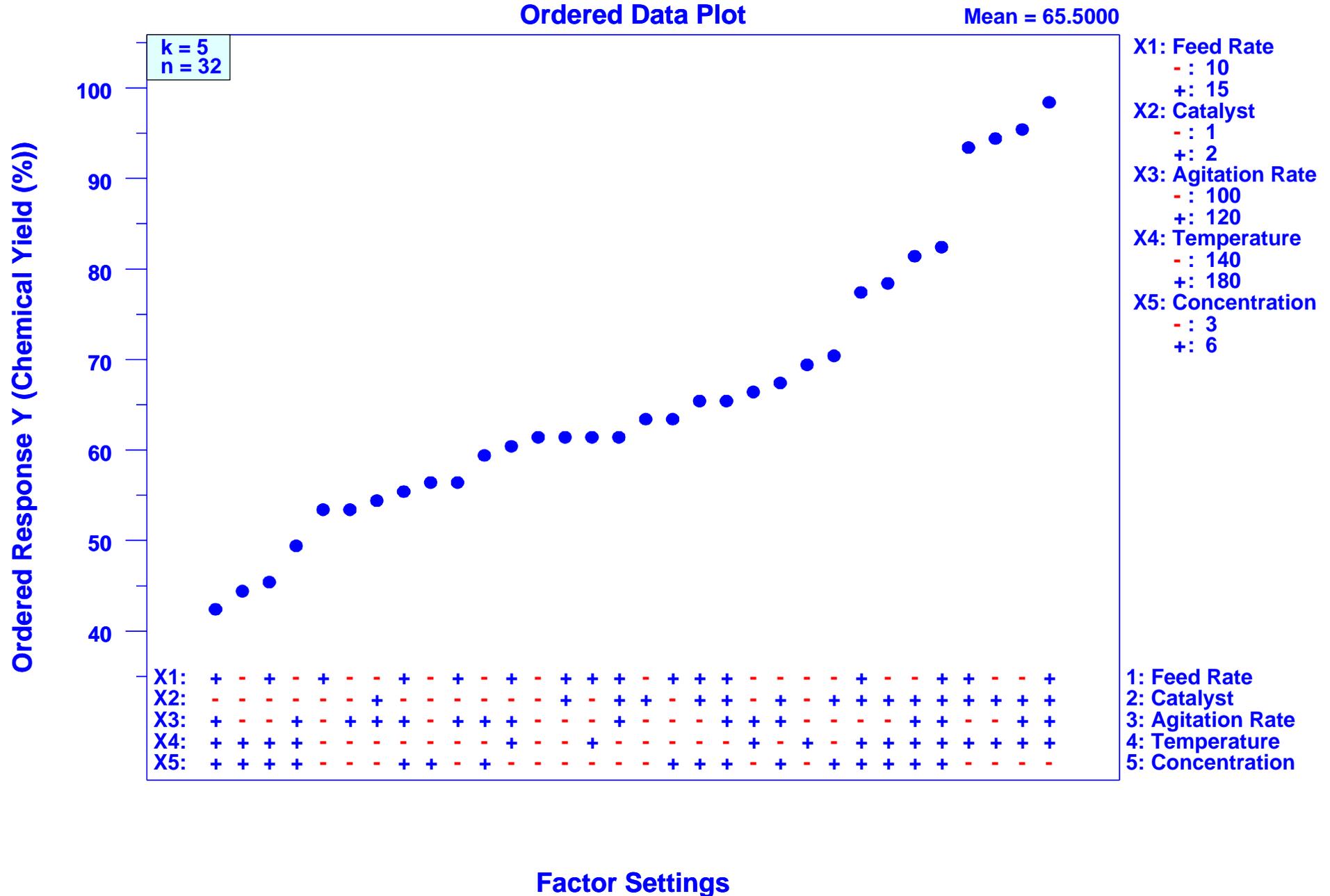
