The SAS System

The GLM Procedure

Number of Observations Read	30
Number of Observations Used	30

The SAS System

The GLM Procedure

Dependent Variable: taste

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2314.141512	2314.141512	12.11	0.0017
Error	28	5348.745155	191.026613		
Corrected Total	29	7662.886667			

R-Square	Coeff Var	Root MSE	taste Mean
0.301993	56.33657	13.82124	24.53333

Source	DF	Type I SS	Mean Square	F Value	Pr > F
acetic	1	2314.141512	2314.141512	12.11	0.0017

Source	DF	Type III SS	Mean Square	F Value	Pr > F
acetic	1	2314.141512	2314.141512	12.11	0.0017

Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	-61.49861238	24.84637942	-2.48	0.0196
acetic	15.64776721	4.49577282	3.48	0.0017

The SAS System

The GLM Procedure

Number of Observations Read	30
Number of Observations Used	30

The SAS System

The GLM Procedure

Dependent Variable: h2s

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	50.0954892	50.0954892	17.30	0.0003
Error	28	81.0893462	2.8960481		
Corrected Total	29	131.1848354			

R-Square	Coeff Var	Root MSE	h2s Mean
0.381870	28.64094	1.701778	5.941767

Source	DF	Type I SS	Mean Square	F Value	Pr > F
acetic	1	50.09548917	50.09548917	17.30	0.0003

Source	DF	Type III SS	Mean Square	F Value	Pr > F
acetic	1	50.09548917	50.09548917	17.30	0.0003

Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	-6.716204424	3.05927882	-2.20	0.0366
acetic	2.302272526	0.55355440	4.16	0.0003

The SAS System

The GLM Procedure

Number of Observations Read	30
Number of Observations Used	30

The SAS System

The GLM Procedure

Dependent Variable: yx1

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2147.016802	2147.016802	18.78	0.0002
Error	28	3201.728353	114.347441		
Corrected Total	29	5348.745155			

R-Square	Coeff Var	Root MSE	yx1 Mean
0.401406	1.41089E17	10.69334	7.5791E-15

Source	DF	Type I SS	Mean Square	F Value	Pr > F
x2x1	1	2147.016802	2147.016802	18.78	0.0002

Source	DF	Type III SS	Mean Square	F Value	Pr > F
x2x1	1	2147.016802	2147.016802	18.78	0.0002

Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	0.000000000	1.95232717	0.00	1.0000
x2x1	5.145597624	1.18749373	4.33	0.0002

The SAS System

The GLM Procedure

Number of Observations Read	30
Number of Observations Used	30

The SAS System

The GLM Procedure

Dependent Variable: taste

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	4461.158314	2230.579157	18.81	<.0001
Error	27	3201.728353	118.582532		
Corrected Total	29	7662.886667			

R-Square	Coeff Var	Root MSE	taste Mean
0.582177	44.38680	10.88956	24.53333

Source	DF	Type I SS	Mean Square	F Value	Pr > F
acetic	1	2314.141512	2314.141512	19.52	0.0001
h2s	1	2147.016802	2147.016802	18.11	0.0002

Source	DF	Type III SS	Mean Square	F Value	Pr > F
acetic	1	84.412464	84.412464	0.71	0.4062
h2s	1	2147.016802	2147.016802	18.11	0.0002

Parameter	Estimate	Standard Error	t Value	Pr > |t|
Intercept	-26.93972685	21.19405539	-1.27	0.2145
acetic	3.80119917	4.50534130	0.84	0.4062
h2s	5.14559762	1.20928443	4.26	0.0002

