

Supplementary Materials

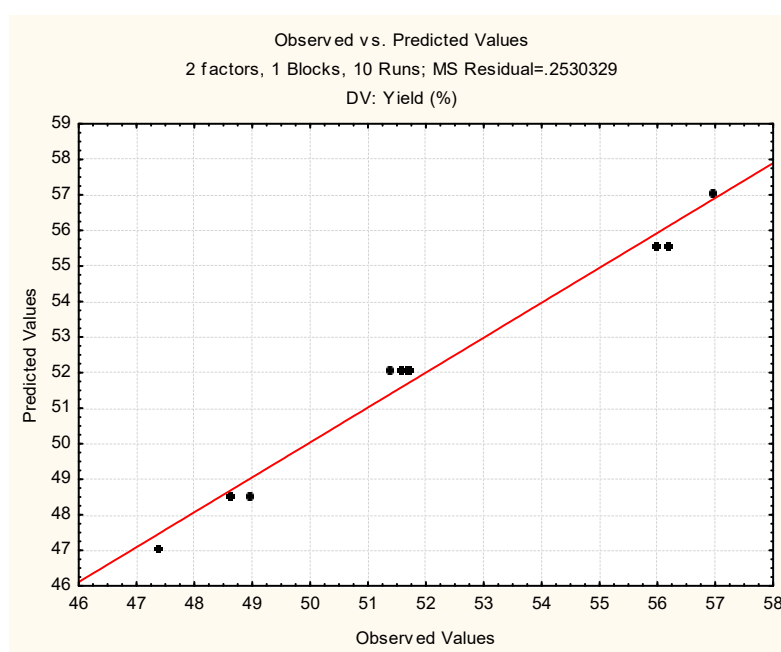
Acacia dealbata

Yield (original model)

Regr. Coeff; Var.:Yield (%); $R^2=0.992$; $R^2_{Adj}=0.982$ (Acacia dealbata) MS Residual=0.203						
	Regressn	Std.Err.	t(4)	p	-95.%	+95.%
Mean/Interc.	221.3659	66.50017	3.32880	0.029138	36.73185	406.0000
(1)Temperature (°C)(L)	-1.2309	0.71101	-1.73123	0.158454	-3.20502	0.7432
Temperature (°C)(Q)	0.0024	0.00211	1.16177	0.309928	-0.00340	0.0083
(2)Active Alkali (% NaO)(L)	-3.9419	1.55277	-2.53861	0.064076	-8.25306	0.3693
Active Alkali (% NaO)(Q)	0.0418	0.02339	1.78746	0.148390	-0.02314	0.1068
1L by 2L	0.0087	0.00750	1.16326	0.309387	-0.01210	0.0296

Yield (final model)

Regr. Coeff; Var.:Yield (%); $R^2=0.982$; $R^2_{Adj}=0.977$ (Acacia dealbata) MS Residual=0.253						
	Regressn	Std.Err.	t(7)	p	-95.%	+95.%
Mean/Interc.	109.7389	3.168922	34.6297	0.000000	102.2455	117.2322
(1)Temperature (°C)(L)	-0.2492	0.017785	-14.0097	0.000002	-0.2912	-0.2071
(2)Active Alkali (% NaO)(L)	-0.8291	0.059282	-13.9860	0.000002	-0.9693	-0.6889