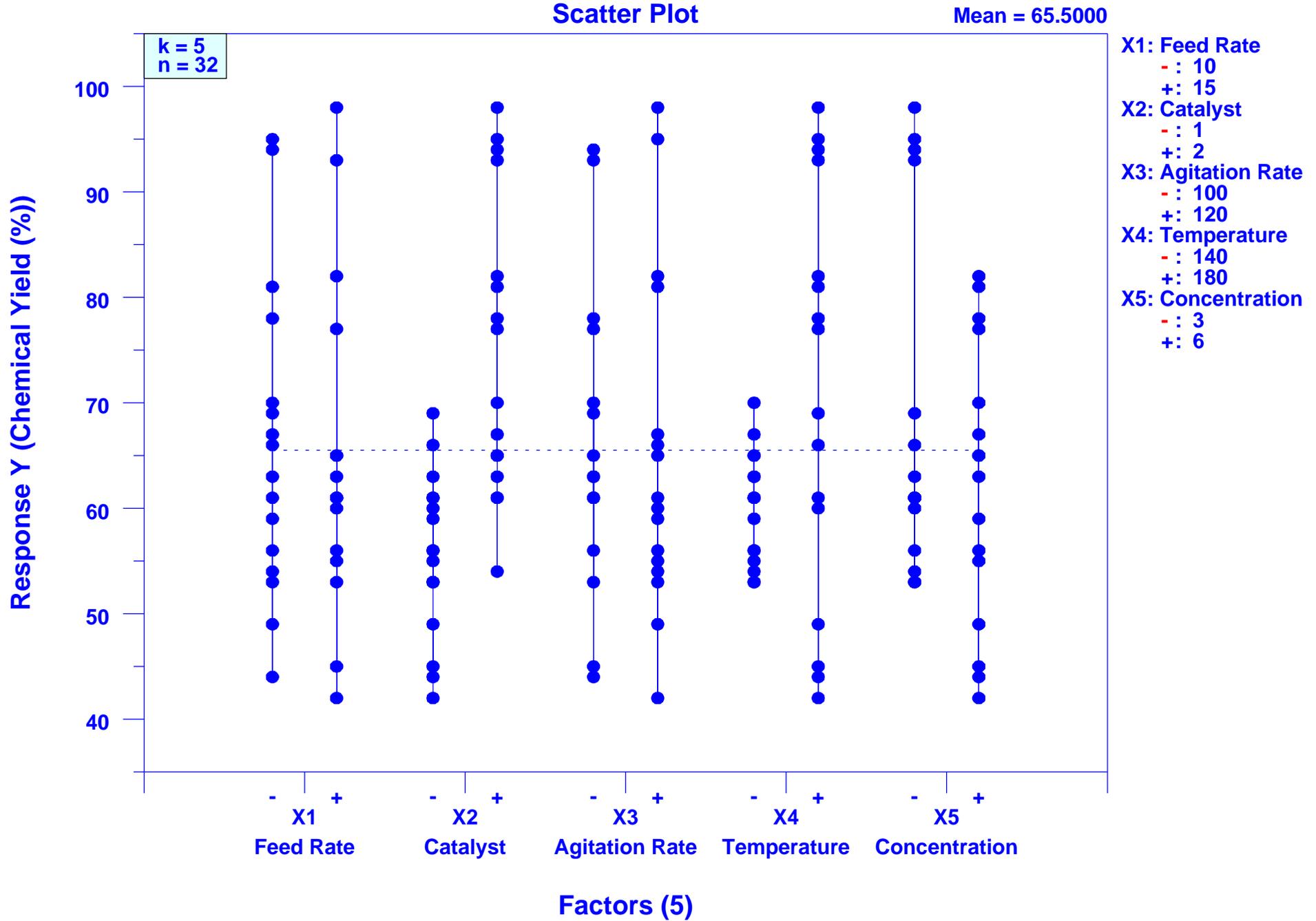


