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Analysis Summary

File name: C:\Documents and Settings\Edward A. Moscoso\Mis documentos\Statgraphics\CB_706B_SQ_0

Estimated effects for Ol y Ona 706

average	= 316,109	+/- 0,580976
A:Carga	= 25,7856	+/- 1,28724
B:Vapor_E530	= 11,8893	+/- 1,28724
C:Presión_C525	= 8,39259	+/- 1,28724
D:Nivel_V540	= -19,8404	+/- 1,28724
E:Vapor_E532	= -4,16519	+/- 1,28724
AA	= -3,29358	+/- 0,743187
AB	= 8,20222	+/- 0,525513
AC	= -8,38833	+/- 0,525513
AD	= -0,403889	+/- 0,525513
AE	= 1,65278	+/- 0,525513
BB	= -5,0721	+/- 0,743187
BC	= 13,1985	+/- 0,525513
BD	= -0,0422222	+/- 0,525513
BE	= -3,565	+/- 0,525513
CC	= -12,7306	+/- 0,743187
CD	= 2,27296	+/- 0,525513
CE	= 6,70981	+/- 0,525513
DD	= 0,793457	+/- 0,743187
DE	= -1,245	+/- 0,525513
EE	= -1,61802	+/- 0,743187
AAB	= 1,57741	+/- 0,910215
AAC	= -1,83796	+/- 0,910215
AAD	= -0,453519	+/- 0,910215
AAE	= 0,0883333	+/- 0,910215
ABB	= -0,807778	+/- 0,910215
ABC	= 4,60667	+/- 0,643619
ABD	= -0,805278	+/- 0,643619
ABE	= -0,173889	+/- 0,643619
ACC	= -3,21167	+/- 0,910215
ACD	= 0,869722	+/- 0,643619
ACE	= 3,34917	+/- 0,643619
ADD	= 0,0138889	+/- 0,910215
ADE	= -1,80222	+/- 0,643619
AEE	= -1,68278	+/- 0,910215
BBC	= -2,96963	+/- 0,910215
BBD	= 0,297037	+/- 0,910215
BBE	= -0,507222	+/- 0,910215
BCC	= 2,95519	+/- 0,910215
BCD	= -1,7875	+/- 0,643619
BCE	= -1,93972	+/- 0,643619
BDD	= -1,33926	+/- 0,910215
BDE	= 0,701389	+/- 0,643619
BEE	= 0,017963	+/- 0,910215
CCD	= -0,462963	+/- 0,910215
CCE	= -2,24278	+/- 0,910215
CDD	= -0,322963	+/- 0,910215
CDE	= 1,24806	+/- 0,643619
CEE	= 3,40093	+/- 0,910215
DDE	= -0,356111	+/- 0,910215
DEE	= -1,52685	+/- 0,910215

Standard errors are based on total error with 192 d.f.

The StatAdvisor

   This table shows each of the estimated effects and interactions. Also shown is the standard error of each of the effects, which measures their sampling error. To plot the estimates in decreasing order of importance, select Pareto Charts from the list of Graphical Options. To test the statistical significance of the effects, select ANOVA Table from the list of Tabular Options. You can then remove insignificant effects by pressing the alternate mouse button, selecting Analysis Options, and pressing the Exclude button.

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Analysis of Variance for Ol y Ona 706