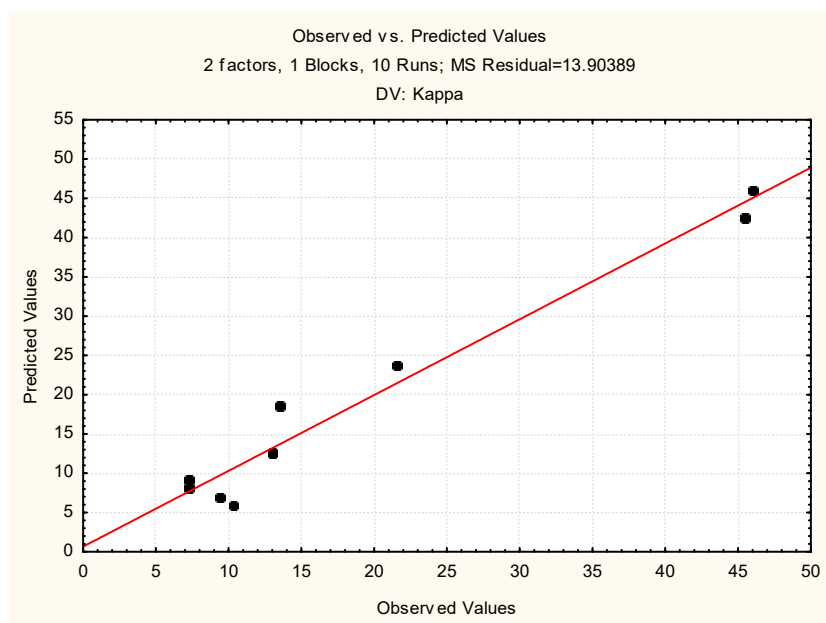
Acacia dealbata

Kappa number (original model)

Regr. Coeff; Var.: Kappa ; $R^2=0.965$; $R^2_{Adj}=0.922$ (Acacia dealbata) MS Residual=17.303						
	Regressn	Std.Err.	t(4)	p	-95.%	+95.%
Mean/Interc.	2812.618	614.4741	4.57728	0.010204	1106.565	4518.672
(1)Temperature (°C)(L)	-28.966	6.5699	-4.40897	0.011610	-47.207	-10.725
Temperature (°C)(Q)	0.073	0.0195	3.76789	0.019640	0.019	0.127
(2)Active Alkali (% NaO)(L)	-28.852	14.3479	-2.01088	0.114684	-68.688	10.984
Active Alkali (% NaO)(Q)	-0.029	0.2162	-0.13316	0.900497	-0.629	0.571
1L by 2L	0.174	0.0693	2.50310	0.066546	-0.019	0.366

Kappa number (final model)

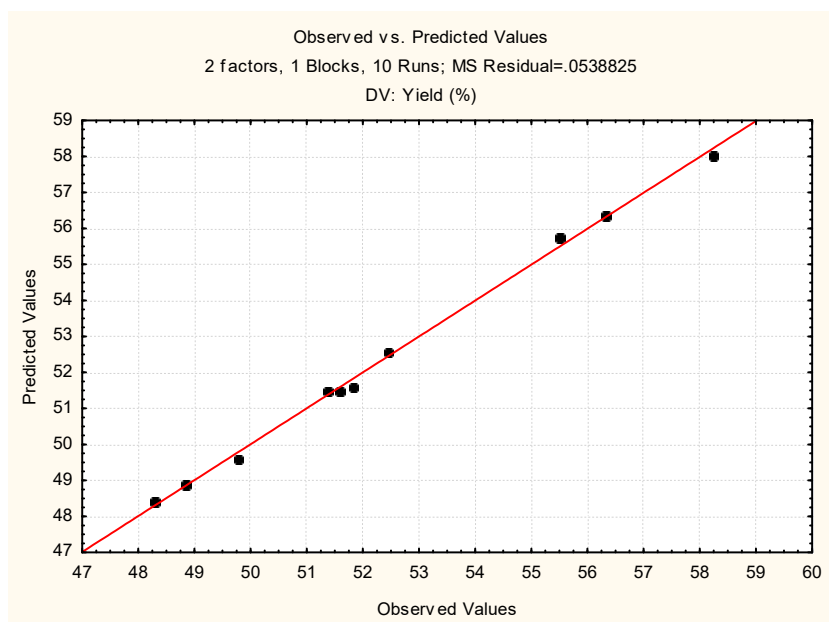
Regr. Coeff; Var.: Kappa ; $R^2=0.965$; $R^2_{Adj}=0.937$ (Acacia dealbata) MS Residual=13.904						
	Regressn	Std.Err.	t(5)	p	-95.%	+95.%
Mean/Interc.	2854.064	474.9308	6.00943	0.001833	1633.215	4074.912
(1)Temperature (°C)(L)	-29.333	5.3479	-5.48490	0.002748	-43.080	-15.586
Temperature (°C)(Q)	0.074	0.0158	4.72268	0.005230	0.034	0.115
(2)Active Alkali (% NaO)(L)	-30.003	10.2636	-2.92328	0.032888	-56.387	-3.620
1L by 2L	0.174	0.0621	2.79237	0.038337	0.014	0.333



