

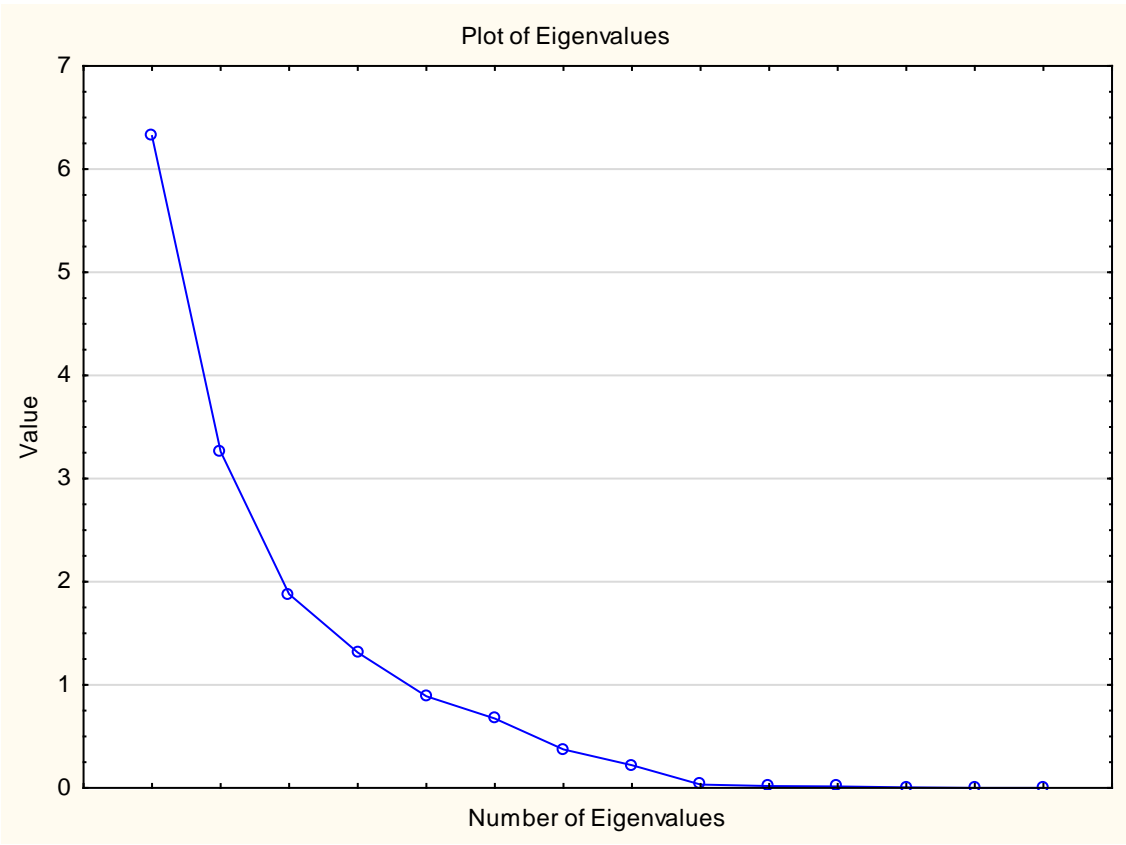
Factor Analysis (DATA 20191022)

Factor analysis results dialog

Eigenvalues (DATA 20191022)

Value	Eigenvalues (DATA 20191022) Extraction: Principal components			
	Eigenvalue	% Total variance	Cumulative Eigenvalue	Cumulative %
1	6.321049	42.14033	6.32105	42.14033
2	3.260244	21.73496	9.58129	63.87529
3	1.878796	12.52531	11.46009	76.40060
4	1.313384	8.75590	12.77347	85.15649
5	0.888859	5.92573	13.66233	91.08222
6	0.672614	4.48409	14.33495	95.56631
7	0.373697	2.49132	14.70864	98.05763

Plot of Eigenvalues



Factor Loadings (Varimax normalized) (DATA 20191022)

Variable	Factor Loadings (Varimax normalized) (DATA 20191022) Extraction: Principal components (Marked loadings are > 0.70000)			
	Factor 1	Factor 2	Factor 3	Factor 4
Stocking	0.530363	-0.507752	0.140436	0.018095
Initial LAI	0.348923	0.150849	0.765796	0.087595
MAP	0.382760	-0.129201	0.099344	0.868508
Soil depth	0.297550	-0.420507	0.319350	0.277526
WC at FC	-0.024018	0.843070	0.297123	-0.140273
Bulk density	-0.076818	0.081320	-0.955891	-0.065683
pH_(KCl)	-0.038433	-0.258566	-0.237645	-0.880763
C	0.089013	0.773819	-0.358578	0.443177
Total N	0.191972	0.790878	-0.415919	0.335664
Clay	0.149857	-0.252632	0.914430	0.151597
Net N min	0.894479	0.139802	0.284196	0.134812
Normalised Nmin	0.912762	0.243190	0.162950	0.163428
Modelled Nmin	0.907084	-0.126930	-0.059849	0.099053
GNA	0.679806	-0.301148	0.601365	0.219799
Normalised GNA	0.732833	-0.188588	0.558347	0.254654
Expl.Var	4.168473	2.767483	3.698545	2.138973
Prp.Totl	0.277898	0.184499	0.246570	0.142598

