

Multiple Regression Report

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 Database C:\PROGRAM FILES\NCSS97\DATA\SAMPLE.S0
 Dependent Weight

Run Summary Section

Parameter	Value	Parameter	Value
Dependent Variable	Weight	Rows Processed	75
Number Ind. Variables	2	Rows Filtered Out	0
Weight Variable	None	Rows with X's Missing	55
R2	0.9741	Rows with Weight Missing	0
Adj R2	0.9711	Rows with Y Missing	0
Coefficient of Variation	0.0525	Rows Used in Estimation	20
Mean Square Error	53.7885	Sum of Weights	20.000
Square Root of MSE	7.334064	Completion Status	Normal Completion
Ave Abs Pct Error	4.589		

Descriptive Statistics Section

Variable	Count	Mean	Standard Deviation	Minimum	Maximum
Female	20	0.55	0.5104178	0	1
Height	20	62.1	8.441128	51	79
Weight	20	139.6	43.1221	82	228

Regression Equation Section

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	T-Value to test H0:B(i)=0	Prob Level	Reject H0 at 5%?	Power of Test at 5%
Intercept	-170.6997	13.8866	-12.292	0.0000	Yes	1.0000
Female	-1.5796	3.4779	-0.454	0.6554	No	0.0713
Height	5.0108	0.2103	23.826	0.0000	Yes	1.0000

Estimated Model

-170.699656151891-1.57960831215429*Female+ 5.01076394079833*Height

Regression Coefficient Section

Independent Variable	Regression Coefficient	Standard Error	Lower 95% C.L.	Upper 95% C.L.	Standardized Coefficient
Intercept	-170.6997	13.8866	-199.9978	-141.4015	0.0000
Female	-1.5796	3.4779	-8.9174	5.7582	-0.0187
Height	5.0108	0.2103	4.5671	5.4545	0.9809

Note: The T-Value used to calculate these confidence limits was 2.110.

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Analysis of Variance Section

Source	DF	R2	Sum of Squares	Mean Square	F-Ratio	Prob Level	Power (5%)
Intercept	1		389763.2	389763.2			
Model	2	0.9741	34416.39	17208.2	319.923	0.0000	1.0000
Error	17	0.0259	914.4045	53.7885			
Total(Adjusted)	19	1.0000	35330.8	1859.516			

Analysis of Variance Detail Section

Model Term	DF	R2	Sum of Squares	Mean Square	F-Ratio	Prob Level	Power (5%)
Intercept	1		389763.2	389763.2			
Model	2	0.9741	34416.39	17208.2	319.923	0.0000	1.0000
Female	1	0.0003	11.09553	11.09553	0.206	0.6554	0.0713
Height	1	0.8643	30535.6	30535.6	567.697	0.0000	1.0000
Error	17	0.0259	914.4045	53.7885			
Total(Adjusted)	19	1.0000	35330.8	1859.516			

Normality Tests Section

Test Name	Test Value	Prob Level	Reject H0 At Alpha = 20%?
Shapiro Wilk	0.9442	0.287012	No
Anderson Darling	0.4088	0.345631	No
D'Agostino Skewness	1.1157	0.264539	No
D'Agostino Kurtosis	-0.4766	0.633643	No
D'Agostino Omnibus	1.4720	0.479026	No

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Predicted Values with Confidence Limits of Means

