

▼ OLS Regression - tributários

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

Dependent Variable	RIQUEZA_FITO
N	46
Multiple R	0,915
Squared Multiple R	0,837
Adjusted Squared Multiple R	0,437
Standard Error of Estimate	5,747

Regression Coefficients B = (X'X) ⁻¹ X'Y						
Effect	Coefficient	Standard Error	Std. Coefficient	Tolerance	t	p-Value
CONSTANT	13,139	83,777	0,000	.	0,157	0,878
PH	-4,411	3,349	-0,457	0,104	-1,317	0,211
LOGCOND	0,107	7,236	0,004	0,183	0,015	0,988
LOGTURB	-9,204	5,212	-0,471	0,176	-1,766	0,101
LOGOD	-3,760	11,899	-0,074	0,228	-0,316	0,757
LOGALCA	-340,969	222,196	-8,209	0,000	-1,535	0,149
LOGDUR	76,821	20,178	0,836	0,259	3,807	0,002
LOGBICAR	353,486	222,571	8,479	0,000	1,588	0,136
LOGDBO	1,418	9,433	0,030	0,320	0,150	0,883
LOGDQO	-7,566	13,074	-0,261	0,061	-0,579	0,573
LOGNITRA	5,143	8,733	0,170	0,150	0,589	0,566
LOGDUR(1)	8,732	37,818	0,101	0,065	0,231	0,821
LOGN_ORGA	-6,811	5,512	-0,316	0,192	-1,236	0,238
LOGPT	0,009	5,707	0,000	0,139	0,002	0,999
LOGP_ORT	-5,213	7,659	-0,136	0,315	-0,681	0,508
LOGSólIDOS_TOTAIS	-28,694	36,786	-0,936	0,009	-0,780	0,449
LOGSólIDOS DISSOL_TOTAIS	24,179	33,903	0,859	0,009	0,713	0,488
LOGSólIDOS_SUSPEN_TOTAIS	5,651	14,267	0,250	0,032	0,396	0,698
LOGCLORETO_TOTAL	-16,936	49,057	-0,095	0,165	-0,345	0,735
LOGCLORO_RESID	-0,648	5,770	-0,027	0,217	-0,112	0,912
LOGCOT	0,027	13,563	0,001	0,054	0,002	0,998
LOGSULFATO	-41,086	21,459	-0,576	0,138	-1,915	0,078
LOGCáLCIO_TOTAL__CAT__	7,052	8,904	0,386	0,053	0,792	0,443
LOGMAGNésIO_TOTAL__MGT__	-5,661	8,548	-0,264	0,079	-0,662	0,519
LOGSódIO_TOTAL__NAT__	0,802	5,868	0,045	0,117	0,137	0,893
LOGPOTássIO_TOTAL__KT__	-1,053	12,448	-0,036	0,069	-0,085	0,934
LOGMANGANês_TOTAL__MNT__	6,044	5,542	0,436	0,078	1,091	0,295
LOGZINCOTOTAL__ZNT__	0,106	2,449	0,009	0,270	0,043	0,966
LOGCHUMBO_TOTAL__PBT__	6,060	8,095	0,111	0,566	0,749	0,467
LOGALUMÍNIIO DISSOLVIDO__AL DISS__	3,896	6,571	0,135	0,242	0,593	0,563
LOGFERRO_TOTAL__FET__	-8,766	13,951	-0,420	0,028	-0,628	0,541
LOGFERRO DISSOLVIDO__FE DISS__	16,005	12,617	0,687	0,043	1,269	0,227
LOGSÍLICA_SOLúVEL	-12,896	12,733	-0,289	0,154	-1,013	0,330

Analysis of Variance					
Source	SS	df	Mean Squares	F-Ratio	p-Value
Regression	2.211,326	32	69,104	2,092	0,079
Residual	429,391	13	33,030		

WARNING

Case 16 has large Leverage (Leverage : 0,918)
Case 18 has large Leverage (Leverage : 0,969)
Case 21 has large Leverage (Leverage : 1,000)
Case 32 has large Leverage (Leverage : 0,917)
Case 34 has large Leverage (Leverage : 0,956)
Case 43 is an Outlier (Studentized Residual : 2,710)
Case 46 has large Leverage (Leverage : 0,915)
Case 57 has large Leverage (Leverage : 0,995)

Durbin-Watson D-Statistic	1,815
First Order Autocorrelation	0,078

Information Criteria	
AIC	301,294
AIC (Corrected)	517,657
Schwarz's BIC	363,468

Residuals have been saved.