Basic Statistics/Tables (DATA 20191022)

Correlations dialog

Correlations (DATA 20191022)

Variable	Correlations (DATA 20191022) Marked correlations are
	Relative yield
Stocking	-0.370356
Initial LAI	-0.667929
MAP	-0.533944
Soil depth	-0.420672
WC at FC	-0.114055
Bulk density	0.432200
pH_(KCl)	0.233254
C	-0.112587
Total N	-0.081012
Clay	-0.641434
Net N min	-0.496253
Normalised Nmin	-0.518139
Modelled Nmin	-0.490677
GNA	-0.732835
Normalised GNA	-0.812983

Correlations (DATA 20191022)

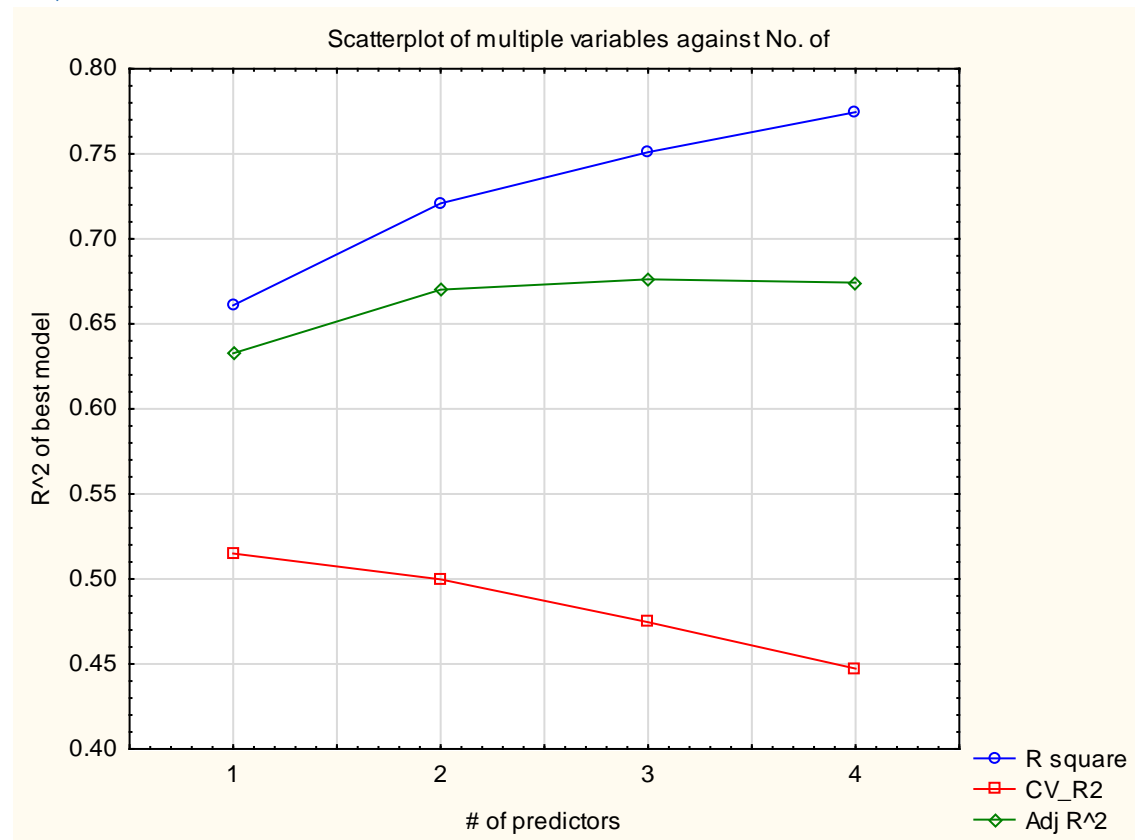
Variable	Correlations (DATA 20191022) Marked correlations are Relative yield
Stocking	-.3704 p=.192
Initial LAI	-.6679 p=.009
MAP	-.5339 p=.049
Soil depth	-.4207 p=.134
WC at FC	-.1141 p=.698
Bulk density	.4322 p=.123
pH_(KCl)	.2333 p=.422
C	-.1126 p=.702
Total N	-.0810 p=.783
Clay	-.6414 p=.013
Net N min	-.4963 p=.071
Normalised Nmin	-.5181 p=.058
Modelled Nmin	-.4907 p=.075
GNA	-.7328 p=.003
Normalised GNA	-.8130 p=.000

BEST 4 PREDICTORS General Regression Models (GRM) (DATA 20191022)