Row	Actual Weight	Predicted Weight	Standard Error Of Predicted	95% Lower Conf. Limit Of Mean	95% Upper Conf. Limit Of Mean
1	159.000	149.989	2.454	144.812	155.166
2	155.000	143.399	2.316	138.513	148.285
3	157.000	163.442	2.689	157.769	169.115
4	125.000	129.946	2.661	124.331	135.561
5	103.000	88.280	2.744	82.491	94.070
6	122.000	118.345	2.241	113.617	123.073
7	101.000	109.903	3.092	103.380	116.426
8	82.000	88.280	2.744	82.491	94.070
9	228.000	225.151	3.827	217.077	233.225
10	199.000	208.539	4.074	199.942	217.135
11	195.000	195.086	2.968	188.825	201.347
12	110.000	108.324	2.346	103.374	113.273
13	191.000	185.065	2.751	179.260	190.869
14	151.000	153.420	2.474	148.201	158.640
15	119.000	124.935	2.751	119.131	130.740
16	119.000	123.356	2.217	118.679	128.032
17	112.000	118.345	2.241	113.617	123.073
18	87.000	83.270	2.874	77.207	89.333
19	190.000	185.065	2.751	179.260	190.869
20	87.000	89.860	3.668	82.122	97.598

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Residual Report

Row	Actual Weight	Predicted Weight	Residual	Absolute Percent Error	Sqrt(MSE) Without This Row
1	159.000	149.989	9.011	5.667	7.172
2	155.000	143.399	11.601	7.485	6.914
3	157.000	163.442	-6.442	4.103	7.359
4	125.000	129.946	-4.946	3.957	7.442
5	103.000	88.280	14.720	14.291	6.435
6	122.000	118.345	3.655	2.996	7.499
7	101.000	109.903	-8.903	8.815	7.150
8	82.000	88.280	-6.280	7.659	7.368
9	228.000	225.151	2.849	1.250	7.514
10	199.000	208.539	-9.539	4.793	6.995
11	195.000	195.086	-0.086	0.044	7.560
12	110.000	108.324	1.676	1.524	7.547
13	191.000	185.065	5.935	3.108	7.388
14	151.000	153.420	-2.420	1.603	7.532
15	119.000	124.935	-5.935	4.988	7.388
16	119.000	123.356	-4.356	3.660	7.473
17	112.000	118.345	-6.345	5.665	7.374
18	87.000	83.270	3.730	4.288	7.492
19	190.000	185.065	4.935	2.598	7.442
20	87.000	89.860	-2.860	3.287	7.515

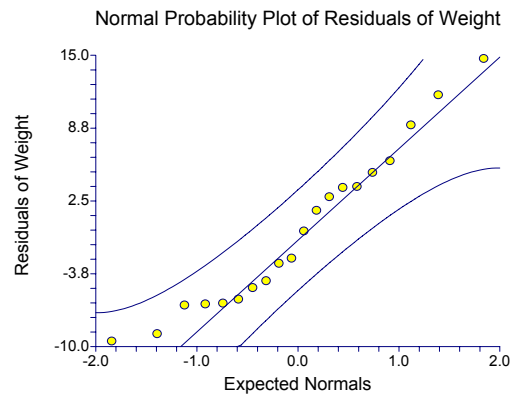
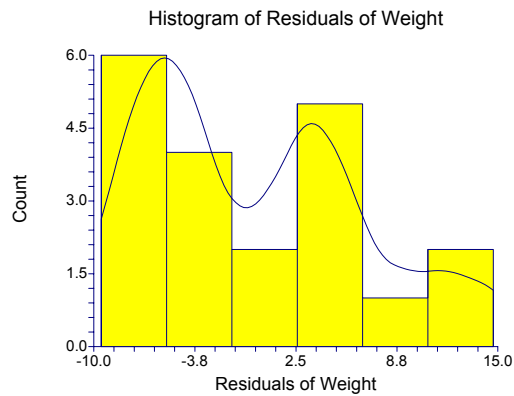
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Regression Diagnostics Section