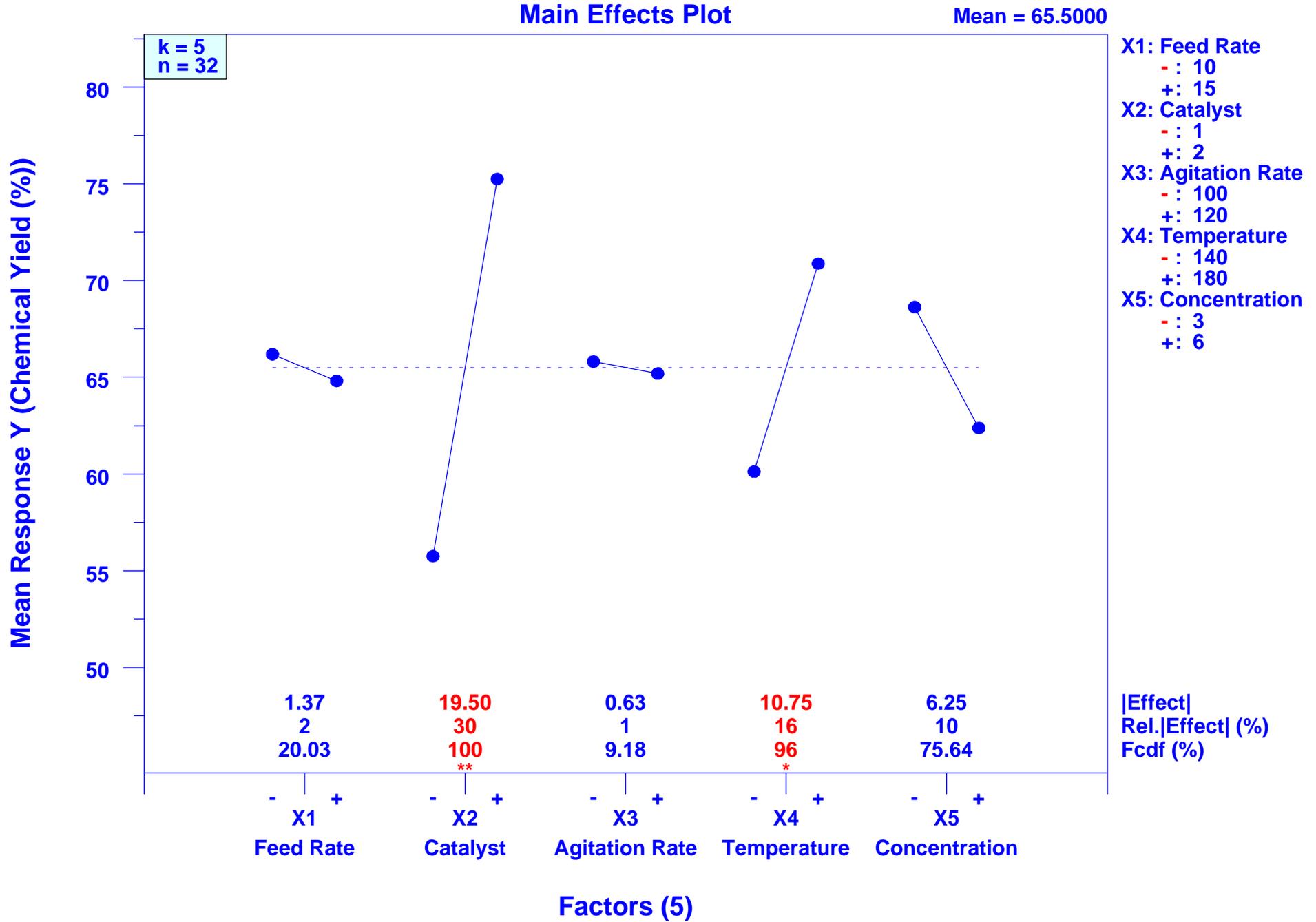
Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter)
 Design: 2**5 (k=5,n=32)