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
A:Carga	2992,03	1	2992,03	401,27	0,0000
B:Vapor E530	636,095	1	636,095	85,31	0,0000
C:Presión C525	316,96	1	316,96	42,51	0,0000
D:Nivel V540	1771,38	1	1771,38	237,56	0,0000
E:Vapor_E532	78,0695	1	78,0695	10,47	0,0014
AA	146,444	1	146,444	19,64	0,0000
AB	1816,46	1	1816,46	243,61	0,0000
AC	1899,83	1	1899,83	254,79	0,0000
AD	4,40441	1	4,40441	0,59	0,4431
AE	73,7552	1	73,7552	9,89	0,0019
BB	347,304	1	347,304	46,58	0,0000
BC	4703,42	1	4703,42	630,79	0,0000
BD	0,0481333	1	0,0481333	0,01	0,9360
BE	343,149	1	343,149	46,02	0,0000
CC	2187,93	1	2187,93	293,43	0,0000
CD	139,492	1	139,492	18,71	0,0000
CE	1215,58	1	1215,58	163,03	0,0000
DD	8,49924	1	8,49924	1,14	0,2870
DE	41,8507	1	41,8507	5,61	0,0188
EE	35,3431	1	35,3431	4,74	0,0307
AAB	22,3939	1	22,3939	3,00	0,0847
AAC	30,403	1	30,403	4,08	0,0449
AAD	1,85111	1	1,85111	0,25	0,6189
AAE	0,070225	1	0,070225	0,01	0,9228
ABB	5,87254	1	5,87254	0,79	0,3759
ABC	381,985	1	381,985	51,23	0,0000
ABD	11,6725	1	11,6725	1,57	0,2124
ABE	0,544272	1	0,544272	0,07	0,7873
ACC	92,8332	1	92,8332	12,45	0,0005
ACD	13,6155	1	13,6155	1,83	0,1782
ACE	201,905	1	201,905	27,08	0,0000
ADD	0,00173611	1	0,00173611	0,00	0,9878
ADE	58,4641	1	58,4641	7,84	0,0056
AEE	25,4857	1	25,4857	3,42	0,0660
BBC	79,3683	1	79,3683	10,64	0,0013
BBD	0,794079	1	0,794079	0,11	0,7445
BBE	2,31547	1	2,31547	0,31	0,5780
BCC	78,5981	1	78,5981	10,54	0,0014
BCD	57,5128	1	57,5128	7,71	0,0060
BCE	67,7254	1	67,7254	9,08	0,0029
BDD	16,1425	1	16,1425	2,16	0,1428
BDE	8,85503	1	8,85503	1,19	0,2772
BEE	0,00290401	1	0,00290401	0,00	0,9843
CCD	1,92901	1	1,92901	0,26	0,6116
CCE	45,2705	1	45,2705	6,07	0,0146
CDD	0,938746	1	0,938746	0,13	0,7231
CDE	28,0376	1	28,0376	3,76	0,0540
CEE	104,097	1	104,097	13,96	0,0002
DDE	1,14134	1	1,14134	0,15	0,6961
DEE	20,9815	1	20,9815	2,81	0,0951
Total error	1431,63	192	7,45641		
Total (corr.)	65311,1	242			

R-squared = 97,808 percent
R-squared (adjusted for d.f.) = 97,2371 percent
Standard Error of Est. = 2,73064
Mean absolute error = 1,81351
Durbin-Watson statistic = 1,94494 (P=0,3344)
Lag 1 residual autocorrelation = 0,0253147

The StatAdvisor

The ANOVA table partitions the variability in Ol y Ona 706 into separate pieces for each of the effects. It then tests the statistical significance of each effect by comparing the mean square against an estimate of the experimental error. In this case, 28

effects have P-values less than 0,05, indicating that they are significantly different from zero at the 95,0% confidence level.

The R-Squared statistic indicates that the model as fitted explains 97,808% of the variability in Ol y Ona 706. The adjusted R-squared statistic, which is more suitable for comparing models with different numbers of independent variables, is 97,2371%. The standard error of the estimate shows the standard deviation of the residuals to be 2,73064. The mean absolute error (MAE) of 1,81351 is the average value of the residuals. The Durbin-Watson (DW) statistic tests the residuals to determine if there is any significant correlation based on the order in which they occur in your data file. Since the P-value is greater than 0.05, there is no indication of serial autocorrelation in the residuals.

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Regression coeffs. for Ol y Ona 706

constant	= 316,109
A:Carga	= 12,8928
B:Vapor E530	= 5,94463
C:Presión C525	= 4,1963
D:Nivel V540	= -9,92019
E:Vapor E532	= -2,08259
AA	= -1,64679
AB	= 4,10111
AC	= -4,19417
AD	= -0,201944
AE	= 0,826389
BB	= -2,53605
BC	= 6,59926
BD	= -0,0211111
BE	= -1,7825
CC	= -6,36531
CD	= 1,13648
CE	= 3,35491
DD	= 0,396728
DE	= -0,6225
EE	= -0,809012
AAB	= 0,0
AAC	= 0,0
AAD	= 0,0
AAE	= 0,0
ABB	= -0,403889
ACC	= -1,60583
ADD	= 0,00694444
AEE	= -0,841389
BBC	= 0,0
BBD	= 0,0
BBE	= 0,0
BCC	= 1,47759
BDD	= -0,66963
BEE	= 0,00898148
CCD	= 0,0
CCE	= 0,0
CDD	= -0,161481
CEE	= 1,70046
DDE	= 0,0
DEE	= -0,763426
ABC	= 0,688241
ABD	= 0,307824
ABE	= 0,492315
ACD	= -0,942361
ACE	= -0,32162
ADE	= -1,26176
BCD	= -2,46153
BCE	= -3,82968
BDE	= 0,0675463
CDE	= -0,906898

The StatAdvisor

This pane displays the regression equation which has been fitted to the data. The equation of the fitted model is

