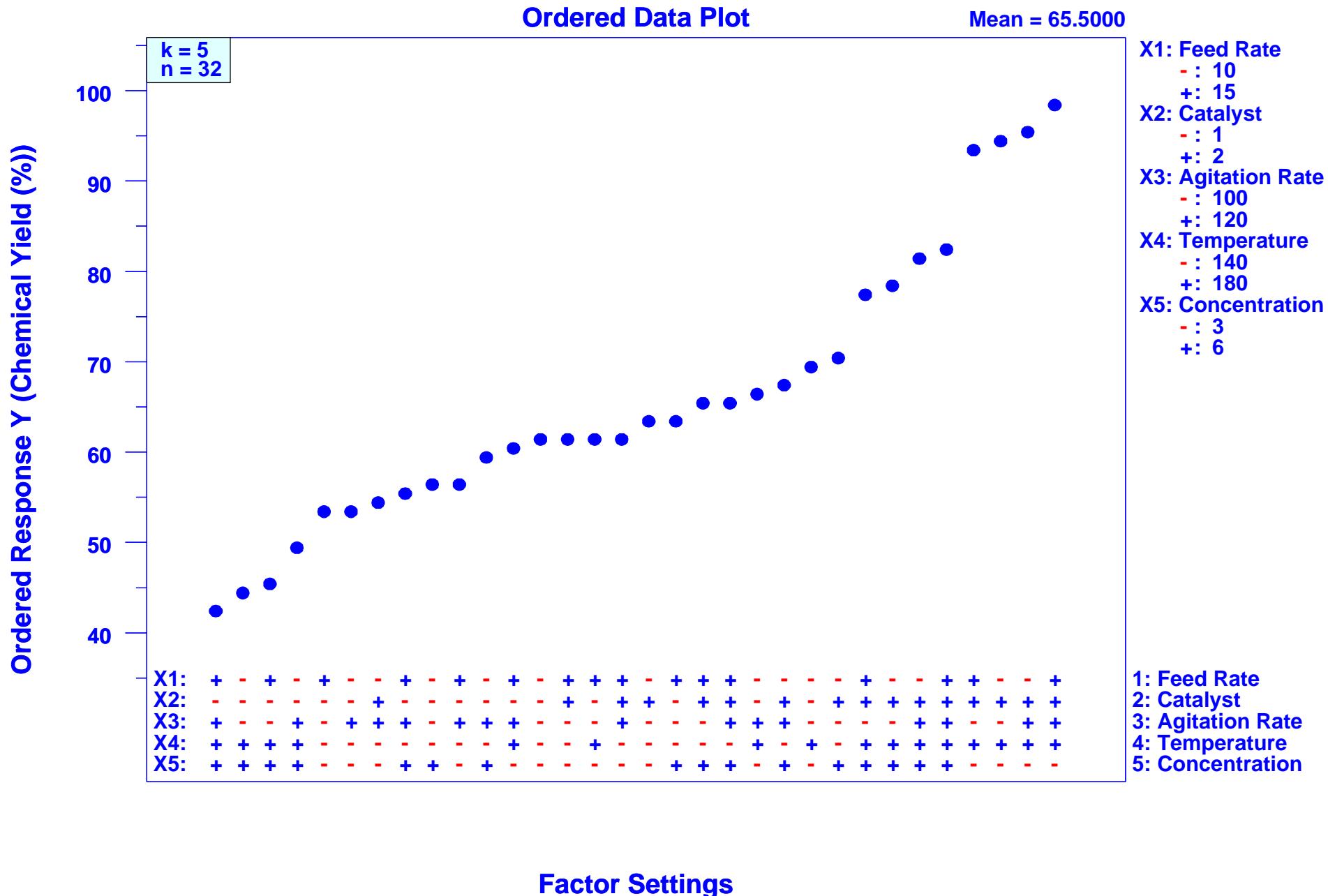


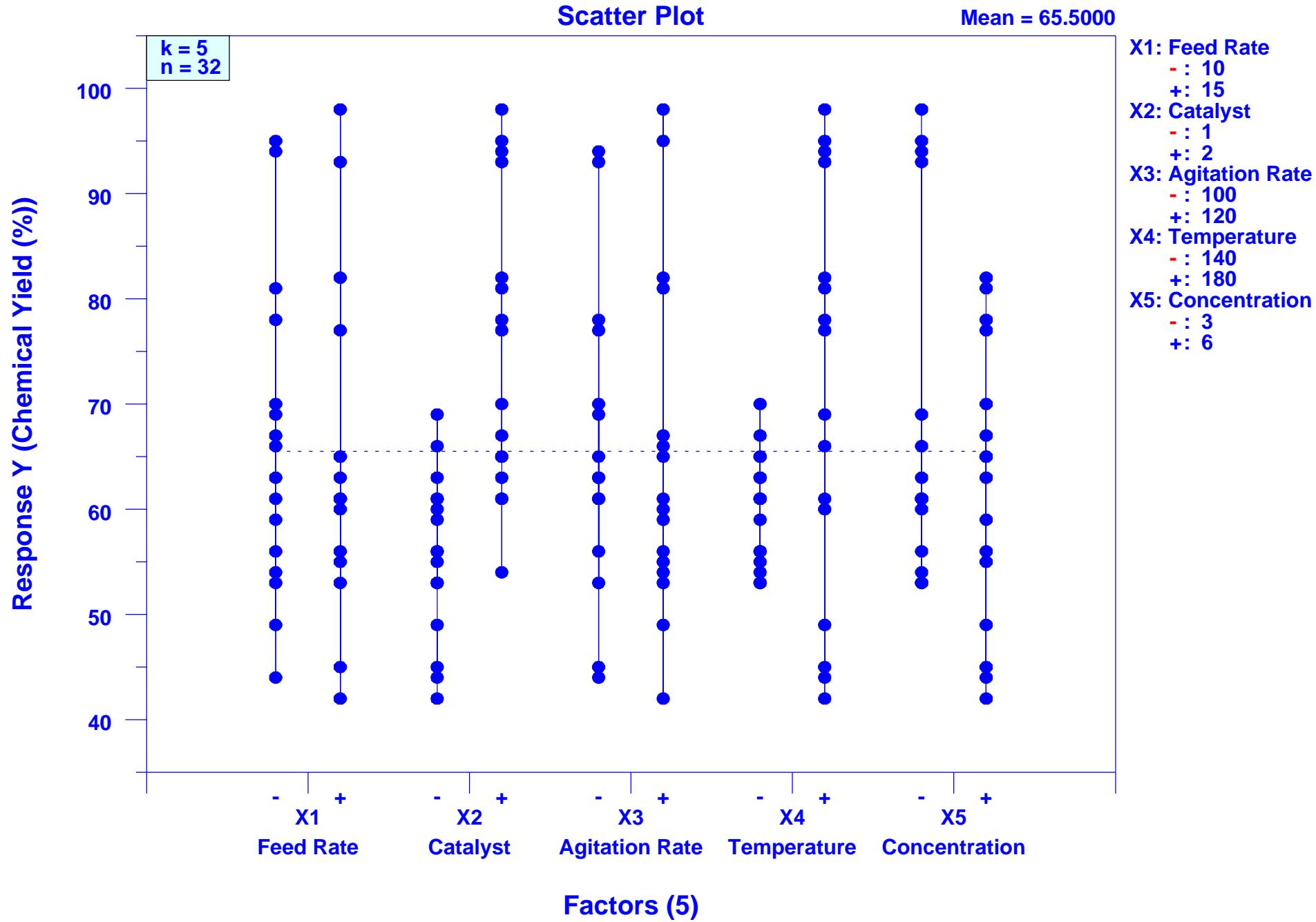
Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter)