Acacia longifolia

Yield (original and final model)

Regr. Coeff; Var.:Yield (%); $R^2=0.998$; $R^2_{Adj}=0.995$ (<i>Acacia longifolia</i>) MS Residual=0.054						
	Regressn	Std.Err.	t(4)	p	-95.%	+95.%
Mean/Interc.	352.0911	34.28977	10.26811	0.000507	256.8874	447.2947
(1)Temperature (°C)(L)	-2.5088	0.36662	-6.84291	0.002386	-3.5267	-1.4909
Temperature (°C)(Q)	0.0057	0.00109	5.22914	0.006387	0.0027	0.0087
(2)Active Alkali (% NaO)(L)	-6.4574	0.80066	-8.06505	0.001284	-8.6804	-4.2344
Active Alkali (% NaO)(Q)	0.0668	0.01206	5.53931	0.005193	0.0333	0.1003
1L by 2L	0.0185	0.00387	4.79359	0.008689	0.0078	0.0293



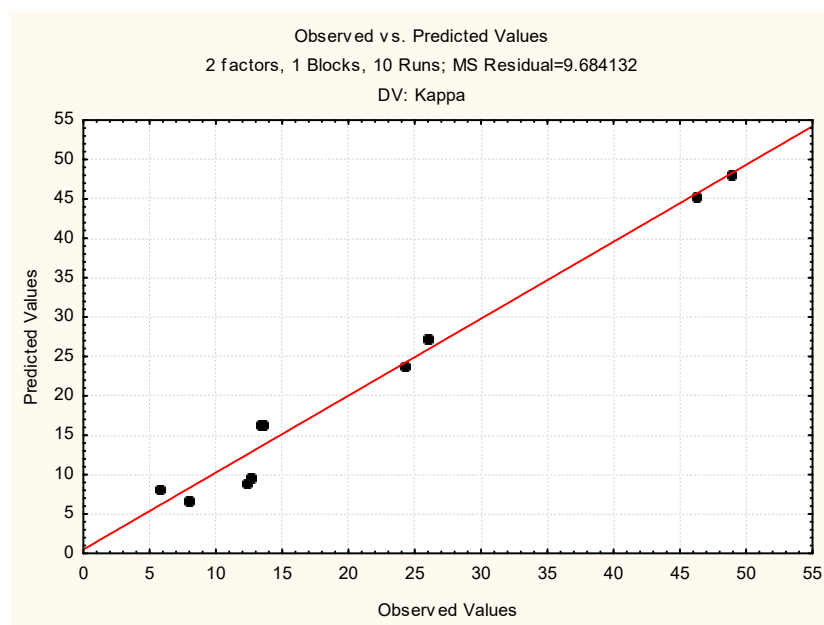
Acacia longifolia

Kappa number (original model)

Regr. Coeff; Var.: Kappa ; $R^2=0.991$; $R^2_{Adj}=0.979$ (Acacia longifolia) MS Residual=4.800						
	Regressn	Std.Err.	t(4)	p	-95.%	+95.%
Mean/Interc.	2728.426	323.6329	8.43062	0.001084	1829.877	3626.975
(1)Temperature (°C)(L)	-27.146	3.4603	-7.84501	0.001426	-36.753	-17.539
Temperature (°C)(Q)	0.070	0.0102	6.85117	0.002376	0.042	0.099
(2)Active Alkali (% NaO)(L)	-34.208	7.5568	-4.52676	0.010604	-55.189	-13.227
Active Alkali (% NaO)(Q)	0.281	0.1139	2.46740	0.069140	-0.035	0.597
1L by 2L	0.129	0.0365	3.52355	0.024372	0.027	0.230

Kappa number (final model)