▼ OLS Regression

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

Dependent Variable	RIQUEZA_FITO
N	25
Multiple R	0,875
Squared Multiple R	0,765
Adjusted Squared Multiple R	0,000
Standard Error of Estimate	9,716

Regression Coefficients $B = (X'X)^{-1}X'Y$						
Effect	Coefficient	Standard Error	Std. Coefficient	Tolerance	p-Value	
CONSTANT	-165,180	282,084	0,000	.	-0,586	0,584
PH	-11,102	8,921	-0,503	0,288	-1,244	0,268
LOGCOND	130,832	107,974	0,729	0,130	1,212	0,280
LOGOD	4,158	53,205	0,043	0,157	0,078	0,941
LOGBICAR	18,248	24,900	0,273	0,339	0,733	0,497
LOGDBO	50,673	35,984	0,681	0,201	1,408	0,218
LOGDQO	-7,247	34,671	-0,243	0,035	-0,209	0,843
LOGNITRA	-15,587	27,238	-0,242	0,263	-0,572	0,592
LOGNITRI	83,766	97,675	0,323	0,332	0,858	0,430

Regression Coefficients $B = (X'X)^{-1}X'Y$

Effect	Coefficient	Standard Error	Std. Coefficient	Tolerance	t	p-Value
LOGN_ORGA	-5,676	12,630	-0,189	0,266	-0,449	0,672
LOGPT	-10,292	11,910	-0,404	0,215	-0,864	0,427
LOGP_ORT	95,776	91,903	0,342	0,437	1,042	0,345
LOGSóLIDOS_TOTAIS	-38,369	65,772	-1,088	0,014	-0,583	0,585
LOGSóLIDOS DISSOL_TOTAIS	49,308	83,668	1,239	0,011	0,589	0,581
LOGCLORETO_TOTAL	10,698	69,115	0,062	0,291	0,155	0,883
LOGCOT	6,537	37,292	0,224	0,029	0,175	0,868
LOGSULFATO	-39,008	67,322	-0,257	0,239	-0,579	0,587
LOGSóDIO_TOTAL_NAT_	-63,818	43,245	-0,816	0,154	-1,476	0,200
LOGZINCOTOTAL_ZNT_	4,093	8,123	0,260	0,177	0,504	0,636
LOGARS&NIO_TOTAL_AST_	-5,147	24,898	-0,068	0,429	-0,207	0,844

Analysis of Variance

Source	SS	df	Mean Squares	F-Ratio	p-Value
Regression	1,535,384	19	80,810	0,856	0,639
Residual	471,976	5	94,395		

WARNING

- Case 6 is an Outlier (Studentized Residual : 3,315)
- Case 14 has large Leverage (Leverage : 0,968)
- Case 14 is an Outlier (Studentized Residual : -2,057)
- Case 16 has large Leverage (Leverage : 1,000)
- Case 20 has large Leverage (Leverage : 1,000)
- Case 23 is an Outlier (Studentized Residual : 2,220)
- Case 26 has large Leverage (Leverage : 1,000)
- Case 28 has large Leverage (Leverage : 1,000)