Design: $2^{**}5$ ($k=5, n=32$)



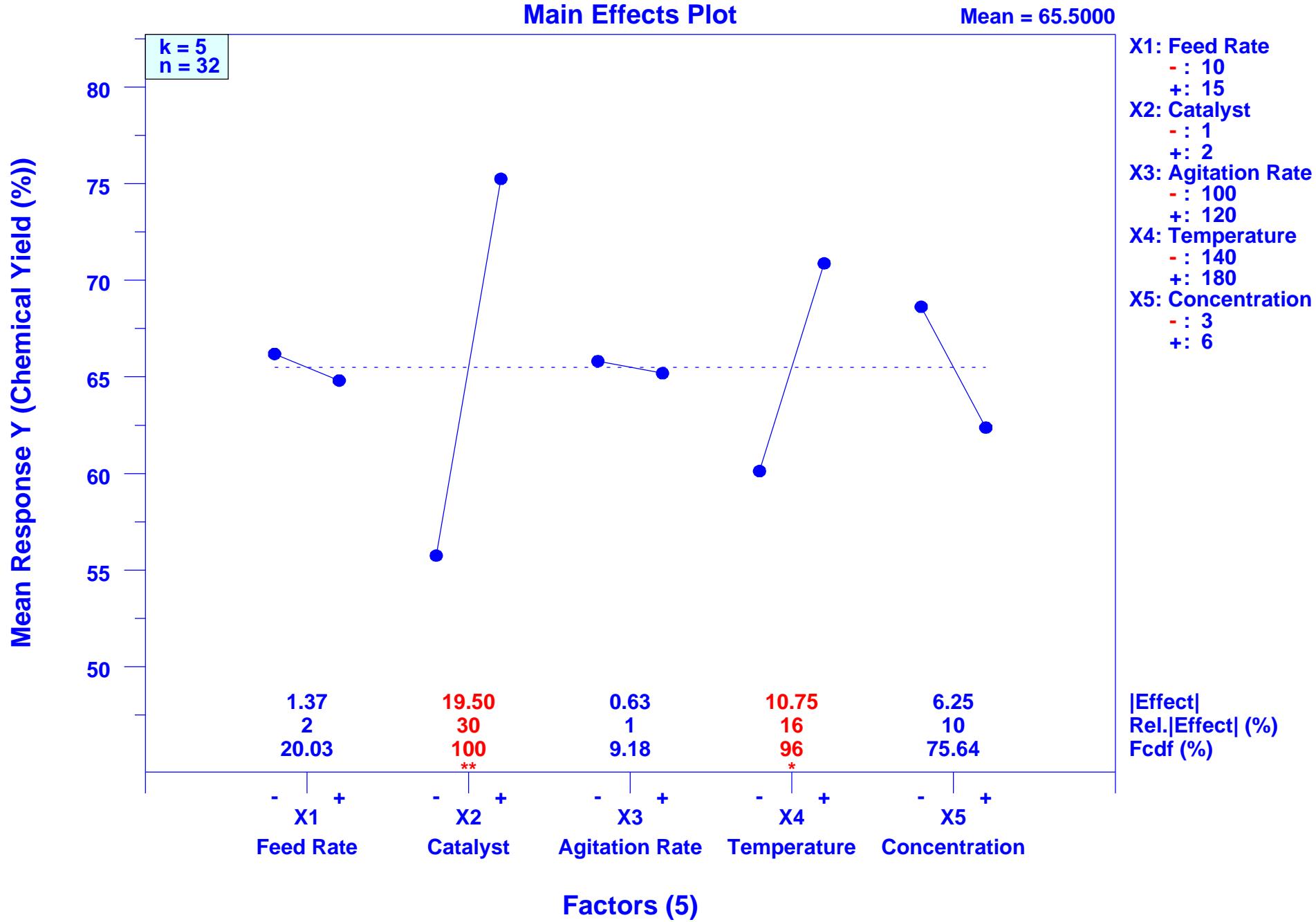
Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter)