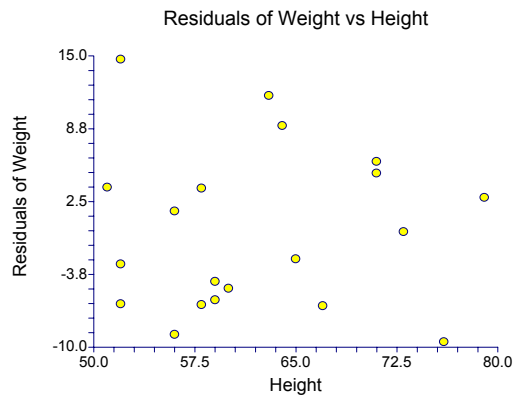
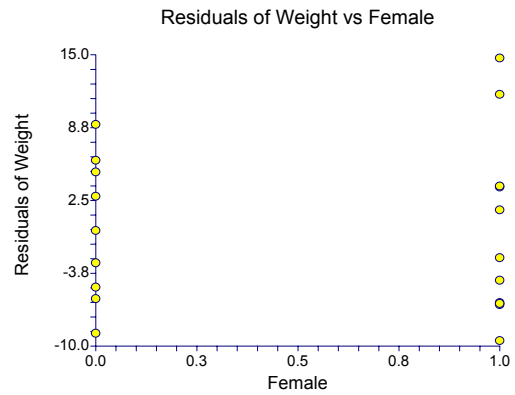
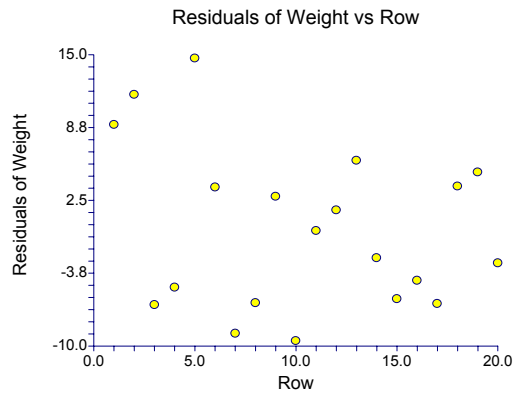
Row	Standardized Residual	RStudent	Hat Diagonal	Cook's D	Dffits	CovRatio
1	1.3037	1.3332	0.1119	0.0714	0.4733	0.9847
2	1.6671	1.7683	0.0997	0.1026	0.5885	0.7799
3	-0.9441	-0.9409	0.1344	0.0461	-0.3708	1.1790
4	-0.7237	-0.7132	0.1317	0.0265	-0.2777	1.2575
5	2.1642	2.4667	0.1400	0.2542	0.9953	0.5304
6	0.5234	0.5119	0.0934	0.0094	0.1643	1.2601
7	-1.3387	-1.3731	0.1777	0.1291	-0.6384	1.0443
8	-0.9234	-0.9192	0.1400	0.0463	-0.3709	1.1952
9	0.4554	0.4445	0.2723	0.0259	0.2719	1.5886
10	-1.5642	-1.6401	0.3086	0.3641	-1.0959	1.0885
11	-0.0128	-0.0125	0.1637	0.0000	-0.0055	1.4343
12	0.2413	0.2345	0.1023	0.0022	0.0792	1.3225
13	0.8730	0.8666	0.1407	0.0416	0.3507	1.2164
14	-0.3506	-0.3413	0.1138	0.0053	-0.1223	1.3243
15	-0.8730	-0.8666	0.1407	0.0416	-0.3507	1.2164
16	-0.6231	-0.6115	0.0913	0.0130	-0.1939	1.2317
17	-0.9086	-0.9037	0.0934	0.0283	-0.2900	1.1394
18	0.5528	0.5412	0.1535	0.0185	0.2305	1.3420
19	0.7260	0.7155	0.1407	0.0288	0.2895	1.2700
20	-0.4503	-0.4395	0.2501	0.0225	-0.2538	1.5429

Plots Section



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 Dependent Weight

Run Summary Section

Parameter	Value	Parameter	Value
Dependent Variable	Weight	Rows Processed	75
Number Ind. Variables	3	Rows Filtered Out	0
Weight Variable	None	Rows with X's Missing	55
R2	0.9811	Rows with Weight Missing	0
Adj R2	0.9775	Rows with Y Missing	0
Coefficient of Variation	0.0463	Rows Used in Estimation	20
Mean Square Error	41.76873	Sum of Weights	20.000
Square Root of MSE	6.462873	Completion Status	Normal Completion
Ave Abs Pct Error	3.639		