Regr. Coeff; Var.: Kappa ; $R^2=0.977$; $R^2_{Adj}=0.959$ (Acacia longifolia) MS Residual=9.684						
	Regressn	Std.Err.	t(5)	p	-95.%	+95.%
Mean/Interc.	2323.952	396.3624	5.86320	0.002046	1305.070	3342.834
(1)Temperature (°C)(L)	-23.570	4.4632	-5.28095	0.003242	-35.043	-12.097
Temperature (°C)(Q)	0.059	0.0132	4.51447	0.006315	0.026	0.093
(2)Active Alkali (% NaO)(L)	-22.971	8.5657	-2.68175	0.043728	-44.990	-0.952
1L by 2L	0.129	0.0519	2.48063	0.055798	-0.005	0.262



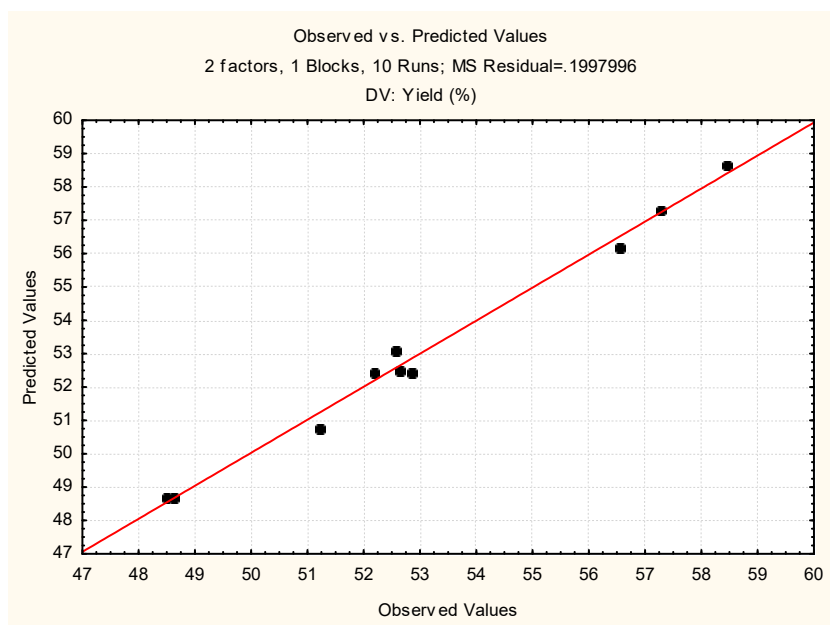
Acacia mearnsii

Yield (original model)

Regr. Coeff; Var.:Yield (%); $R^2=0.991$; $R^2_{Adj}=0.979$ (Acacia mearnsii) MS Residual=0.246						
	Regressn	Std.Err.	t(4)	p	-95.%	+95.%
Mean/Interc.	179.1562	73.30863	2.44386	0.070913	-24.3812	382.6936
(1)Temperature (°C)(L)	-0.3751	0.78381	-0.47860	0.657207	-2.5513	1.8011
Temperature (°C)(Q)	-0.0006	0.00232	-0.23739	0.824014	-0.0070	0.0059
(2)Active Alkali (% NaO)(L)	-6.6249	1.71175	-3.87024	0.017990	-11.3775	-1.8723
Active Alkali (% NaO)(Q)	0.0857	0.02579	3.32466	0.029251	0.0141	0.1573
1L by 2L	0.0147	0.00827	1.77511	0.150540	-0.0083	0.0376

Yield (final model)