Design: $2^{**}5$ ($k=5, n=32$)



Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter)

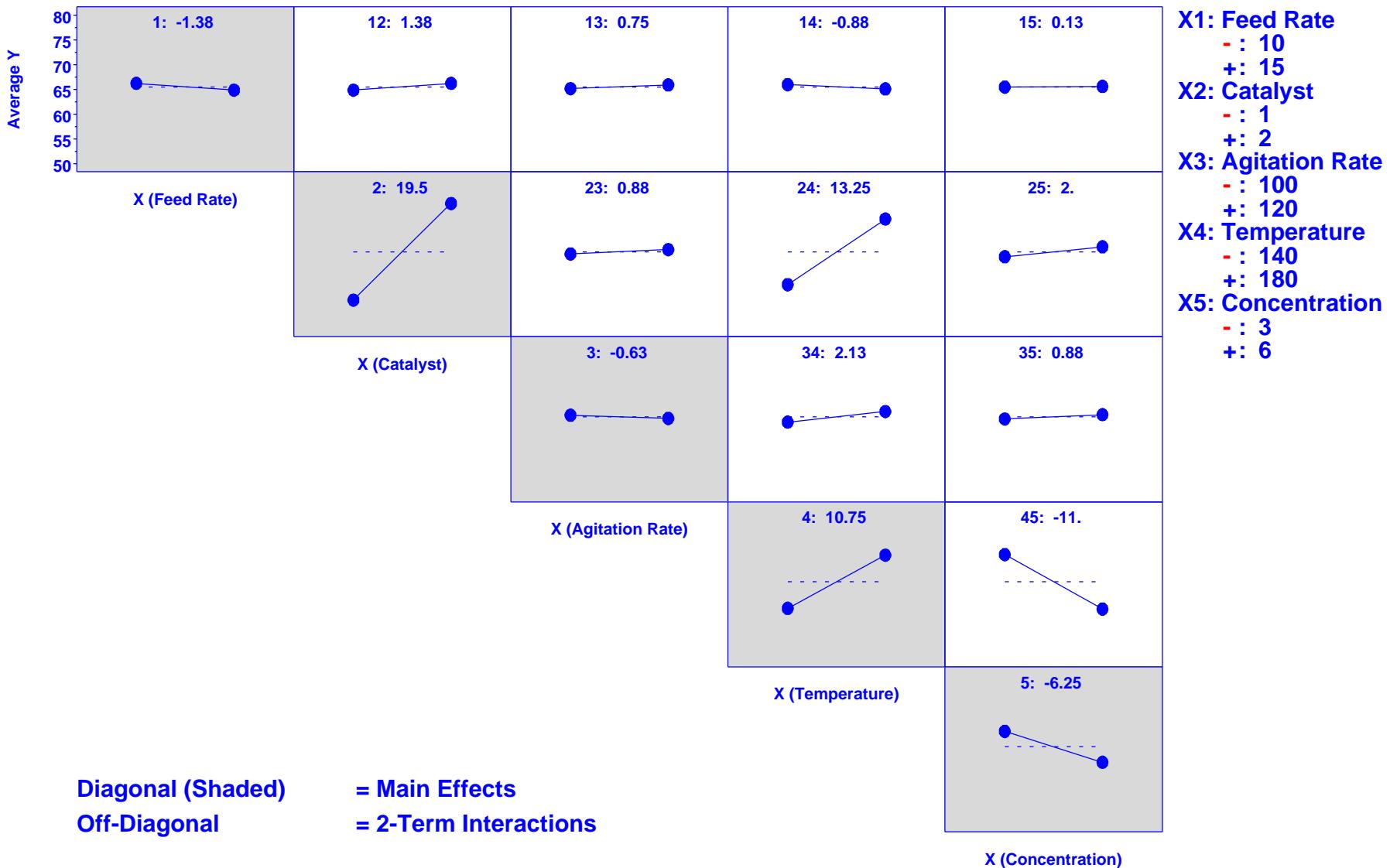
Design: 2^{**5} ($k=5, n=32$)



Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter) Design: 2^{**5} ($k=5, n=32$)

Interaction Effects Matrix

Mean = 65.5000



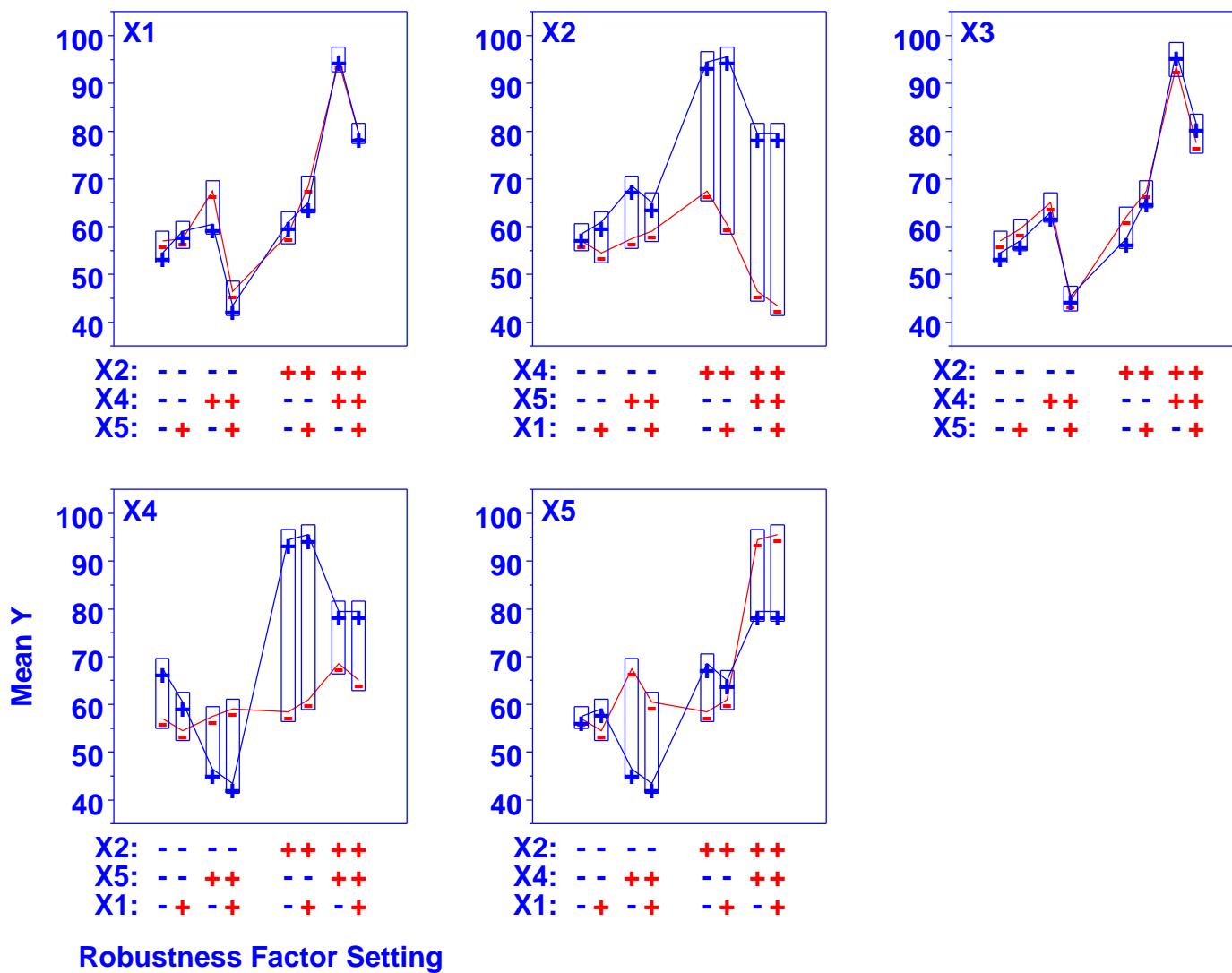
Diagonal (Shaded)
Off-Diagonal

- = Main Effects
- = 2-Term Interactions

Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter)

Design: $2^{**}5$ ($k=5, n=32$)