Descriptive Statistics Section

Variable	Count	Mean	Standard Deviation	Minimum	Maximum
Female	20	0.55	0.5104178	0	1
Height	20	62.1	8.441128	51	79
Female*Height	20	32.85	30.97584	0	76
Weight	20	139.6	43.1221	82	228

Regression Equation Section

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	T-Value to test H0:B(i)=0	Prob Level	Reject H0 at 5%?	Power of Test at 5%
Intercept	-198.2609	16.6933	-11.877	0.0000	Yes	1.0000
Female	54.4858	23.2997	2.338	0.0327	Yes	0.5936
Height	5.4348	0.2547	21.340	0.0000	Yes	1.0000
Female*Height	-0.9013	0.3713	-2.427	0.0274	Yes	0.6256

Estimated Model

-198.260869565218+ 54.485845732997*Female+ 5.43478260869566*Height-.901258617593028*Female*Height

Regression Coefficient Section

Independent Variable	Regression Coefficient	Standard Error	Lower 95% C.L.	Upper 95% C.L.	Standardized Coefficient
Intercept	-198.2609	16.6933	-233.6491	-162.8726	0.0000
Female	54.4858	23.2997	5.0926	103.8791	0.6449
Height	5.4348	0.2547	4.8949	5.9747	1.0639
Female*Height	-0.9013	0.3713	-1.6884	-0.1142	-0.6474

Note: The T-Value used to calculate these confidence limits was 2.120.

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Analysis of Variance Section

Source	DF	R2	Sum of Squares	Mean Square	F-Ratio	Prob Level	Power (5%)
Intercept	1		389763.2	389763.2			
Model	3	0.9811	34662.5	11554.17	276.622	0.0000	1.0000
Error	16	0.0189	668.2996	41.76873			
Total(Adjusted)	19	1.0000	35330.8	1859.516			

Analysis of Variance Detail Section

Model Term	DF	R2	Sum of Squares	Mean Square	F-Ratio	Prob Level	Power (5%)
Intercept	1		389763.2	389763.2			
Model	3	0.9811	34662.5	11554.17	276.622	0.0000	1.0000
Female	1	0.0065	228.411	228.411	5.468	0.0327	0.5936
Height	1	0.5384	19021.74	19021.74	455.406	0.0000	1.0000
Female*Height	1	0.0070	246.1049	246.1049	5.892	0.0274	0.6256
Error	16	0.0189	668.2996	41.76873			
Total(Adjusted)	19	1.0000	35330.8	1859.516			

Normality Tests Section

Test Name	Test Value	Prob Level	Reject H0 At Alpha = 20%?
Shapiro Wilk	0.9340	0.184543	Yes
Anderson Darling	0.5830	0.129231	Yes
D'Agostino Skewness	1.5521	0.120632	Yes
D'Agostino Kurtosis	0.6198	0.535394	No
D'Agostino Omnibus	2.7932	0.247431	No

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Predicted Values with Confidence Limits of Means

Row	Actual Weight	Predicted Weight	Standard Error Of Predicted	95% Lower Conf. Limit Of Mean	95% Upper Conf. Limit Of Mean
1	159.000	149.565	2.169	144.967	154.164
2	155.000	141.837	2.140	137.301	146.373
3	157.000	159.971	2.767	154.105	165.838
4	125.000	127.826	2.502	122.521	133.131
5	103.000	91.968	2.856	85.914	98.022
6	122.000	119.169	2.004	114.922	123.417
7	101.000	106.087	3.146	99.419	112.755
8	82.000	91.968	2.856	85.914	98.022
9	228.000	231.087	4.166	222.256	239.918
10	199.000	200.773	4.809	190.578	210.968
11	195.000	198.478	2.965	192.193	204.764
12	110.000	110.102	2.193	105.452	114.752
13	191.000	187.609	2.641	182.010	193.208
14	151.000	150.904	2.414	145.787	156.021
15	119.000	122.391	2.641	116.792	127.990
16	119.000	123.703	1.959	119.551	127.855
17	112.000	119.169	2.004	114.922	123.417
18	87.000	87.435	3.059	80.950	93.919
19	190.000	187.609	2.641	182.010	193.208
20	87.000	84.348	3.950	75.974	92.721