Ol_y_Ona_706 = 316,109 + 12,8928*Carga + 5,94463*Vapor_E530 +
4,1963*Presión C525 - 9,92019*Nivel V540 - 2,08259*Vapor_E532 -
1,64679*Carga^2 + 4,10111*Carga*Vapor E530 -
4,19417*Carga*Presión C525 - 0,201944*Carga*Nivel V540 +
0,826389*Carga*Vapor E532 - 2,53605*Vapor E530^2 +
6,59926*Vapor E530*Presión C525 - 0,0211111*Vapor E530*Nivel_V540 -
1,7825*Vapor E530*Vapor E532 - 6,36531*Presión C525^2 +
1,13648*Presión C525*Nivel V540 + 3,35491*Presión C525*Vapor_E532 +
0,396728*Nivel V540^2 - 0,6225*Nivel V540*Vapor E532 -
0,809012*Vapor E532^2 + 0,0*Carga^2*Vapor E530 +
0,0*Carga^2*Presión_C525 + 0,0*Carga^2*Nivel_V540 +
0,0*Carga^2*Vapor_E532 - 0,403889*Carga*Vapor_E530^2 +

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0,688241*Carga*Vapor E530*Presión C525 +
0,307824*Carga*Vapor E530*Nivel V540 +
0,492315*Carga*Vapor E530*Vapor E532 - 1,60583*Carga*Presión_C525^2 -
0,942361*Carga*Presión C525*Nivel V540 -
0,32162*Carga*Presión C525*Vapor E532 + 0,00694444*Carga*Nivel V540^2
- 1,26176*Carga*Nivel V540*Vapor E532 - 0,841389*Carga*Vapor E532^2 +
0,0*Vapor E530^2*Presión C525 + 0,0*Vapor E530^2*Nivel V540 +
0,0*Vapor E530^2*Vapor E532 + 1,47759*Vapor E530*Presión_C525^2 -
2,46153*Vapor_E530*Presión_C525*Nivel_V540 -
3,82968*Vapor_E530*Presión_C525*Vapor_E532 -
0,66963*Vapor_E530*Nivel_V540^2 +
0,0675463*Vapor_E530*Nivel_V540*Vapor_E532 +
0,00898148*Vapor E530*Vapor E532^2 + 0,0*Presión C525^2*Nivel V540 +
0,0*Presión C525^2*Vapor E532 - 0,161481*Presión_C525*Nivel_V540^2 -
0,906898*Presión C525*Nivel V540*Vapor E532 +
1,70046*Presión C525*Vapor E532^2 + 0,0*Nivel_V540^2*Vapor_E532 -
0,763426*Nivel_V540*Vapor_E532^2

where the values of the variables are specified in their original units. To have STATGRAPHICS evaluate this function, select Predictions from the list of Tabular Options. To plot the function, select Response Plots from the list of Graphical Options.

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Estimation Results for Ol y Ona 706

Row	Observed Value	Fitted Value	Lower 95,0% CL for Mean	Upper 95,0% CL for Mean
1	304,95	305,866	302,733	309,0
2	321,02	319,739	317,086	322,393
3	329,44	330,945	327,811	334,078
4	304,79	305,363	302,709	308,017
5	321,4	321,139	318,857	323,421
6	336,5	335,824	333,17	338,478
7	304,6	303,775	300,641	306,908
8	320,46	320,645	317,992	323,299
9	337,24	338,003	334,87	341,136
10	316,28	310,359	307,705	313,012
11	319,54	318,15	315,868	320,432
12	316,65	321,435	318,781	324,089
13	316,19	316,022	313,74	318,304
14	332,15	328,019	326,042	329,996
15	337,78	337,088	334,805	339,37
16	315,2	317,631	314,977	320,285
17	331,86	333,026	330,744	335,308
18	349,84	347,07	344,416	349,724
19	303,62	305,083	301,949	308,216
20	301,93	303,58	300,926	306,234
21	297,02	295,733	292,6	298,867
22	319,58	319,868	317,214	322,522
23	322,02	324,874	322,592	327,156
24	323,61	325,115	322,461	327,768
25	325,01	327,629	324,496	330,763
26	341,25	338,337	335,684	340,991
27	344,65	345,856	342,723	348,99
28	292,77	292,395	289,741	295,049
29	308,26	307,155	304,873	309,437
30	318,35	318,794	316,14	321,448
31	290,47	293,337	291,055	295,619
32	308,48	309,597	307,62	311,575
33	326,3	324,313	322,031	326,595
34	293,65	293,492	290,838	296,146
35	309,6	310,444	308,162	312,726
36	327,96	327,43	324,776	330,084
37	303,73	298,252	295,97	300,534
38	305,21	307,364	305,387	309,342
39	311,42	311,518	309,236	313,8
40	303,99	304,467	302,49	306,444
41	320,41	317,383	315,726	319,04
42	326,22	326,917	324,94	328,894
43	306,6	306,925	304,643	309,207
44	322,78	322,837	320,859	324,814
45	338,77	336,944	334,662	339,226
46	288,8	293,877	291,223	296,531
47	292,45	294,131	291,849	296,413
48	293,98	287,587	284,934	290,241
49	312,27	308,321	306,039	310,603
50	313,47	314,681	312,704	316,658
51	313,48	315,821	313,539	318,104
52	313,79	316,037	313,384	318,691
53	327,48	327,697	325,415	329,979
54	335,93	335,713	333,059	338,367
55	281,15	281,722	278,588	284,855
56	297,38	297,382	294,729	300,036
57	306,87	309,468	306,335	312,602
58	283,81	282,771	280,117	285,424
59	298,64	299,528	297,246	301,811
60	315,14	314,289	311,635	316,943
61	283,79	283,329	280,195	286,462
62	299,6	300,376	297,722	303,03
63	315,64	317,004	313,87	320,137
64	290,55	288,62	285,966	291,274
65	295,54	299,068	296,786	301,35
66	301,62	304,104	301,45	306,757
67	293,05	294,048	291,766	296,33
68	310,51	307,897	305,919	309,874