Block Plot



X1: Feed Rate
 - : 10
 + : 15

X2: Catalyst
 - : 1
 + : 2

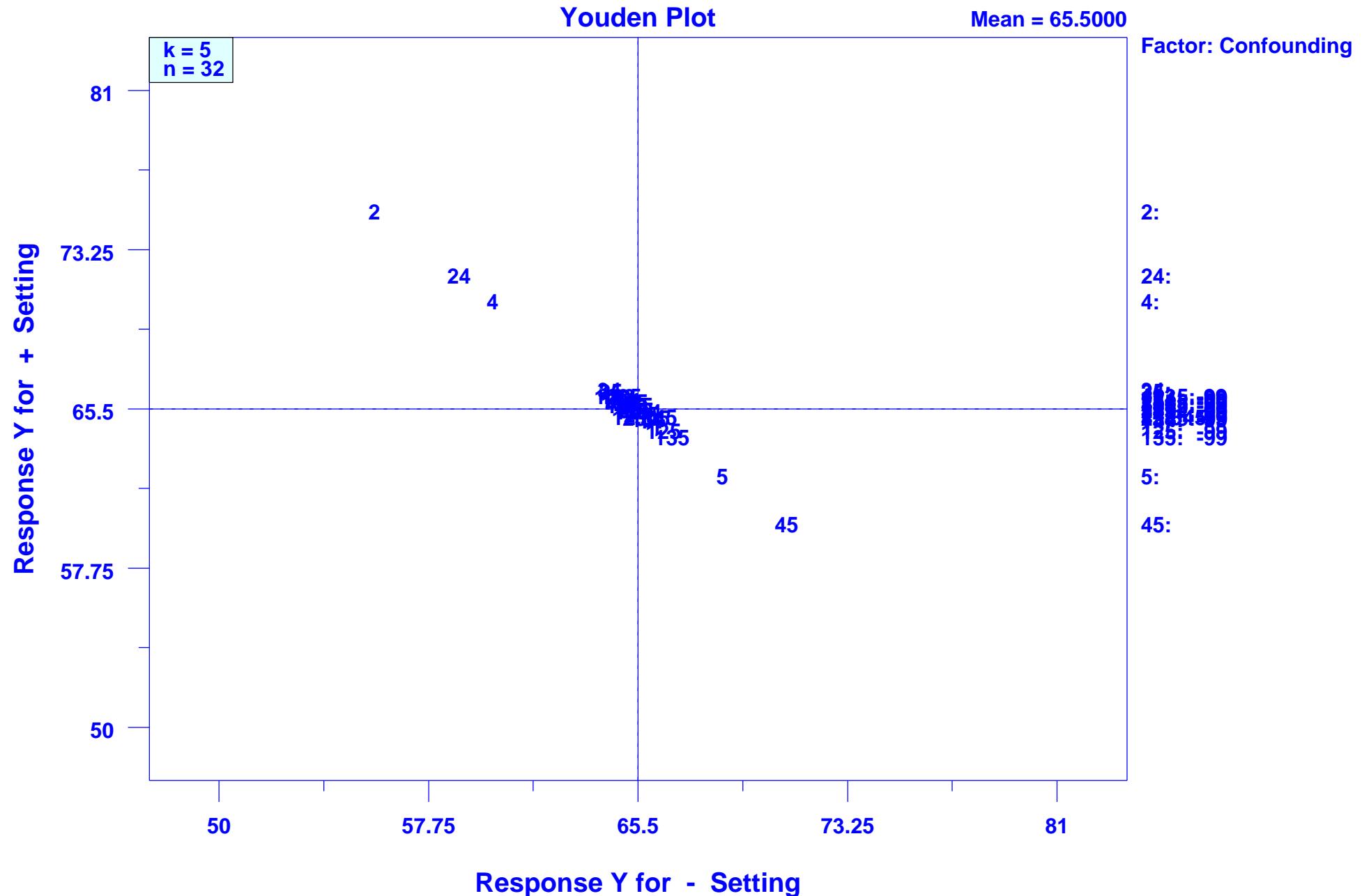
X3: Agitation Rate
 - : 100
 + : 120

X4: Temperature
 - : 140
 + : 180

X5: Concentration
 - : 3
 + : 6

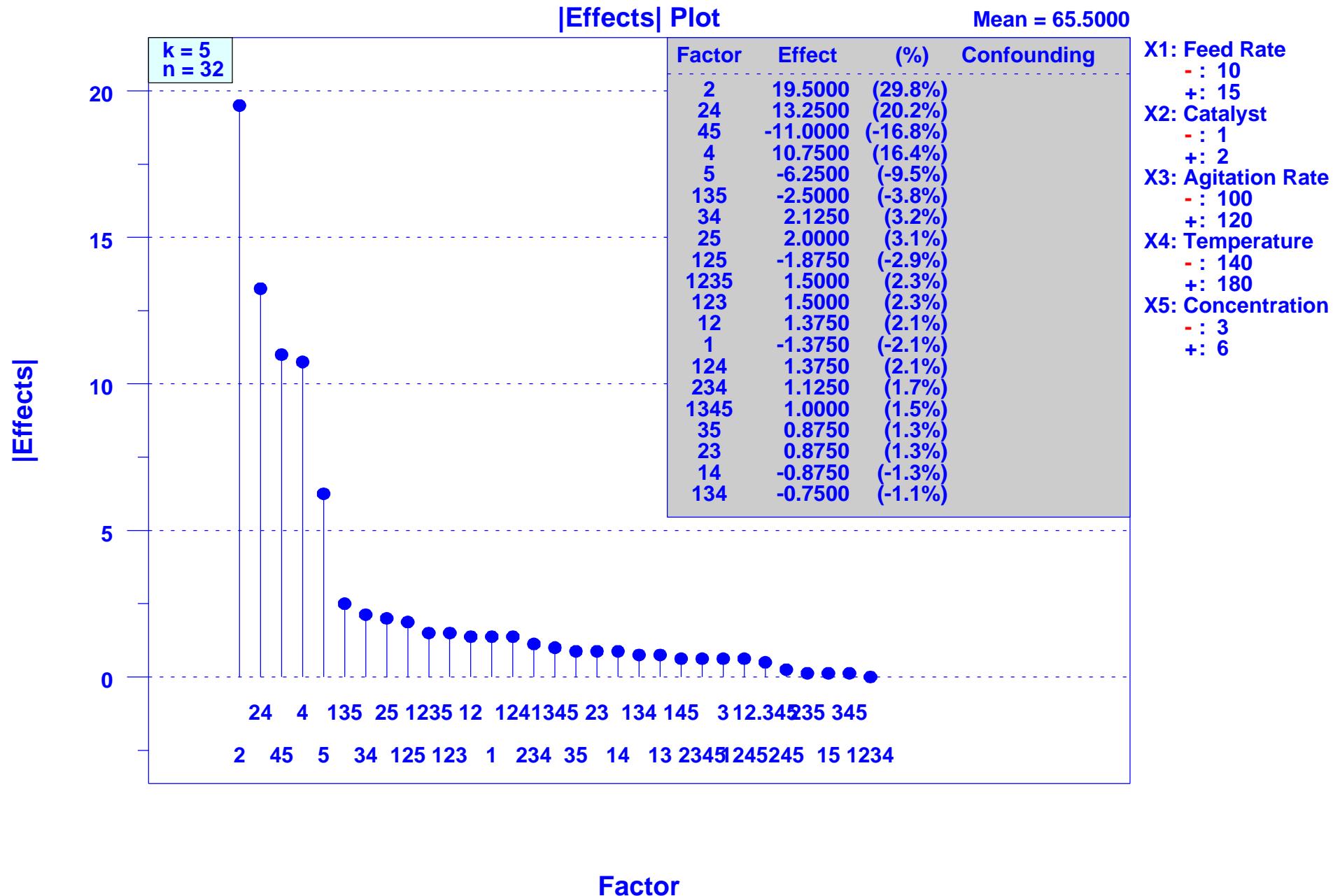
Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter)

Design: $2^{**}5$ ($k=5, n=32$)



Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter)

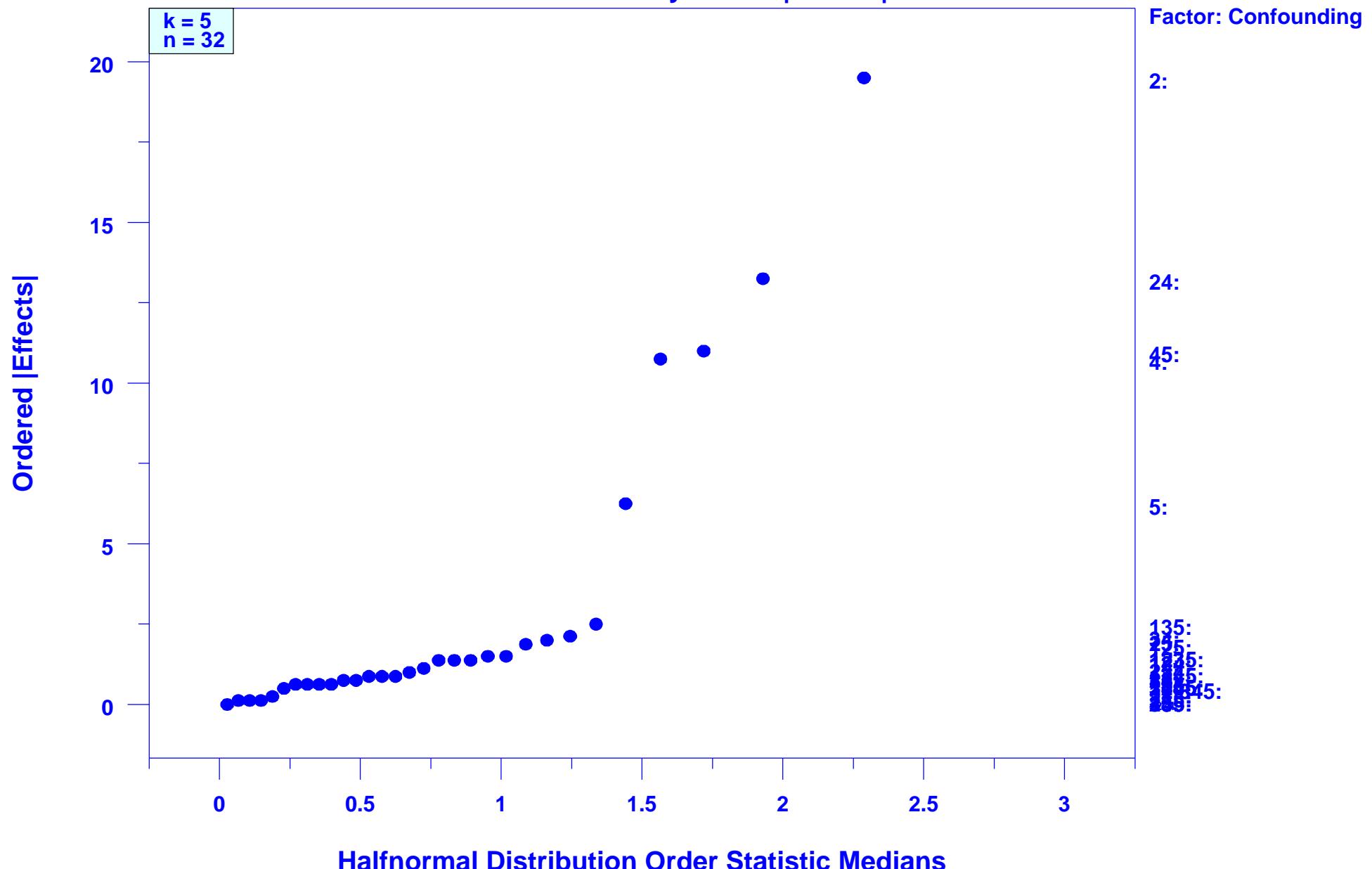
Design: $2^{**}5$ ($k=5, n=32$)



Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter)

Design: 2^{**5} ($k=5, n=32$)

Halfnormal Probability Plot of |Effects|

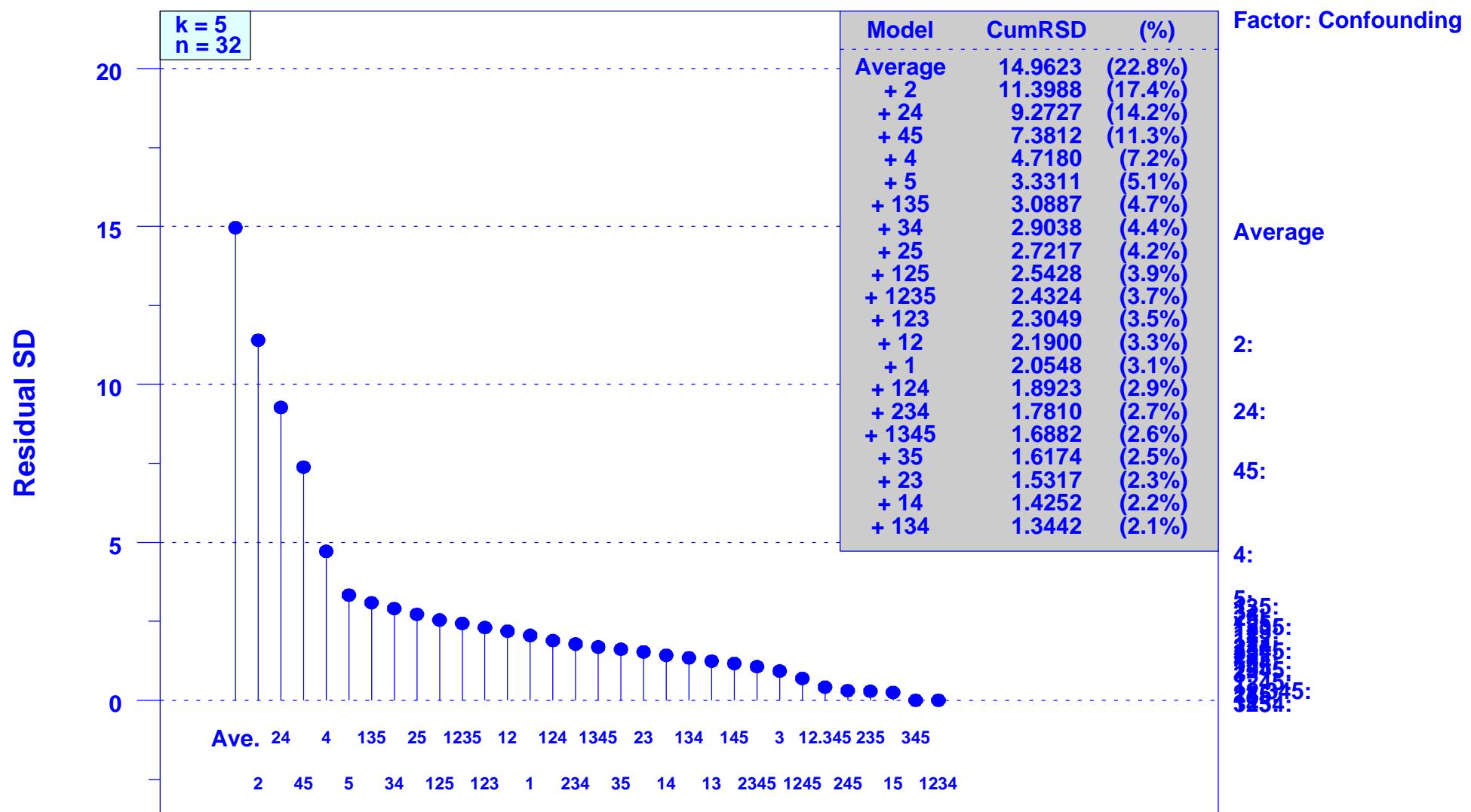


Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter)

Design: 2^{**5} ($k=5, n=32$)

