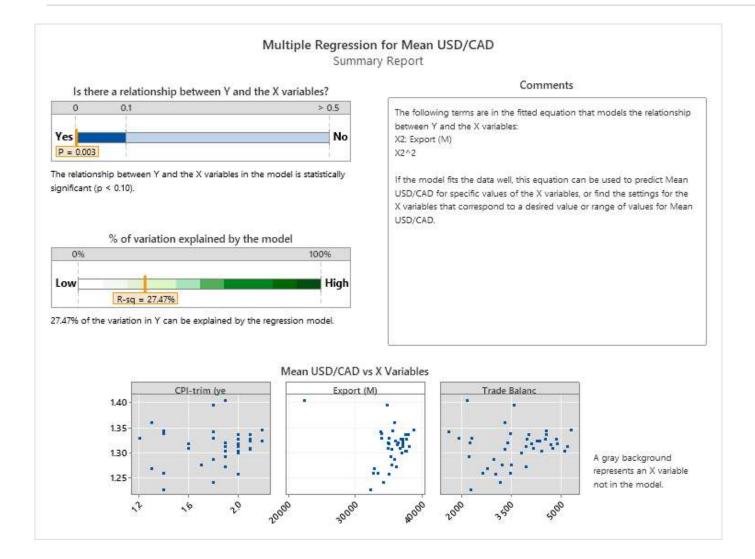
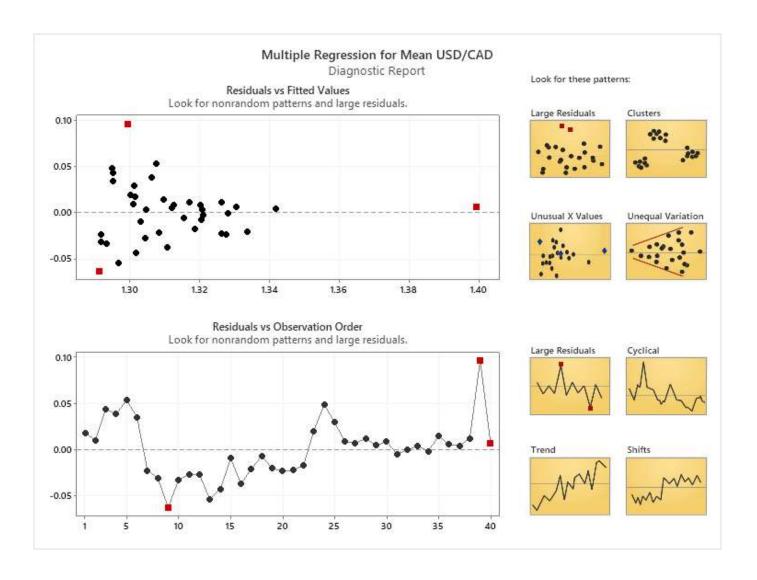
Multiple Regression for Mean USD/CAD rate





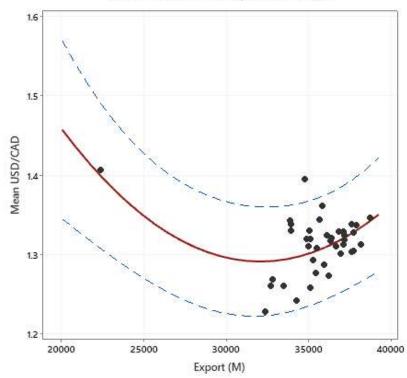
Multiple Regression for Mean USD/CAD Model Building Report X1: CPI-trim (ye X2: Export (M) X3: Trade Balanc Final Model Equation Mean USD/CAD rate = 2.468 - 0.000073 X2 + 0.000000 X2^2 Model Building Sequence Incremental Impact of X Variables Displays the order in which terms were added or removed. Long bars represent Xs that contribute the most new information to the model. Step P Final P Step Change CPI-trim (ye Add X2 0.019 0.019 Export (M) 0.001 Add X2^2 0.001 Trade Balanc 50 100 30 75 R-Squared(adjusted) % Increase in R-Squared % Fitted Line Plot for Export (M) Each X Regressed on All Other Terms Shows the relationship between Mean USD/CAD and Gray bars represent Xs that do not help explain Export (M). additional variation in Y. 1.38 Mean USD/CAD CPI-trim (ye 1.32 Export (M) 1.26 Trade Balanc 20000 25000 30000 35000 40000 0 50 100 Export (M) R-Squared % A gray bar represents an X variable not in the model.

Multiple Regression for Mean USD/CAD Prediction and Optimization Report

Y: Mean USD/CAD X: Export (M)

Prediction Plot

The red fitted line shows the predicted Y for any X value. The blue dashed lines show the 95% prediction interval.



Х	Predicted Y	95% PI
20000	1.4571	(1.3450, 1.5692)
20800	1.4358	(1.3318, 1.5397)
21600	1.4159	(1.3190, 1.5128)
22400	1.3975	(1.3066, 1.4884)
23200	1.3806	(1.2946, 1.4666)
24000	1.3651	(1.2831, 1.4471)
24800	1.3511	(1.2723, 1.4300)
25600	1.3386	(1.2622, 1.4150)
26400	1.3275	(1.2529, 1.4021)
27200	1.3179	(1.2447, 1.3912)
28000	1.3098	(1.2377, 1.3820)
28800	1.3032	(1.2318, 1.3745)
29600	1.2980	(1.2274, 1.3686)
30400	1.2943	(1.2243, 1.3642)
31200	1.2920	(1.2228, 1.3613)
32000	1.2912	(1.2227, 1.3597)
32800	1.2919	(1.2242, 1.3597)
33600	1.2941	(1.2270, 1.3611)
34400	1.2977	(1,2313, 1,3640)
35200	1.3028	(1.2369, 1.3687)
36000	1.3093	(1.2436, 1.3750)
36800	1.3174	(1.2514, 1.3834)
37600	1.3269	(1.2599, 1.3938)
38400	1.3378	(1.2691, 1.4065)
39200	1.3502	(1.2788, 1.4217)

To obtain additional predicted values, right-click the graph and use the crosshairs tool.

Multiple Regression for Mean USD/CAD

Report Card

Check Status Description

Amount of Data



Your sample is large enough (n = 40) to obtain a precise estimate of the strength of the relationship.

Unusual Data



- Large residuals: 3 data points have large residuals and are not well fit by the equation. These points are marked in red on the Diagnostic Report.
- Unusual X values: One data point has an unusual X value, which can strongly influence the model equation. This point is marked in red on the Diagnostic Report and is in row 40 of the worksheet.

You can hover over a point or use Minitab's brushing feature to identify the worksheet rows. Because unusual data can have a strong influence on the results, try to identify the cause for their unusual nature. Correct any data entry or measurement errors. Consider removing data that are associated with special causes and redoing the analysis.

Normality



Because you have at least 15 data points, normality is not an issue. If the number of data points is small and the residuals are not normally distributed, the p-values used to determine whether there is a significant relationship between the Xs and Y may not be accurate.