The SAS System

Obs	case	taste	acetic	h2s	lactic	yx1	x2x1	yx2_x1	yx1x2
1	1	12.3	4.543	3.135	0.86	2.7108	-0.60802	5.8394	5.8394
2	2	20.9	5.159	5.043	1.53	1.6718	-0.11822	2.2801	2.2801
3	3	39.0	5.366	5.438	1.57	16.5327	-0.19979	17.5607	17.5607
4	4	47.9	5.759	7.496	1.81	19.2831	0.95342	14.3772	14.3772
5	5	5.6	4.663	3.807	0.99	-5.8669	-0.21229	-4.7746	-4.7746
6	6	25.9	5.697	7.601	1.09	-1.7467	1.20116	-7.9274	-7.9274
7	7	37.3	5.892	8.726	1.29	6.6020	1.87721	-3.0574	-3.0574
8	8	21.9	6.078	7.966	1.78	-11.7085	0.68899	-15.2538	-15.2538
9	9	18.1	4.898	3.850	1.29	2.9558	-0.71033	6.6109	6.6109
10	10	21.0	5.242	4.174	1.58	0.4730	-1.17831	6.5361	6.5361
11	11	34.9	5.740	6.142	1.68	6.5804	-0.35684	8.4166	8.4166
12	12	57.2	6.446	7.908	1.90	17.8331	-0.21624	18.9458	18.9458
13	13	0.7	4.477	2.996	1.06	-7.8564	-0.59507	-4.7945	-4.7945
14	14	25.9	5.236	4.942	1.30	5.4669	-0.39649	7.5071	7.5071
15	15	54.9	6.151	6.752	1.52	20.1492	-0.69307	23.7155	23.7155
16	16	40.9	6.365	9.588	1.74	2.8006	1.65024	-5.6909	-5.6909
17	17	15.9	4.787	3.912	1.16	2.4928	-0.39277	4.5138	4.5138
18	18	6.4	5.412	4.700	1.49	-16.7871	-1.04369	-11.4167	-11.4167
19	19	18.0	5.247	6.174	1.63	-2.6052	0.81018	-6.7741	-6.7741
20	20	38.9	5.438	9.064	1.99	15.3061	3.26045	-1.4709	-1.4709
21	21	14.0	4.564	4.949	1.15	4.0822	1.15763	-1.8745	-1.8745
22	22	15.2	5.298	5.220	1.33	-6.2033	-0.26124	-4.8590	-4.8590
23	23	32.0	5.455	9.242	1.44	8.1400	3.39931	-9.3514	-9.3514
24	24	56.7	5.855	10.199	2.01	26.5809	3.43540	8.9038	8.9038
25	25	16.8	5.366	3.664	1.31	-5.6673	-1.97379	4.4890	4.4890
26	26	11.6	6.043	3.219	1.46	-21.4608	-3.97743	-0.9946	-0.9946
27	27	26.5	6.458	6.962	1.72	-13.0547	-1.18987	-6.9321	-6.9321
28	28	0.7	5.328	3.912	1.25	-21.1727	-1.63830	-12.7426	-12.7426
29	29	13.4	5.802	6.685	1.08	-15.8897	0.04342	-16.1132	-16.1132
30	30	5.5	6.176	4.787	1.25	-29.6420	-2.71563	-15.6685	-15.6685

The SAS System

The CORR Procedure

9 Variables:	case taste acetic h2s lactic yx1 x2x1 yx2_x1 yx1x2

Pearson Correlation Coefficients, N = 30

	case	taste	acetic	h2s	lactic	yx1	x2x1	yx2_x1	yx1x2
case	1.00000	-0.21489	0.28384	0.04383	0.05756	-0.44391	-0.16734	-0.43672	-0.43672
taste	-0.21489	1.00000	0.54954	0.75575	0.70424	0.83547	0.52932	0.64639	0.64639
acetic	0.28384	0.54954	1.00000	0.61796	0.60378	0.00000	0.00000	0.00000	0.00000
h2s	0.04383	0.75575	0.61796	1.00000	0.64481	0.49812	0.78621	0.00000	0.00000
lactic	0.05756	0.70424	0.60378	0.64481	1.00000	0.44578	0.34558	0.29318	0.29318
yx1	-0.44391	0.83547	0.00000	0.49812	0.44578	1.00000	0.63357	0.77369	0.77369
x2x1	-0.16734	0.52932	0.00000	0.78621	0.34558	0.63357	1.00000	0.00000	0.00000
yx2_x1	-0.43672	0.64639	0.00000	0.00000	0.29318	0.77369	0.00000	1.00000	1.00000
yx1x2	-0.43672	0.64639	0.00000	0.00000	0.29318	0.77369	0.00000	1.00000	1.00000