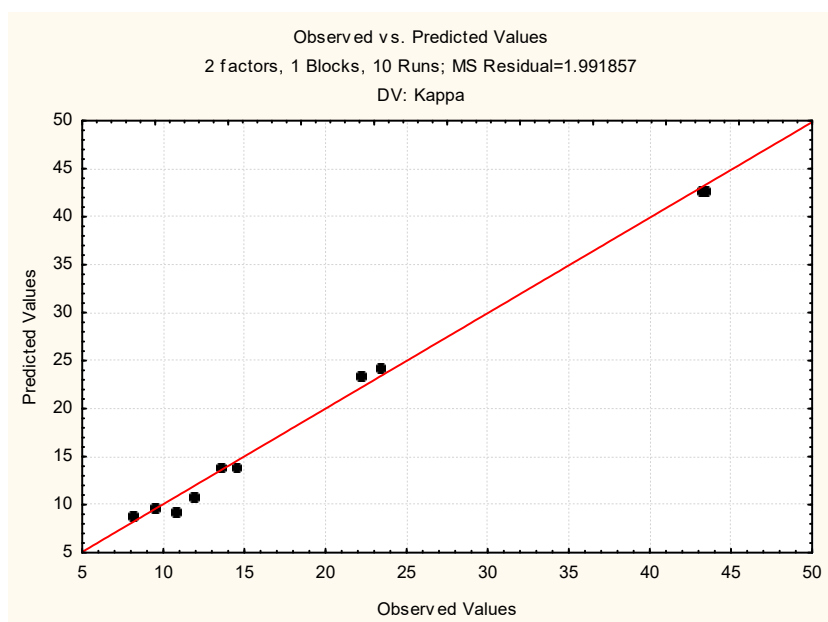
Regr. Coeff; Var.:Yield (%); $R^2=0.990$; $R^2_{Adj}=0.983$ (Acacia mearnsii) MS Residual=0.200						
	Regressn	Std.Err.	t(5)	p	-95.%	+95.%
Mean/Interc.	195.1440	26.08227	7.48186	0.000674	128.0974	262.1906
(1)Temperature (°C)(L)	-0.5570	0.14983	-3.71727	0.013751	-0.9421	-0.1718
(2)Active Alkali (% NaO)(L)	-6.7298	1.48947	-4.51828	0.006293	-10.5586	-2.9010
Active Alkali (% NaO)(Q)	0.0884	0.02099	4.21039	0.008405	0.0344	0.1423
1L by 2L	0.0147	0.00745	1.97080	0.105816	-0.0045	0.0338



Acacia mearnsii

Kappa number (original and final model)

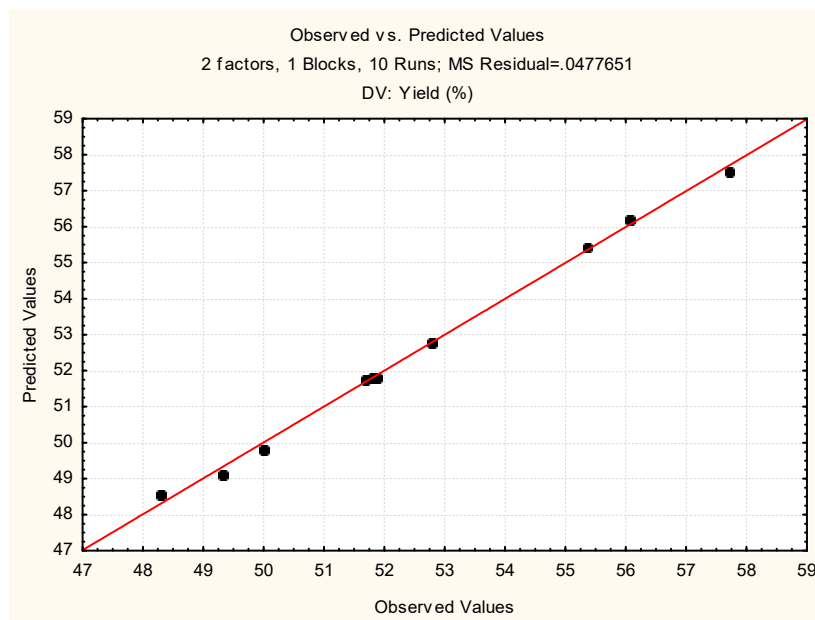
Regr. Coeff; Var.: Kappa ; $R^2=0.995$; $R^2_{Adj}=0.989$ (Acacia mearnsii) MS Residual=1.992						
	Regressn	Std.Err.	t(4)	p	-95.%	+95.%
Mean/Interc.	2439.336	208.4826	11.7004	0.000305	1860.496	3018.177
(1)Temperature (°C)(L)	-24.158	2.2291	-10.8375	0.000411	-30.347	-17.969
Temperature (°C)(Q)	0.061	0.0066	9.2334	0.000765	0.043	0.079
(2)Active Alkali (% NaO)(L)	-31.851	4.8680	-6.5428	0.002820	-45.367	-18.335
Active Alkali (% NaO)(Q)	0.158	0.0733	2.1576	0.097145	-0.045	0.362
1L by 2L	0.144	0.0235	6.1201	0.003610	0.079	0.209