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Residual Report

Row	Actual Weight	Predicted Weight	Residual	Absolute Percent Error	Sqrt(MSE) Without This Row
1	159.000	149.565	9.435	5.934	6.153
2	155.000	141.837	13.163	8.492	5.620
3	157.000	159.971	-2.971	1.892	6.621
4	125.000	127.826	-2.826	2.261	6.628
5	103.000	91.968	11.032	10.710	5.871
6	122.000	119.169	2.831	2.320	6.630
7	101.000	106.087	-5.087	5.037	6.503
8	82.000	91.968	-9.968	12.156	6.027
9	228.000	231.087	-3.087	1.354	6.593
10	199.000	200.773	-1.773	0.891	6.640
11	195.000	198.478	-3.478	1.784	6.598
12	110.000	110.102	-0.102	0.093	6.675
13	191.000	187.609	3.391	1.776	6.606
14	151.000	150.904	0.096	0.064	6.675
15	119.000	122.391	-3.391	2.850	6.606
16	119.000	123.703	-4.703	3.952	6.552
17	112.000	119.169	-7.169	6.401	6.385
18	87.000	87.435	-0.435	0.500	6.674
19	190.000	187.609	2.391	1.259	6.640
20	87.000	84.348	2.652	3.048	6.619

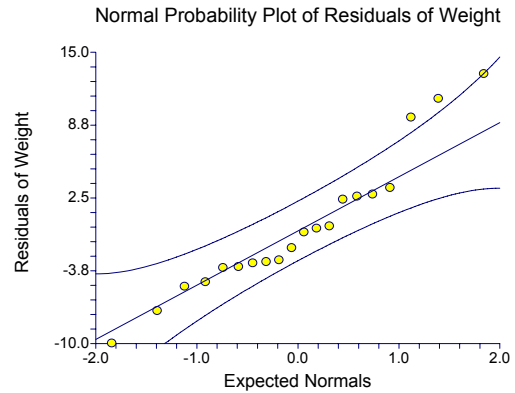
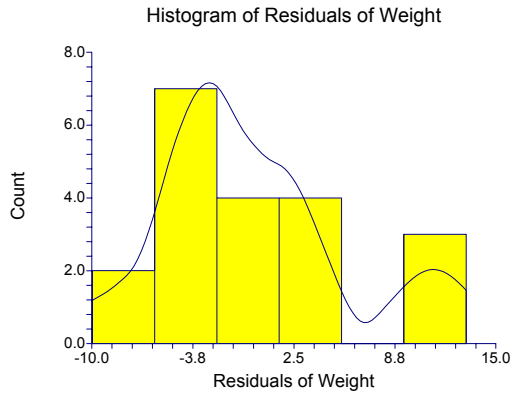
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 Dependent Weight