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69	317,61	317,91	315,628	320,192
70	296,95	296,016	293,362	298,67
71	311,79	312,457	310,175	314,74
72	327,66	326,641	323,987	329,295
73	278,42	284,824	281,69	287,957
74	294,47	286,848	284,194	289,502
75	284,06	281,621	278,488	284,755
76	301,35	297,586	294,932	300,24
77	303,63	305,314	303,032	307,596
78	302,29	307,369	304,715	310,023
79	303,2	303,919	300,785	307,052
80	318,83	316,543	313,889	319,197
81	326,58	325,071	321,938	328,205
82	300,33	302,103	299,45	304,757
83	315,53	316,914	314,632	319,196
84	332,71	329,145	326,491	331,798
85	299,17	300,768	298,486	303,05
86	315,24	317,394	315,417	319,371
87	331,96	333,018	330,736	335,3
88	299,99	297,841	295,188	300,495
89	314,99	315,475	313,193	317,757
90	332,99	333,684	331,03	336,338
91	310,3	308,043	305,761	310,325
92	318,9	318,446	316,468	320,423
93	321,02	324,431	322,149	326,713
94	310,06	311,905	309,927	313,882
95	326,93	326,426	324,769	328,083
96	338,97	338,108	336,131	340,085
97	310,62	311,205	308,923	313,487
98	329,32	329,038	327,061	331,015
99	345,78	345,608	343,326	347,89
100	300,51	301,971	299,317	304,625
101	303,19	304,755	302,473	307,037
102	305,88	301,283	298,629	303,937
103	317,95	313,985	311,703	316,267
104	321,72	323,191	321,214	325,168
105	324,89	327,719	325,437	330,001
106	319,36	318,468	315,814	321,122
107	336,32	333,288	331,006	335,57
108	347,78	345,008	342,354	347,662
109	287,29	288,878	286,596	291,16
110	303,95	303,674	301,696	305,651
111	318,63	315,437	313,155	317,719
112	288,79	289,339	287,362	291,316
113	304,28	305,548	303,891	307,205
114	319,58	320,301	318,324	322,278
115	289,74	288,505	286,223	290,788
116	306,75	305,32	303,342	307,297
117	321,41	322,255	319,973	324,538
118	297,05	296,806	294,828	298,783
119	302,49	307,629	305,972	309,286
120	308,1	313,581	311,604	315,558
121	300,19	301,57	299,913	303,227
122	317,48	316,109	314,964	317,255
123	331,05	327,355	325,698	329,012
124	301,84	302,07	300,093	304,047
125	318,37	319,518	317,861	321,175
126	329,2	335,25	333,273	337,227
127	291,97	292,259	289,977	294,541
128	294,42	295,898	293,921	297,875
129	296,07	292,828	290,546	295,11
130	308,97	304,282	302,305	306,259
131	315,21	313,94	312,283	315,597
132	316,12	318,467	316,49	320,445
133	310,09	309,071	306,789	311,353
134	324,86	323,941	321,964	325,918
135	334,81	335,257	332,975	337,539
136	277,22	278,094	275,44	280,748
137	294,87	292,889	290,607	295,171
138	311,17	304,198	301,544	306,852
139	279,2	279,012	276,73	281,294
140	295,29	294,818	292,841	296,795
141	311,72	308,715	306,433	310,997

