0,079	0,690	-0,691

Analysis of Variance					
Source	SS	df	Mean Squares	F-Ratio	p-Value
Regression	49,565	6	8,261	4,303	0,001
Residual	165,102	86	1,920		

WARNING

Case 11 has large Leverage (Leverage : 0,354)
 Case 22 has large Leverage (Leverage : 0,307)
 Case 34 has large Leverage (Leverage : 0,312)
 Case 98 has large Leverage (Leverage : 0,254)

Durbin-Watson D-Statistic	0,770
First Order Autocorrelation	0,615

Information Criteria	
AIC	333,301
AIC (Corrected)	335,016
Schwarz's BIC	353,562

Residuals have been saved.

Plot of Residuals vs. Predicted Values