Acacia melanoxylon

Yield (original and final model)

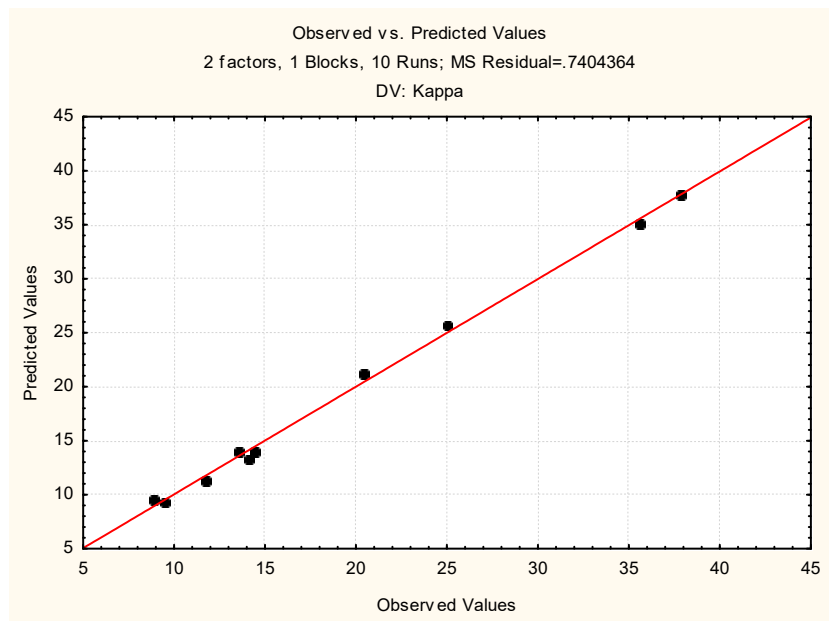
Regr. Coeff; Var.:Yield (%);R ² =0.998; R ² _{Adj} =0.995 (Acacia melanoxylon) MS Residual=0.048						
	Regressn	Std.Err.	t(4)	p	-95.%	+95.%
Mean/Interc.	279.6839	32.28466	8.66306	0.000977	190.0473	369.3204
(1)Temperature (°C)(L)	-1.8729	0.34518	-5.42571	0.005596	-2.8313	-0.9145
Temperature (°C)(Q)	0.0041	0.00102	4.03106	0.015720	0.0013	0.0070
(2)Active Alkali (% NaO)(L)	-4.6032	0.75384	-6.10625	0.003640	-6.6962	-2.5102
Active Alkali (% NaO)(Q)	0.0443	0.01136	3.90061	0.017532	0.0128	0.0758
1L by 2L	0.0131	0.00364	3.60573	0.022642	0.0030	0.0232



Acacia melanoxydon

Kappa number (original and final model)

Regr. Coeff; Var.:Kappa; $R^2=0.997$; $R^2_{Adj}=0.993$ (Acacia melanoxydon) MS Residual=0.740						
	Regressn	Std.Err.	t(4)	p	-95.%	+95.%
Mean/Interc.	1784.607	127.1115	14.0397	0.000149	1431.690	2137.525
(1)Temperature (°C)(L)	-16.810	1.3591	-12.3691	0.000246	-20.584	-13.037
Temperature (°C)(Q)	0.042	0.0040	10.3755	0.000487	0.031	0.053
(2)Active Alkali (% NaO)(L)	-29.208	2.9680	-9.8409	0.000598	-37.449	-20.968
Active Alkali (% NaO)(Q)	0.249	0.0447	5.5758	0.005071	0.125	0.373
1L by 2L	0.106	0.0143	7.4099	0.001770	0.066	0.146