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142	279,3	278,933	276,279	281,587
143	294,85	294,941	292,659	297,223
144	312,6	310,618	307,964	313,272
145	289,0	287,687	285,405	289,969
146	295,73	298,945	296,967	300,922
147	301,26	304,878	302,596	307,16
148	290,39	292,015	290,037	293,992
149	305,83	306,586	304,929	308,243
150	321,4	317,41	315,433	319,387
151	291,73	292,375	290,093	294,657
152	307,56	309,452	307,475	311,43
153	322,77	324,36	322,078	326,642
154	286,68	284,343	281,689	286,997
155	286,68	288,851	286,569	291,133
156	289,49	286,197	283,543	288,851
157	294,6	295,035	292,753	297,317
158	305,05	305,161	303,183	307,138
159	305,28	309,701	307,419	311,983
160	298,96	298,791	296,137	301,445
161	314,17	313,725	311,443	316,007
162	322,77	324,652	321,998	327,306
163	295,18	296,513	293,38	299,647
164	310,58	310,578	307,924	313,232
165	325,73	322,151	319,018	325,285
166	294,21	294,364	291,711	297,018
167	309,49	310,158	307,876	312,44
168	324,17	325,037	322,383	327,691
169	293,18	290,117	286,983	293,25
170	308,01	306,831	304,177	309,485
171	322,97	324,209	321,075	327,342
172	305,28	307,301	304,647	309,955
173	321,14	318,633	316,351	320,915
174	324,48	325,635	322,981	328,289
175	306,7	309,379	307,097	311,661
176	321,68	324,743	322,765	326,72
177	340,29	337,355	335,073	339,637
178	308,26	306,389	303,735	309,042
179	323,67	324,976	322,694	327,258
180	341,46	342,39	339,736	345,044
181	306,54	303,834	300,701	306,968
182	305,68	309,221	306,568	311,875
183	308,92	308,441	305,308	311,575
184	314,89	313,095	310,441	315,749
185	332,4	324,817	322,535	327,099
186	327,86	331,95	329,296	334,604
187	310,63	314,317	311,183	317,45
188	327,17	331,567	328,913	334,221
189	347,64	345,804	342,671	348,938
190	282,85	282,006	279,352	284,66
191	298,89	295,155	292,873	297,437
192	301,04	305,36	302,706	308,014
193	282,13	282,004	279,722	284,286
194	296,23	296,479	294,502	298,457
195	310,66	309,587	307,305	311,869
196	281,17	280,201	277,547	282,854
197	295,35	295,194	292,912	297,476
198	309,56	310,397	307,744	313,051
199	295,54	295,406	293,124	297,688
200	307,9	306,257	304,28	308,234
201	312,97	312,325	310,043	314,608
202	296,15	298,737	296,76	300,715
203	313,71	313,218	311,561	314,875
204	329,35	324,493	322,516	326,47
205	297,86	297,297	295,015	299,579
206	313,48	314,599	312,622	316,577
207	330,16	330,273	327,991	332,555
208	294,07	294,089	291,435	296,743
209	298,88	299,43	297,148	301,712
210	295,04	298,151	295,497	300,805
211	301,48	303,709	301,427	305,991
212	318,39	314,983	313,006	316,96
213	319,56	321,214	318,932	323,496
214	305,3	305,588	302,934	308,241

Análisis de la Corriente, 706B (Experimento para determinación de Curvatura)
CB_706B_SQ_03252006.sgp (CB_706B_SQ_03262006.sfx)
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215	322,13	321,986	319,704	324,269
216	336,4	334,92	332,266	337,573
217	271,36	269,585	266,451	272,718
218	283,5	281,832	279,178	284,486
219	281,55	290,682	287,548	293,815
220	269,5	270,391	267,737	273,044
221	282,94	283,562	281,28	285,844
222	293,66	294,912	292,258	297,566
223	268,95	269,692	266,558	272,825
224	281,88	282,978	280,324	285,632
225	295,39	296,021	292,888	299,155
226	284,81	285,274	282,62	287,928
227	298,95	295,658	293,376	297,94
228	303,33	300,806	298,152	303,46
229	286,65	288,519	286,237	290,801
230	302,16	302,13	300,153	304,108
231	316,63	312,083	309,801	314,365
232	288,35	287,29	284,636	289,944
233	303,37	303,32	301,038	305,602
234	319,16	317,269	314,615	319,923
235	286,48	285,783	282,65	288,917
236	288,68	291,093	288,439	293,747
237	291,02	289,328	286,195	292,461
238	294,27	294,423	291,77	297,077
239	305,25	305,263	302,981	307,545
240	307,08	310,606	307,952	313,26
241	296,16	295,62	292,486	298,753
242	310,28	311,181	308,527	313,835
243	325,17	322,824	319,69	325,957