"Relative yield";

diagnostics

Graph

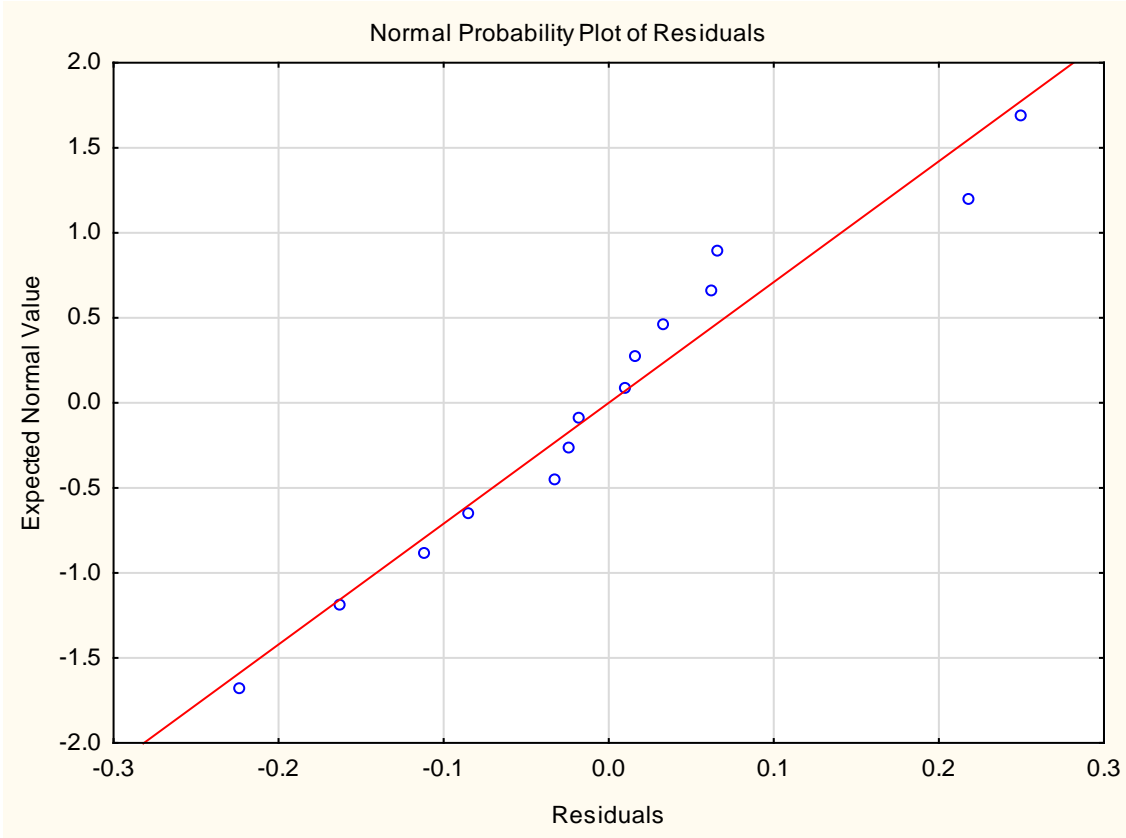


best regression

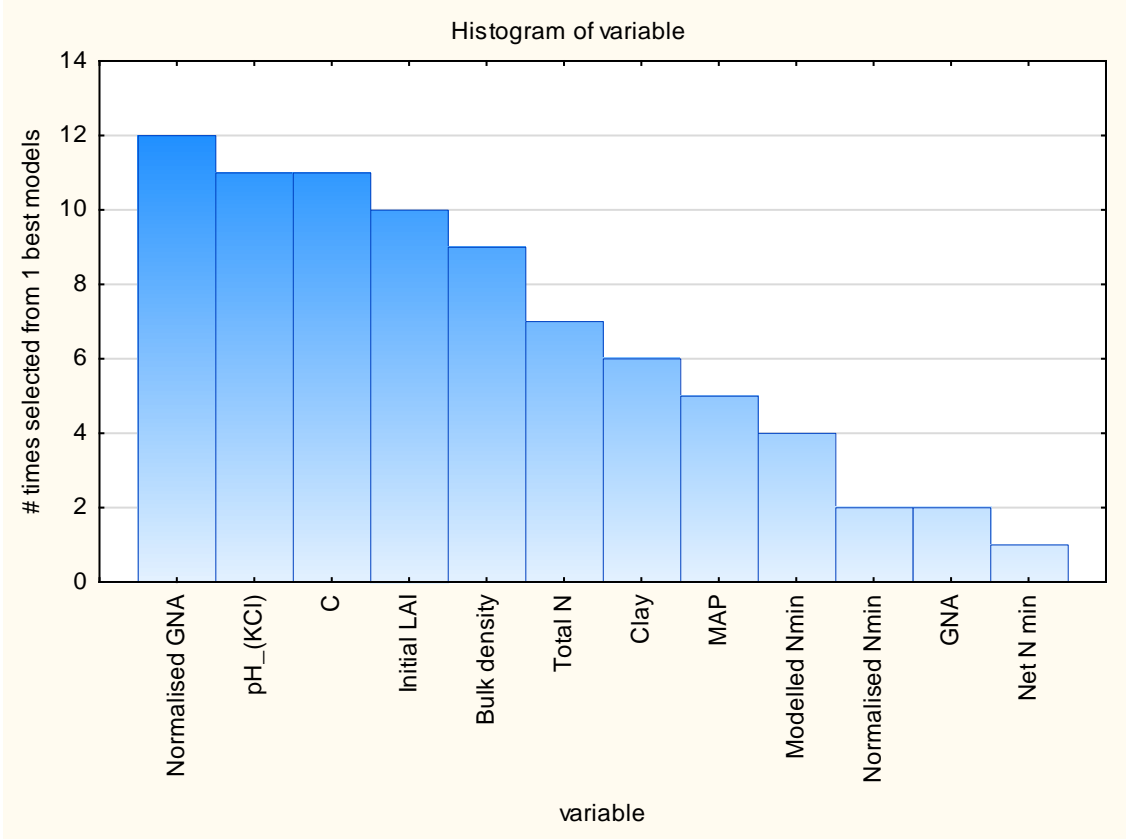
regression table

Regression Summary for Dependent Variable: Relative yield (DATA 20191022) R= .88006500 R ² = .77451440 Adjusted R ² = .67429857 CV-R ² =0.45							
N=14	b*	Std.Err. of b*	b	Std.Err. of b	t(9)	p-value	# times in best 20 models
Intercept			1.676591	0.659268	2.54311	0.031549	
Initial LAI	-0.203350	0.209717	-0.043349	0.044706	-0.96964	0.357560	10