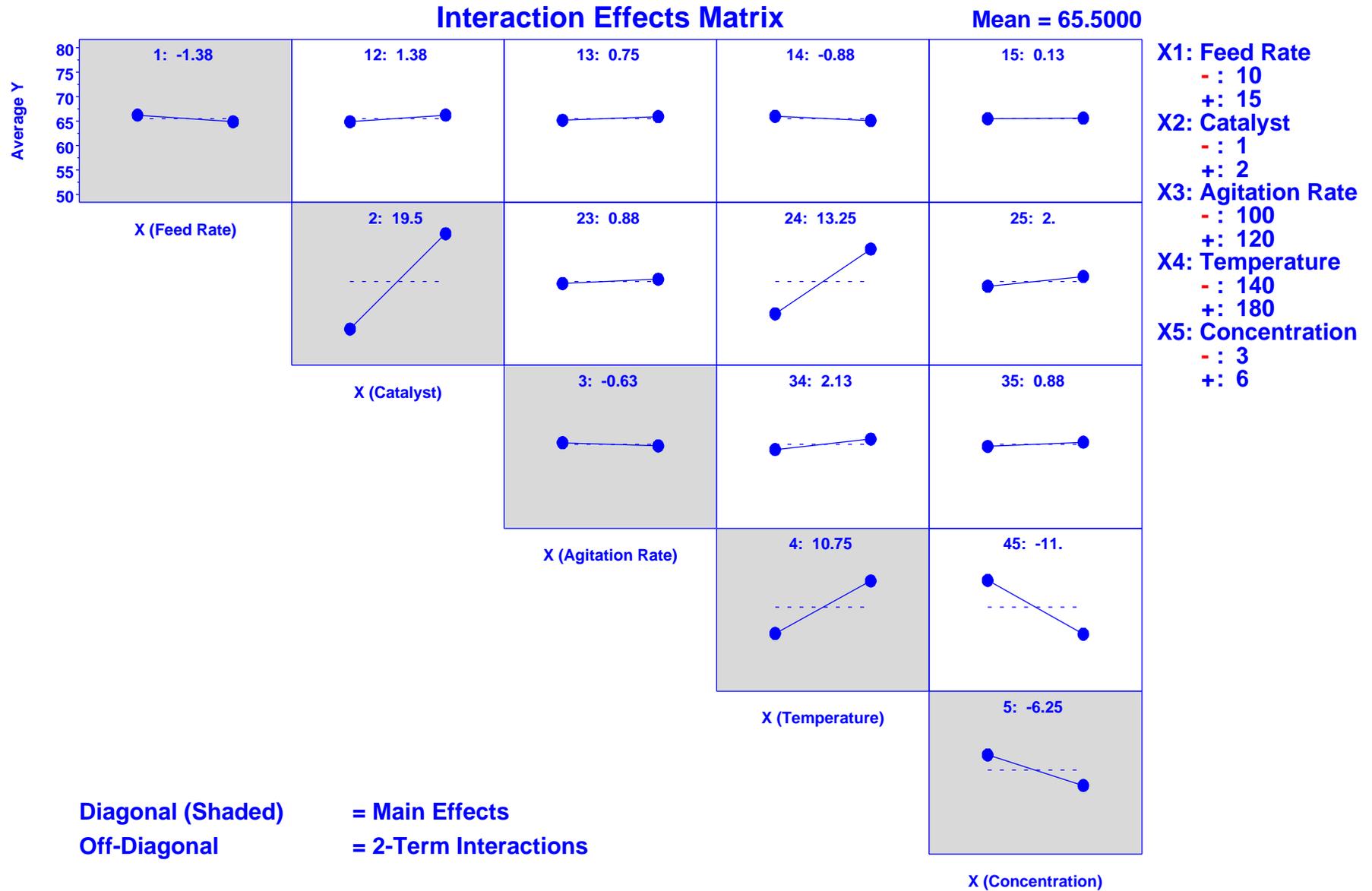
Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter)
 Design: 2**5 (k=5,n=32)