Cumulative Residual SD Plot

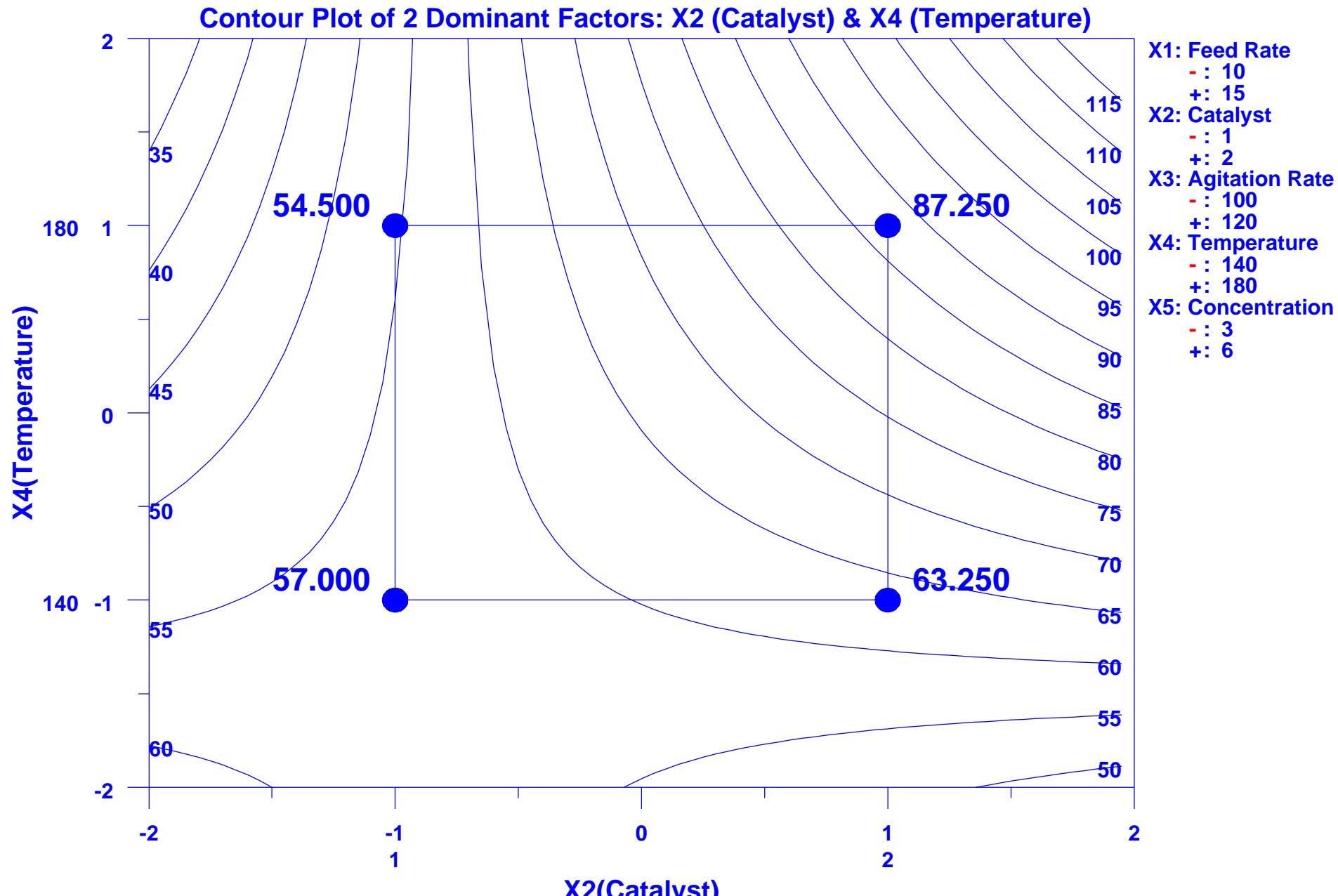
Mean = 65.5000



Cumulative Model

Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter)

Design: $2^{**}5$ ($k=5, n=32$)



Center-Point Predicted Value (From 2-Factor Edge-based Model) = 65.5000