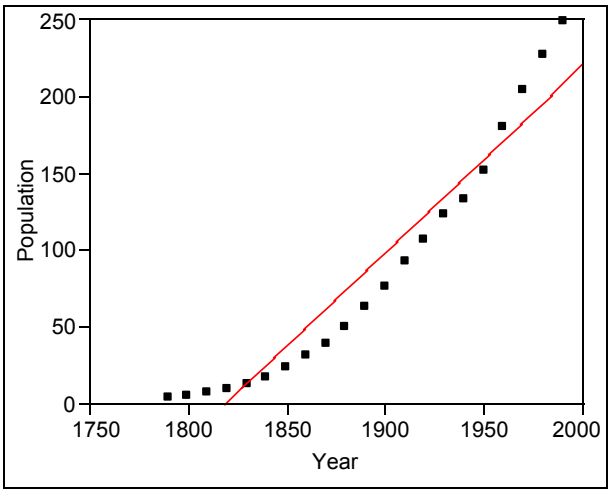
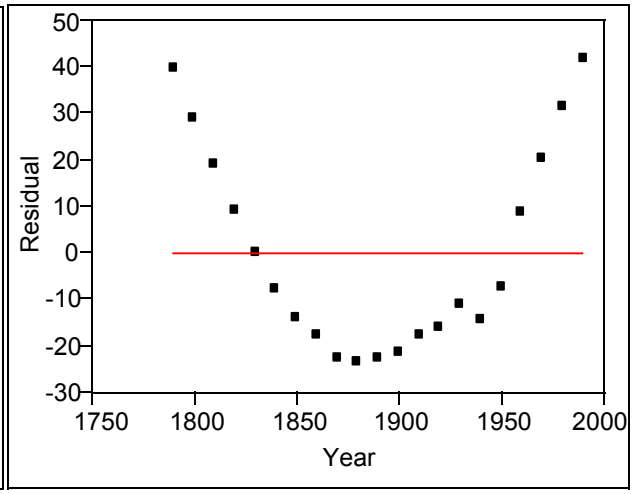
JMP Output for U.S. Population data

Bivariate Fit of Population By Year: Simple Linear Model





Linear Fit

Predicted Population = -2211.341 + 1.2154092 Year

Summary of Fit

RSquare	0.921916
RSquare Adj	0.917806
Root Mean Square Error	22.51787
Mean of Response	85.78257
Observations (or Sum Wgts)	21

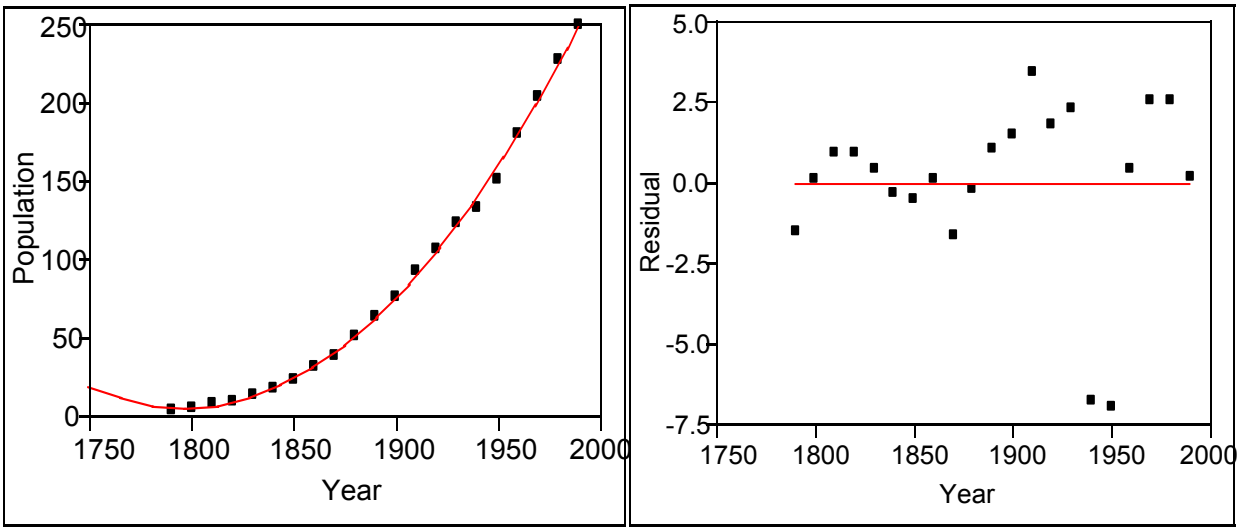
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	113745.91	113746	224.3268
Error	19	9634.04	507	Prob > F
C. Total	20	123379.94		<.0001

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-2211.341	153.4499	-14.41	<.0001
Year	1.2154092	0.081149	14.98	<.0001

Bivariate Fit of Population By Year: Quadratic Model



Polynomial Fit Degree=2

Predicted Population = 21006.057 - 23.378511 Year + 0.0065063 Year^2

Summary of Fit

RSquare	0.998883
RSquare Adj	0.998759
Root Mean Square Error	2.766576
Mean of Response	85.78257
Observations (or Sum Wgts)	21

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	123242.17	61621.1	8050.895
Error	18	137.77	7.7	Prob > F
C. Total	20	123379.94		<.0001

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	21006.057	659.4127	31.86	<.0001
Year	-23.37851	0.698294	-33.48	<.0001
Year^2	0.0065063	0.000185	35.22	<.0001