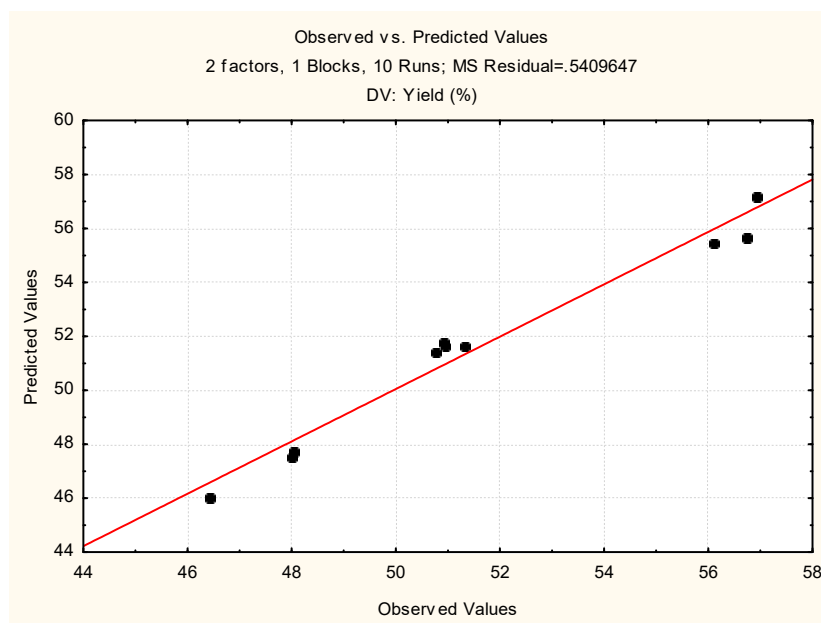
Acacia saligna

Yield (original model)

Regr. Coeff; Var.:Yield (%); $R^2=0.981$; $R^2_{Adj}=0.958$ (Acacia saligna) MS Residual=0.600						
	Regressn	Std.Err.	t(4)	p	-95.%	+95.%
Mean/Interc.	276.1580	114.3941	2.41409	0.073230	-41.4510	593.7670
(1)Temperature (°C)(L)	-1.8131	1.2231	-1.48236	0.212382	-5.2089	1.5828
Temperature (°C)(Q)	0.0038	0.0036	1.04208	0.356213	-0.0063	0.0138
(2)Active Alkali (% NaO)(L)	-4.2669	2.6711	-1.59743	0.185410	-11.6830	3.1493
Active Alkali (% NaO)(Q)	0.0263	0.0402	0.65262	0.549610	-0.0855	0.1380
1L by 2L	0.0140	0.0129	1.08472	0.339051	-0.0218	0.0498

Yield (final model)

Regr. Coeff; Var.:Yield (%); $R^2=0.971$; $R^2_{Adj}=0.962$ (Acacia saligna) MS Residual=0.541						
	Regressn	Std.Err.	t(7)	p	-95.%	+95.%
Mean/Interc.	117.1879	4.633483	25.2915	0.000000	106.2315	128.1444
(1)Temperature (°C)(L)	-0.2875	0.026004	-11.0573	0.000011	-0.3490	-0.2260
(2)Active Alkali (% NaO)(L)	-0.9063	0.086680	-10.4561	0.000016	-1.1113	-0.7014



Acacia saligna

Kappa number (original and final model)

Regr. Coeff; Var.: Kappa (%) ; $R^2=0.999$; $R^2_{Adj}=0.998$ (Acacia saligna) MS Residual=0.765						
	Regressn	Std.Err.	t(4)	p	-95.%	+95.%
Mean/Interc.	2870.636	129.2328	22.2129	0.000024	2511.828	3229.444
(1)Temperature (°C)(L)	-28.706	1.3817	-20.7751	0.000032	-32.542	-24.870
Temperature (°C)(Q)	0.074	0.0041	18.0296	0.000056	0.062	0.085
(2)Active Alkali (% NaO)(L)	-31.828	3.0176	-10.5475	0.000457	-40.206	-23.450
Active Alkali (% NaO)(Q)	0.225	0.0455	4.9563	0.007726	0.099	0.352
1L by 2L	0.129	0.0146	8.8176	0.000913	0.088	0.169