pH_(KCl)	-0.216157	0.196843	-0.162847	0.148296	-1.09812	0.300661	11
C	-0.337613	0.191220	-0.047389	0.026841	-1.76557	0.111281	11
Normalised GNA	-0.800877	0.225539	-0.280817	0.079082	-3.55095	0.006207	12
MAP	Excluded						5
Bulk density	Excluded						9
Total N	Excluded						7
Clay	Excluded						6
Net N min	Excluded						1
Normalised Nmin	Excluded						2
Modelled Nmin	Excluded						4
GNA	Excluded						2

Normal probability plot



summary of best 20 models

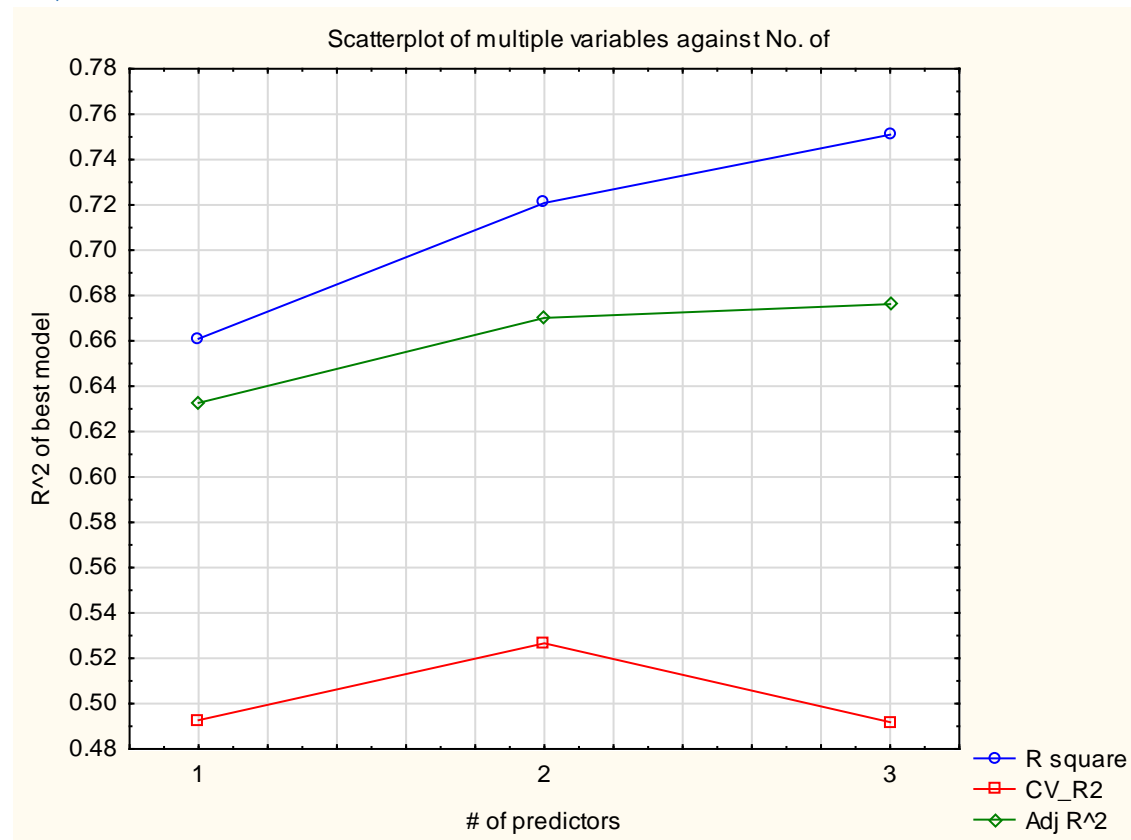


BEST 3 PREDICTORS General Regression Models (GRM) (DATA 20191022)