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

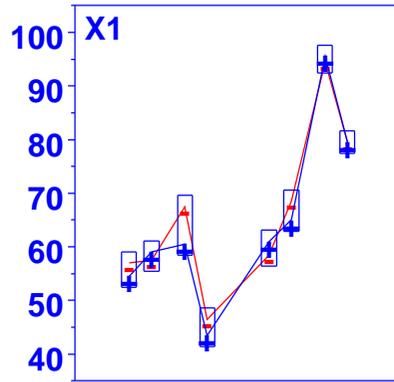


Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter) Design: $2^{**}5$ (k=5,n=32)

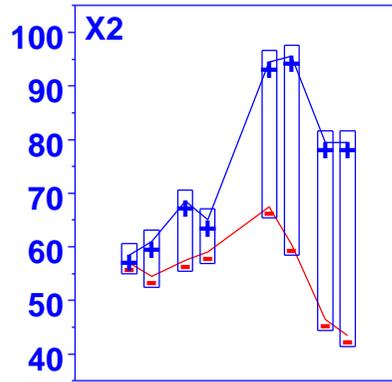


Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter) Design: 2**5 (k=5, n=32)

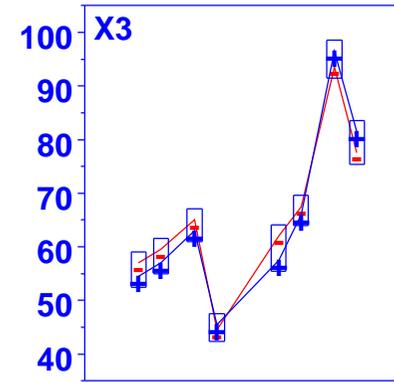
Block Plot



X2: -- -- ++ ++
 X4: -- ++ -- ++
 X5: -+ -+ -+ -+

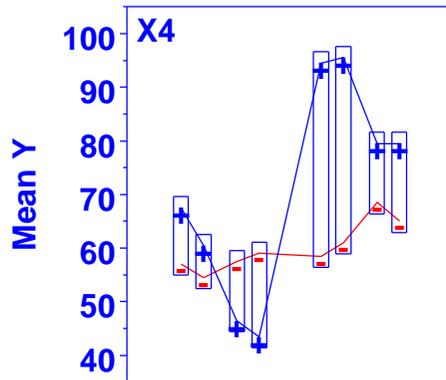


X4: -- -- ++ ++
 X5: -- ++ -- ++
 X1: -+ -+ -+ -+

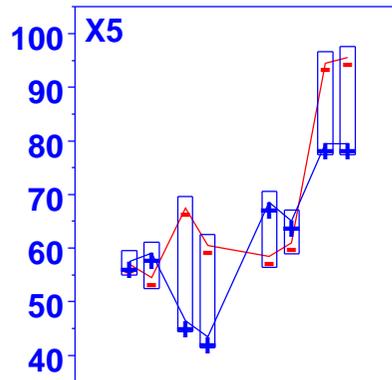


X2: -- -- ++ ++
 X4: -- ++ -- ++
 X5: -+ -+ -+ -+

X1: Feed Rate
 - : 10
 + : 15
 X2: Catalyst
 - : 1
 + : 2
 X3: Agitation Rate
 - : 100
 + : 120
 X4: Temperature
 - : 140
 + : 180
 X5: Concentration
 - : 3
 + : 6