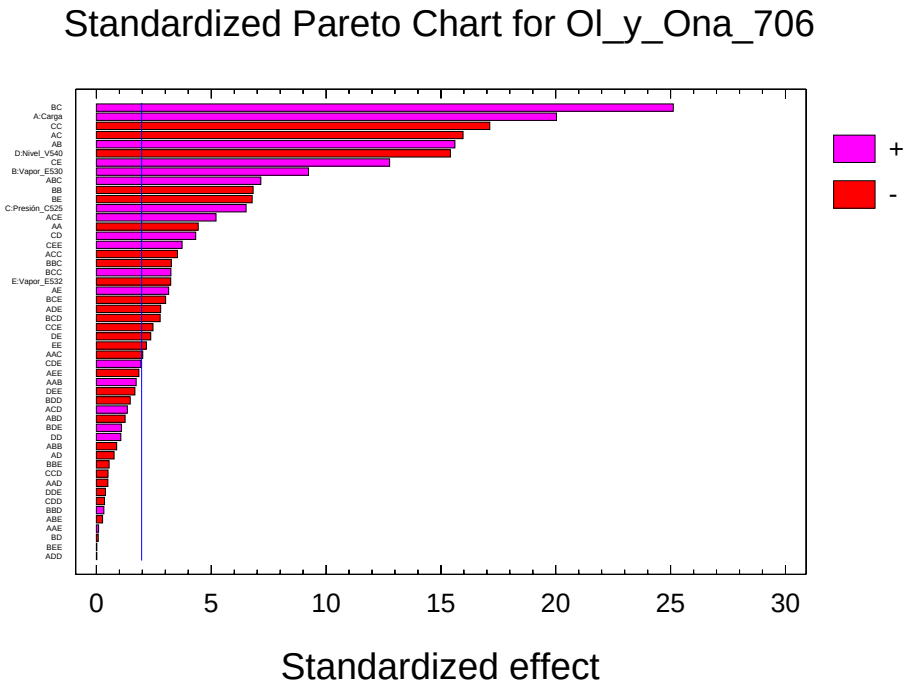
The StatAdvisor

This table contains information about values of Ol_y_Ona_706 generated using the fitted model. The table includes:

(1) the observed value of Ol y Ona 706 (if any)
(2) the predicted value of Ol y Ona 706 using the fitted model
(3) 95,0% confidence limits for the mean response

Each item corresponds to the values of the experimental factors in a specific row of your data file. To generate forecasts for additional combinations of the factors, add additional rows to the bottom of your data file. In each new row, enter values for the experimental factors but leave the cell for the response empty. When you return to this pane, forecasts will be added to the table for the new rows, but the model will be unaffected.

Análisis de la Corriente, 706B (Experimento para determinación de Curvatura)
CB_706B_SQ_03252006.sgp (CB_706B_SQ_03262006.sfx)
15/04/2006 3:54 p.m.



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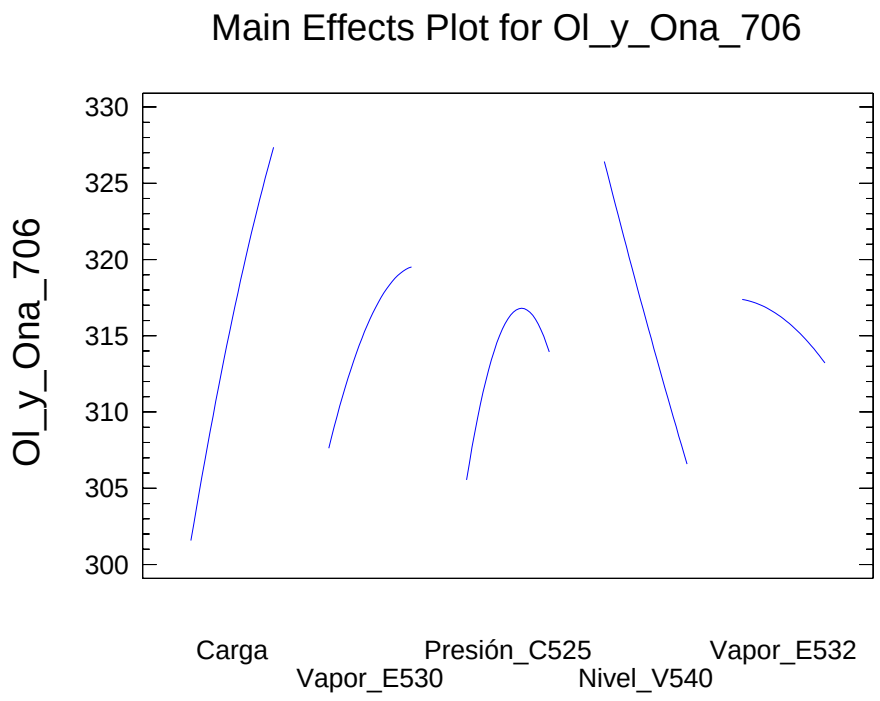
2006 3:54 p.m.