"Relative yield";

diagnostics

Graph

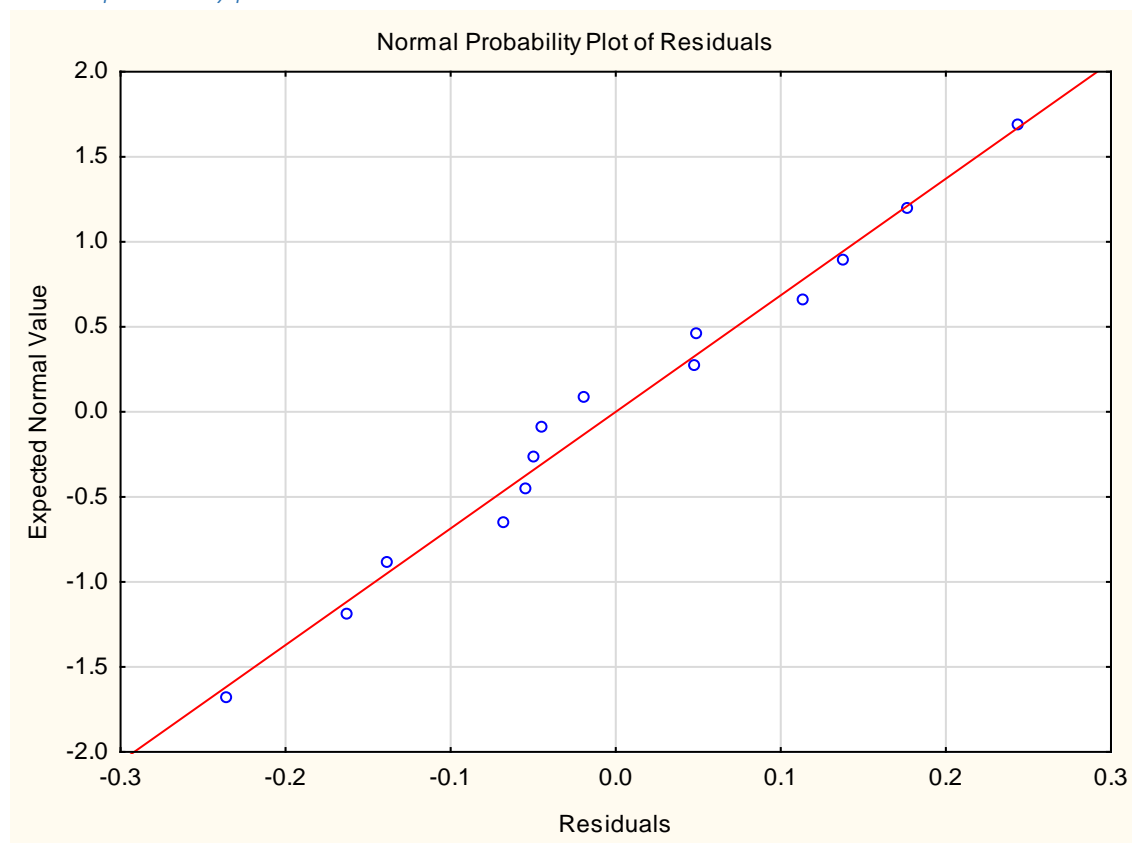


best regression

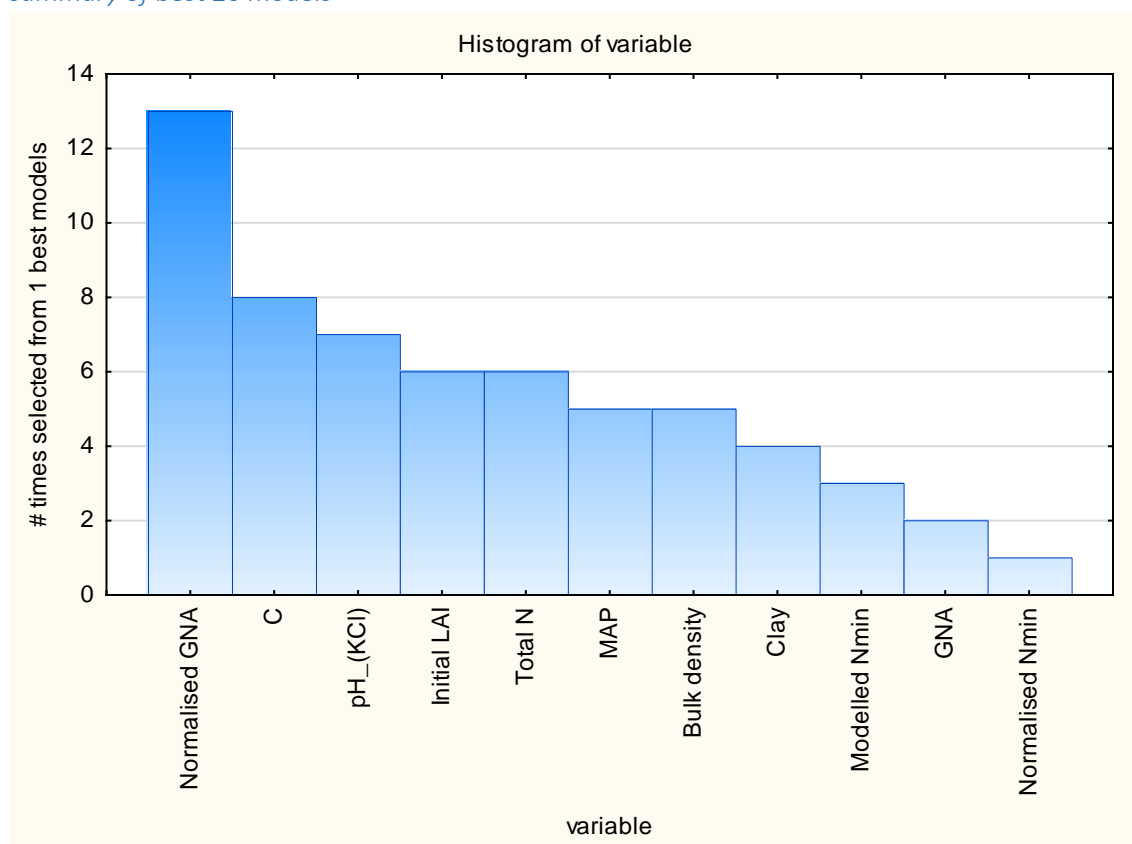
regression table

Regression Summary for Dependent Variable: Relative yield (DATA 20191022) R= .86657863 R ² = .75095852 Adjusted R ² = .67624608 CV-R ² =0.49							
N=14	b*	Std.Err. of b*	b	Std.Err. of b	t(10)	p-value	# times in best 20 models
Intercept			1.606912	0.653377	2.45939	0.033711	
pH_(KCl)	-0.215705	0.196253	-0.162507	0.147852	-1.09912	0.297473	7
C	-0.359467	0.189319	-0.050457	0.026574	-1.89874	0.086803	8
Normalised GNA	-0.935814	0.176956	-0.328131	0.062047	-5.28841	0.000353	13
Initial LAI	Excluded						6
MAP	Excluded						5
Bulk density	Excluded						5
Total N	Excluded						6
Clay	Excluded						4
Net N min	Excluded						0
Normalised Nmin	Excluded						1
Modelled Nmin	Excluded						3
GNA	Excluded						2

