

Response: FDR

Sequential Model Sum of Squares

Source	Sum of Squares	DF	Mean Square	F Value	Prob > F	
Mean	10793.90	1	10793.90			
Linear	1228.05	2	614.03	9.72	0.0003	
2FI	1.43	1	1.43	0.022	0.8824	
<u>Quadratic</u>	<u>376.32</u>	<u>2</u>	<u>188.16</u>	<u>3.23</u>	<u>0.0506</u>	<u>Suggested</u>
Cubic	340.40	4	85.10	1.54	0.2123	
Residual	1934.94	35	55.28			
Total	14675.03	45	326.11			

"*Sequential Model Sum of Squares*": Select the highest order polynomial where the additional terms are significant and the model is not aliased.

Lack of Fit Tests

Source	Sum of Squares	DF	Mean Square	F Value	Prob > F	
Linear	2652.00	41	64.68	59.87	0.1022	
2FI	2650.57	40	66.26	61.33	0.1010	
<u>Quadratic</u>	<u>2274.25</u>	<u>38</u>	<u>59.85</u>	<u>55.39</u>	<u>0.1062</u>	<u>Suggested</u>
Cubic	1933.86	34	56.88	52.64	0.1088	
Pure Error	1.08	1	1.08			

"*Lack of Fit Tests*": Want the selected model to have insignificant lack-of-fit.

Model Summary Statistics

Source	Std. Dev.	R-Squared	Adjusted R-Squared	Predicted R-Squared	PRESS	
Linear	7.95	0.3164	0.2839	0.2226	3017.04	
2FI	8.04	0.3168	0.2668	0.1848	3164.07	
<u>Quadratic</u>	<u>7.64</u>	<u>0.4137</u>	<u>0.3386</u>	<u>0.2328</u>	<u>2977.74</u>	<u>Suggested</u>
Cubic	7.44	0.5015	0.3733	0.1811	3178.15	

"*Model Summary Statistics*": Focus on the model maximizing the "Adjusted R-Squared" and the "Predicted R-Squared".