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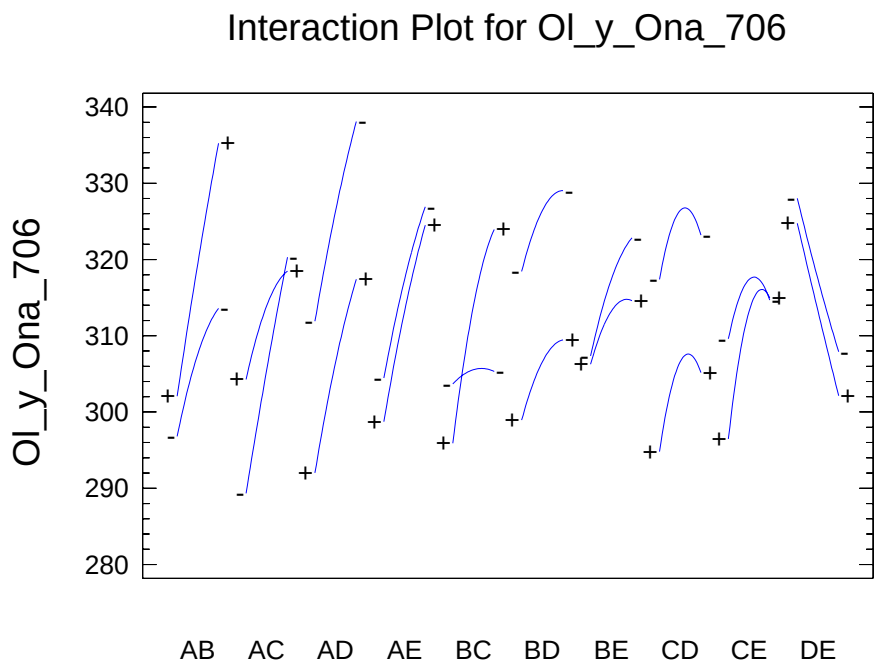

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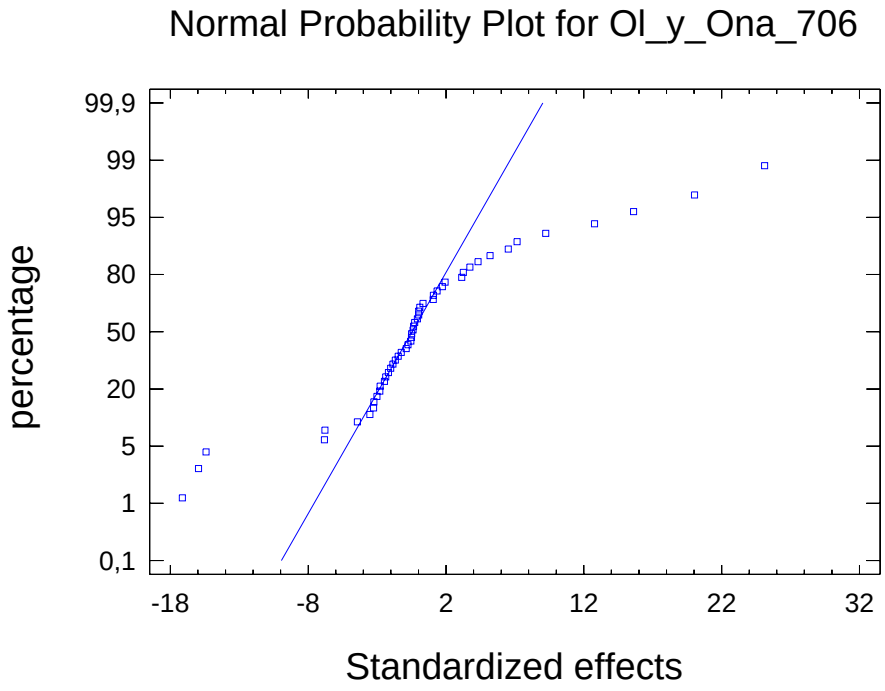