Normal probability plot



summary of best 20 models

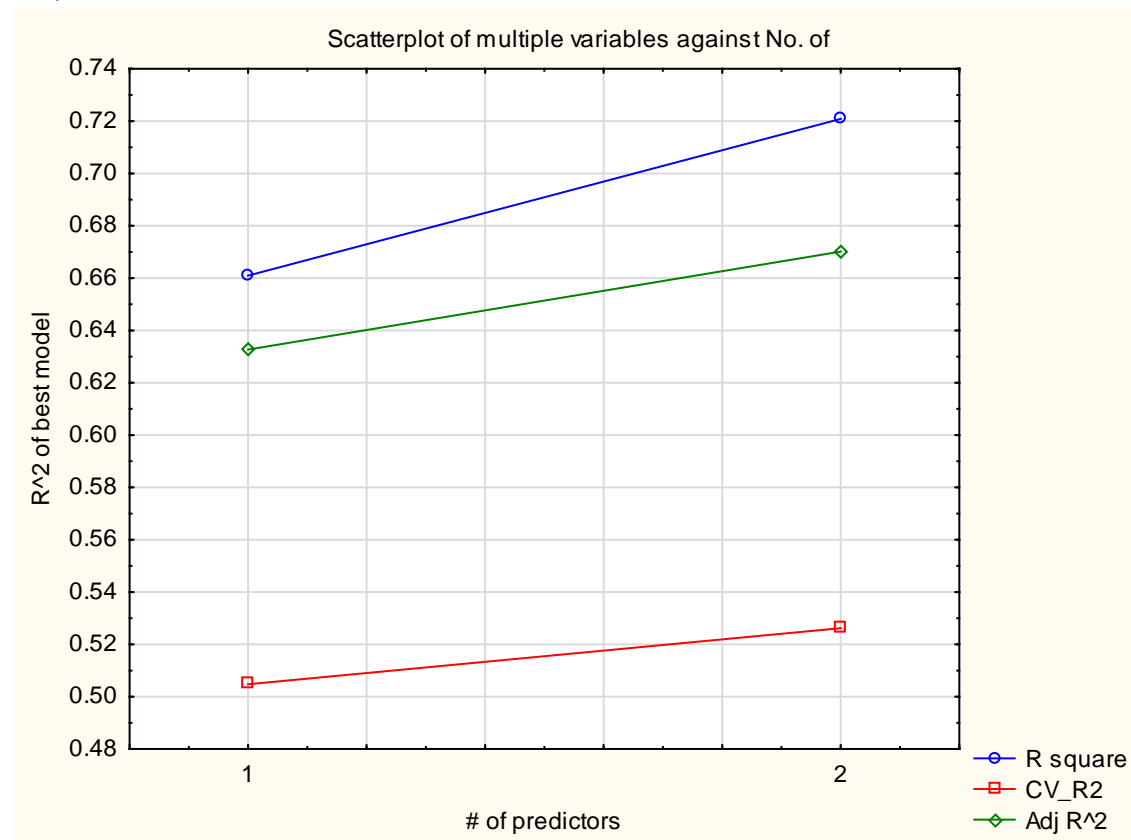


BEST 2 PREDICTORS General Regression Models (GRM) (DATA 20191022)

"Relative yield";