Regression Diagnostics Section

Row	Standardized Residual	RStudent	Hat Diagonal	Cook's D	Dffits	CovRatio
1	1.5498	1.6277	0.1127	0.0762	0.5800	0.7612
2	2.1585	2.4823	0.1096	0.1434	0.8710	0.3670
3	-0.5087	-0.4966	0.1833	0.0145	-0.2353	1.4851
4	-0.4743	-0.4625	0.1499	0.0099	-0.1942	1.4390
5	1.9028	2.0945	0.1953	0.2196	1.0318	0.5765
6	0.4607	0.4490	0.0961	0.0056	0.1464	1.3577
7	-0.9010	-0.8954	0.2369	0.0630	-0.4989	1.3774
8	-1.7194	-1.8438	0.1953	0.1793	-0.9082	0.7106
9	-0.6247	-0.6124	0.4155	0.0694	-0.5163	2.0063
10	-0.4106	-0.3997	0.5537	0.0523	-0.4452	2.7803
11	-0.6057	-0.5933	0.2105	0.0245	-0.3063	1.4944
12	-0.0168	-0.0163	0.1152	0.0000	-0.0059	1.4630
13	0.5749	0.5625	0.1670	0.0166	0.2519	1.4296
14	0.0160	0.0155	0.1395	0.0000	0.0062	1.5043
15	-0.5749	-0.5625	0.1670	0.0166	-0.2519	1.4296
16	-0.7636	-0.7532	0.0918	0.0147	-0.2395	1.2287
17	-1.1668	-1.1811	0.0961	0.0362	-0.3852	1.0035
18	-0.0764	-0.0739	0.2240	0.0004	-0.0397	1.6658
19	0.4054	0.3946	0.1670	0.0082	0.1767	1.4912
20	0.5185	0.5063	0.3735	0.0401	0.3909	1.9310

Plots Section

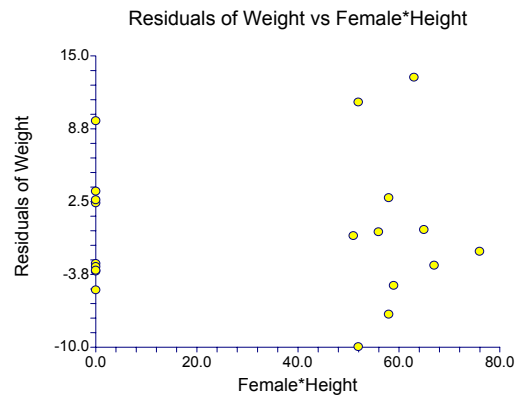
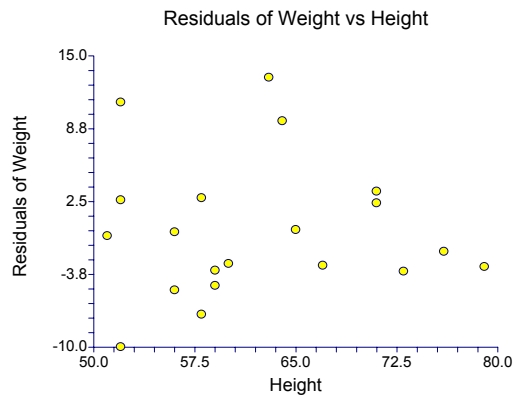
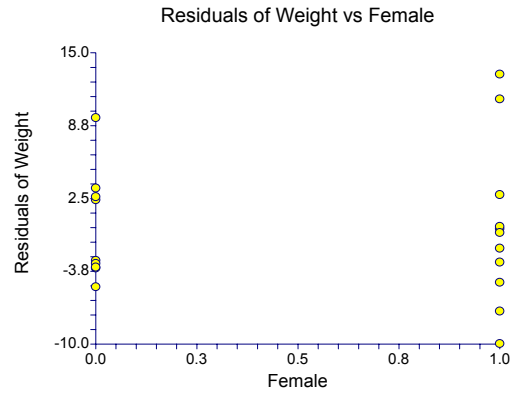
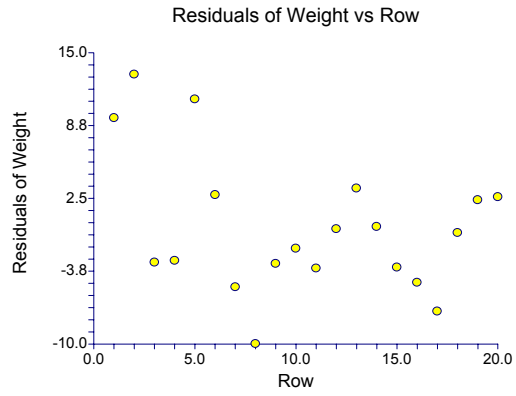


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Dependent Weight



Scatter Plot Section