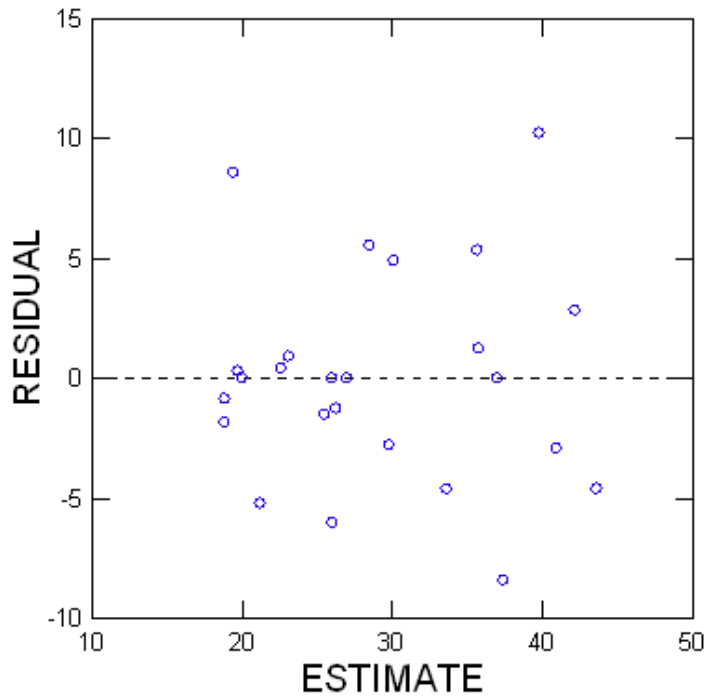
Durbin-Watson D-Statistic	1,676
First Order Autocorrelation	0,132

Information Criteria

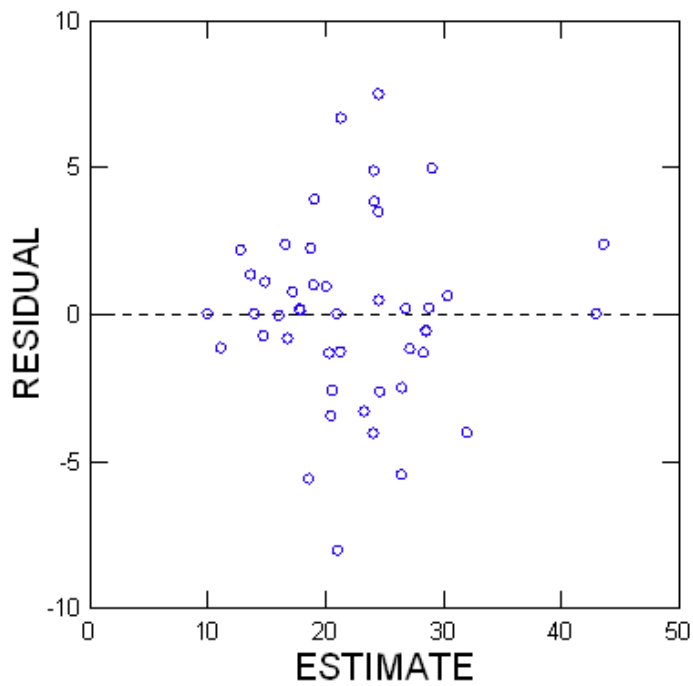
AIC	186,398
AIC (Corrected)	494,398
Schwarz's BIC	211,995

Residuals have been saved.

Plot of Residuals vs. Predicted Values



Plot of Residuals vs. Predicted Values



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

Dependent Variable	RIQUEZA_FITO
N	93
Multiple R	0,641
Squared Multiple R	0,411
Adjusted Squared Multiple R	0,370
Standard Error of Estimate	7,344

Regression Coefficients $B = (X'X)^{-1}X'Y$						
Effect	Coefficient	Standard Error	Std. Coefficient	Tolerance	t	p-Value
CONSTANT	245,545	48,566	0,000	.	5,056	0,000
PROFUNDIDADE	0,652	0,532	0,111	0,837	1,224	0,224
PH	1,058	0,873	0,108	0,864	1,212	0,229
COND	12,439	3,723	0,294	0,886	3,341	0,001
TURB	-0,367	3,239	-0,011	0,780	-0,113	0,910
OD	-0,009	2,442	0,000	0,880	-0,004	0,997
TEMP(1)	-168,960	34,035	-0,495	0,690	-4,964	0,000

Analysis of Variance					
Source	SS	df	Mean Squares	F-Ratio	p-Value
Regression	3.235,4026	539,234		9,999	0,000
Residual	4.637,91086	53,929			

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	0,541
First Order Autocorrelation	0,724

Information Criteria	
AIC	643,499
AIC (Corrected)	645,213
Schwarz's BIC	663,759

Residuals have been saved.

Plot of Residuals vs. Predicted Values