diagnostics

Graph

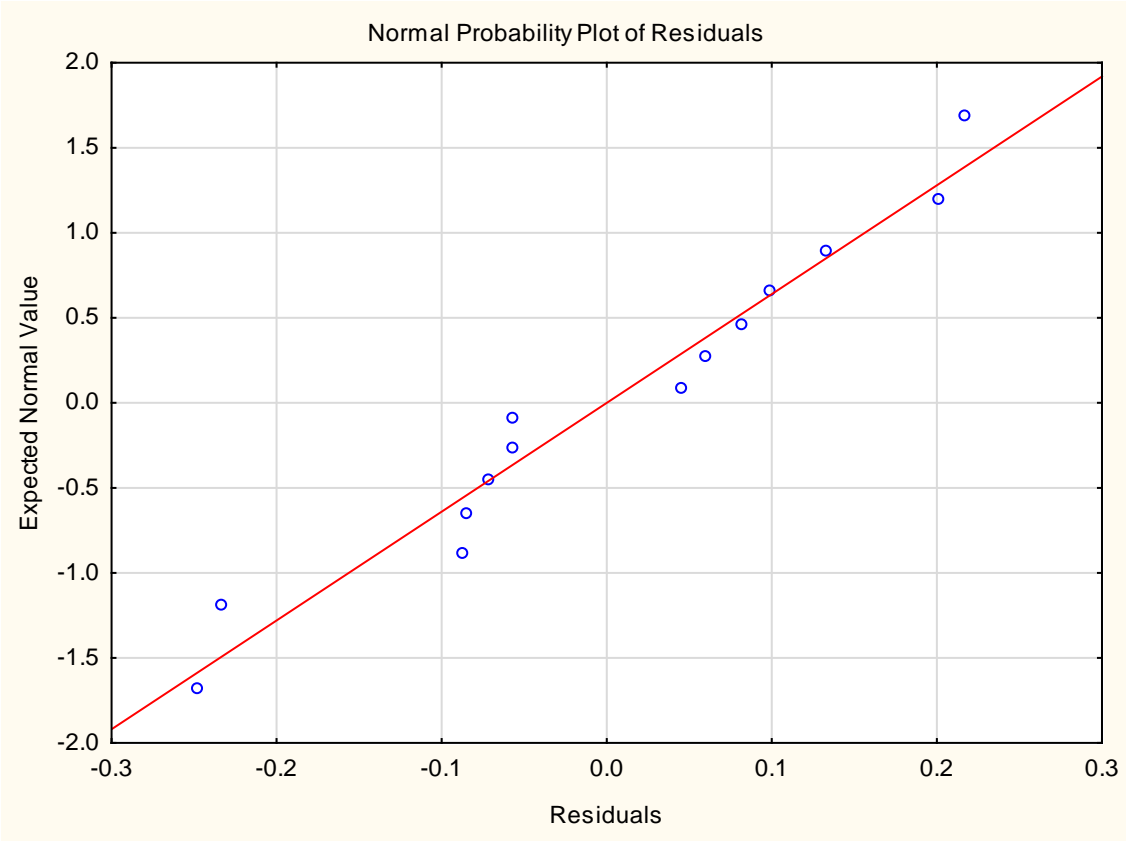


best regression

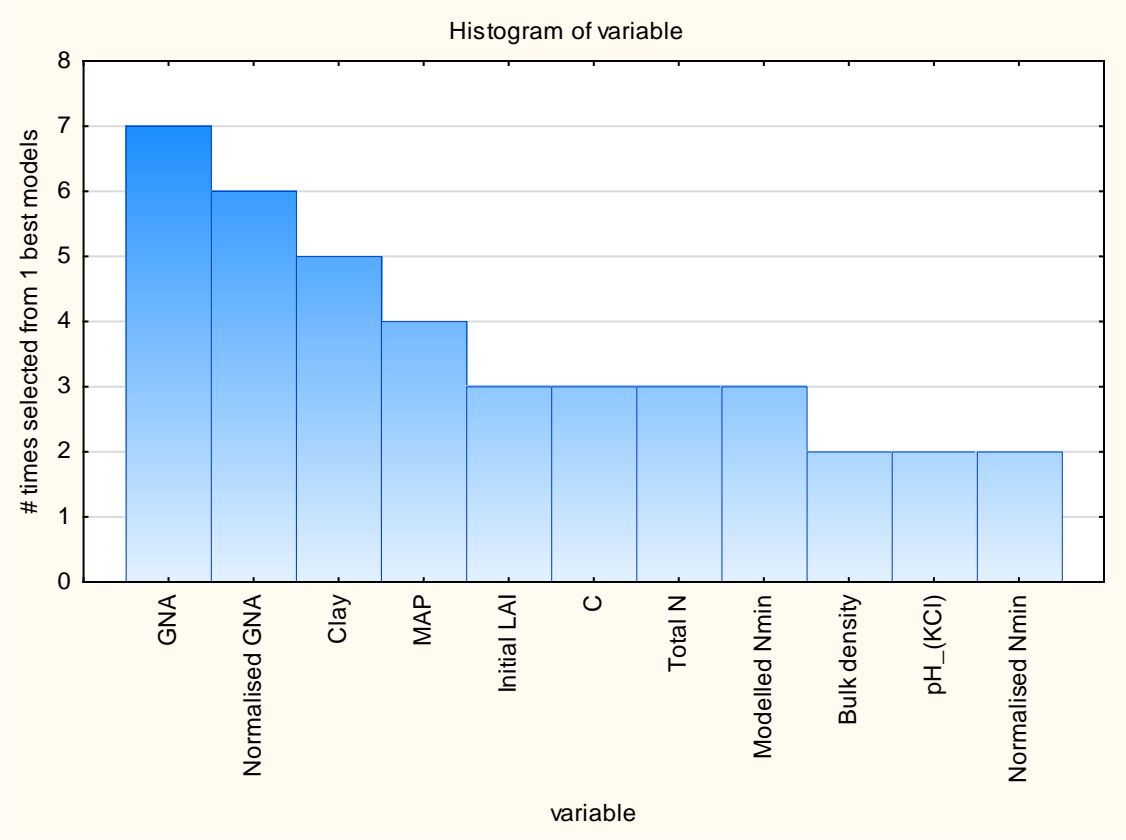
regression table

Regression Summary for Dependent Variable: Relative yield (DATA 20191022) R= .84904230 R ² = .72087283 Adjusted R ² = .67012243 CV-R ² =0.53							
N=14	b*	Std.Err. of b*	b	Std.Err. of b	t(11)	p-value	# times in best 20 models
Intercept			0.903631	0.133463	6.77064	0.000031	
C	-0.247956	0.161344	-0.034804	0.022647	-1.53682	0.152589	3
Normalised GNA	-0.852362	0.161344	-0.298870	0.056573	-5.28290	0.000259	6
Initial LAI	Excluded						3
MAP	Excluded						4
Bulk density	Excluded						2
pH_(KCl)	Excluded						2
Total N	Excluded						3
Clay	Excluded						5
Net N min	Excluded						0
Normalised Nmin	Excluded						2
Modelled Nmin	Excluded						3
GNA	Excluded						7

Normal probability plot



summary of best 20 models



BEST PREDICTOR Multiple Regression (DATA 20191022)

Regression results dialog

Summary Statistics; DV: Relative yield (DATA 20191022)

Statistic	Summary
	Value
Multiple R	0.812983135
Multiple R ²	0.660941578
Adjusted R ²	0.632686709
F(1,12)	23.3921307
p	0.000407435873
Std.Err. of Estimate	0.165286205

Regression Summary for Dependent Variable: Relative yield (DATA 20191022)

N=14	Regression Summary for Dependent Variable: Relative yield (DATA 20191022) R= .81298314 R ² = .66094158 Adjusted R ² = .63268671 F(1,12)=23.392 p<.00041 Std. Error of estimate: .16529					
	b*	Std.Err. of b*	b	Std.Err. of b	t(12)	p-value
Intercept			0.768030	0.105664	7.26861	0.000010
Normalised GNA	-0.812983	0.168092	-0.285062	0.058939	-4.83654	0.000407

Regression residuals dialog

Normal Probability Plot of Residuals

