

Response: FDR

### Sequential Model Sum of Squares

	Sum of		Mean	F		
Source	Squares	DF	Square	Value	Prob > F	
Mean	1975.14	1	1975.14			
Linear	610.87	2	305.44	81.82	< 0.0001	
2FI	0.54	1	0.54	0.14	0.7095	
Quadratic	35.63	2	17.82	5.76	0.0064	
<u>Cubic</u>	<u>37.08</u>	<u>4</u>	<u>9.27</u>	<u>3.88</u>	<u>0.0103</u>	<u>Suggested</u>
Residual	83.53	35	2.39			
Total	2742.80	45	60.95			

"*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

	Sum of		Mean	F		
Source	Squares	DF	Square	Value	Prob > F	
Linear	135.00	41	3.29	0.15	0.9862	
2FI	134.46	40	3.36	0.15	0.9851	
Quadratic	98.83	38	2.60	0.12	0.9937	
<u>Cubic</u>	<u>61.75</u>	<u>34</u>	<u>1.82</u>	<u>0.083</u>	<u>0.9985</u>	<u>Suggested</u>
Pure Error	21.78	1	21.78			

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

### Model Summary Statistics

	Std.		Adjusted	Predicted		
Source	Dev.	R-Squared	R-Squared	R-Squared	PRESS	
Linear	1.93	0.7958	0.7860	0.7613	183.24	
2FI	1.95	0.7965	0.7816	0.7441	196.41	
Quadratic	1.76	0.8429	0.8227	0.7745	173.10	
<u>Cubic</u>	<u>1.54</u>	<u>0.8912</u>	<u>0.8632</u>	<u>0.8022</u>	<u>151.83</u>	<u>Suggested</u>

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