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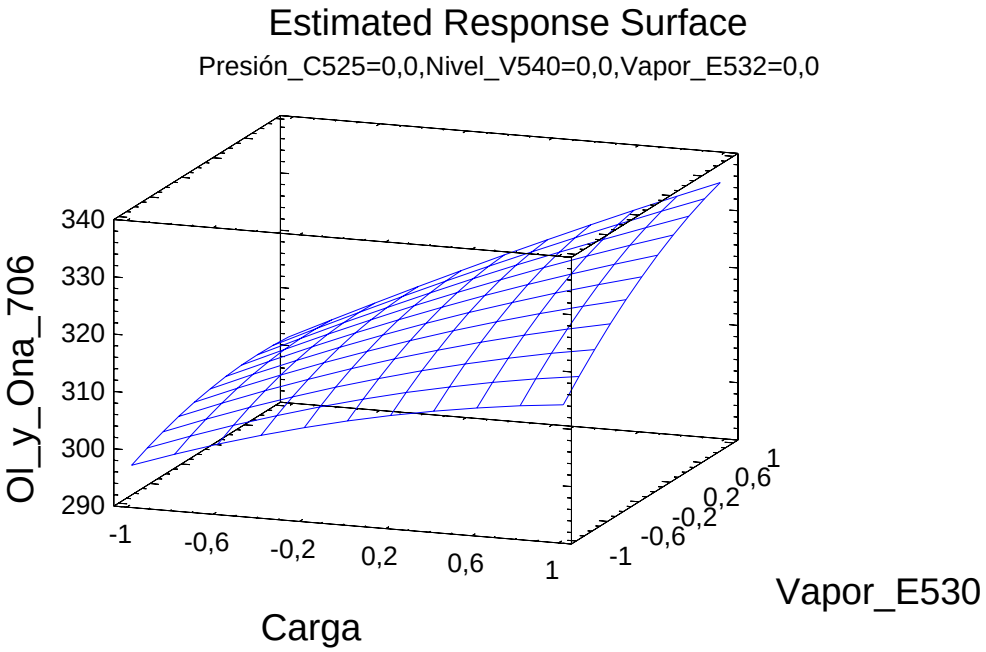

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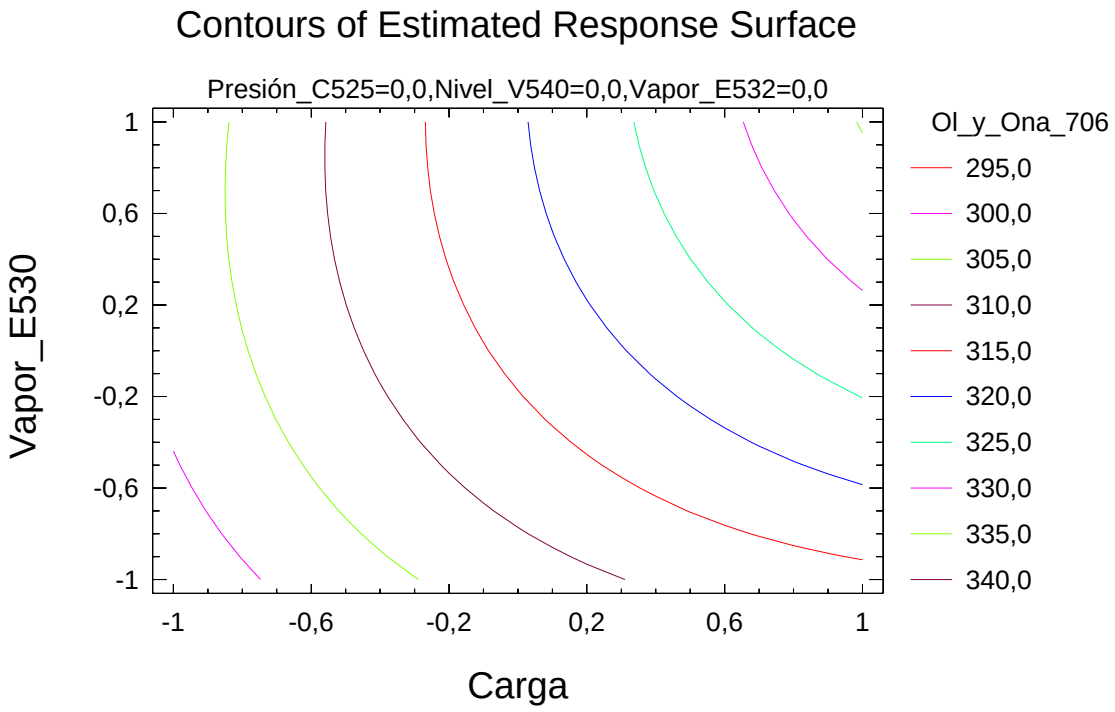

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