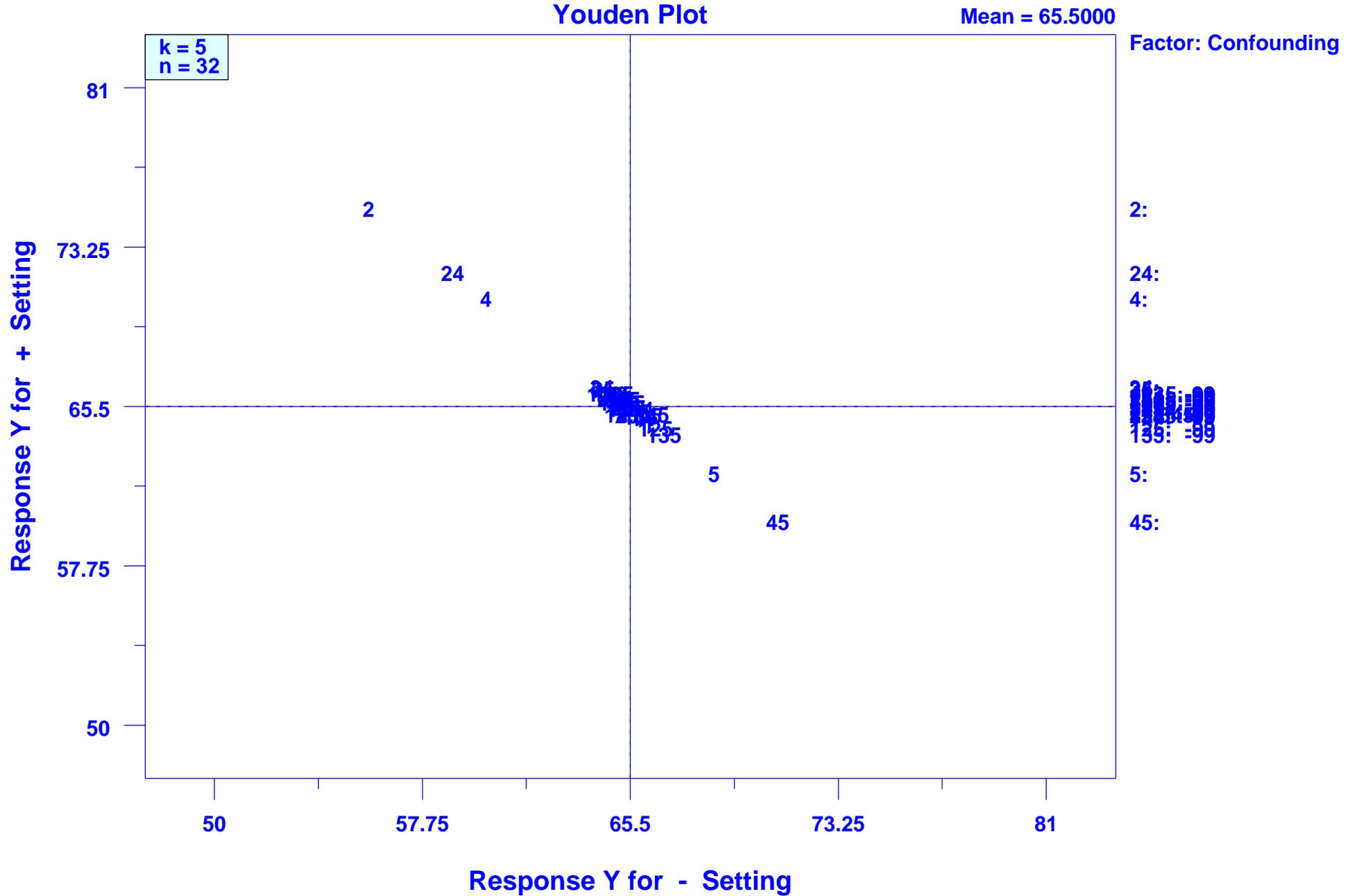
X2: -- -- ++ ++
 X5: -- ++ -- ++
 X1: -+ -+ -+ -+



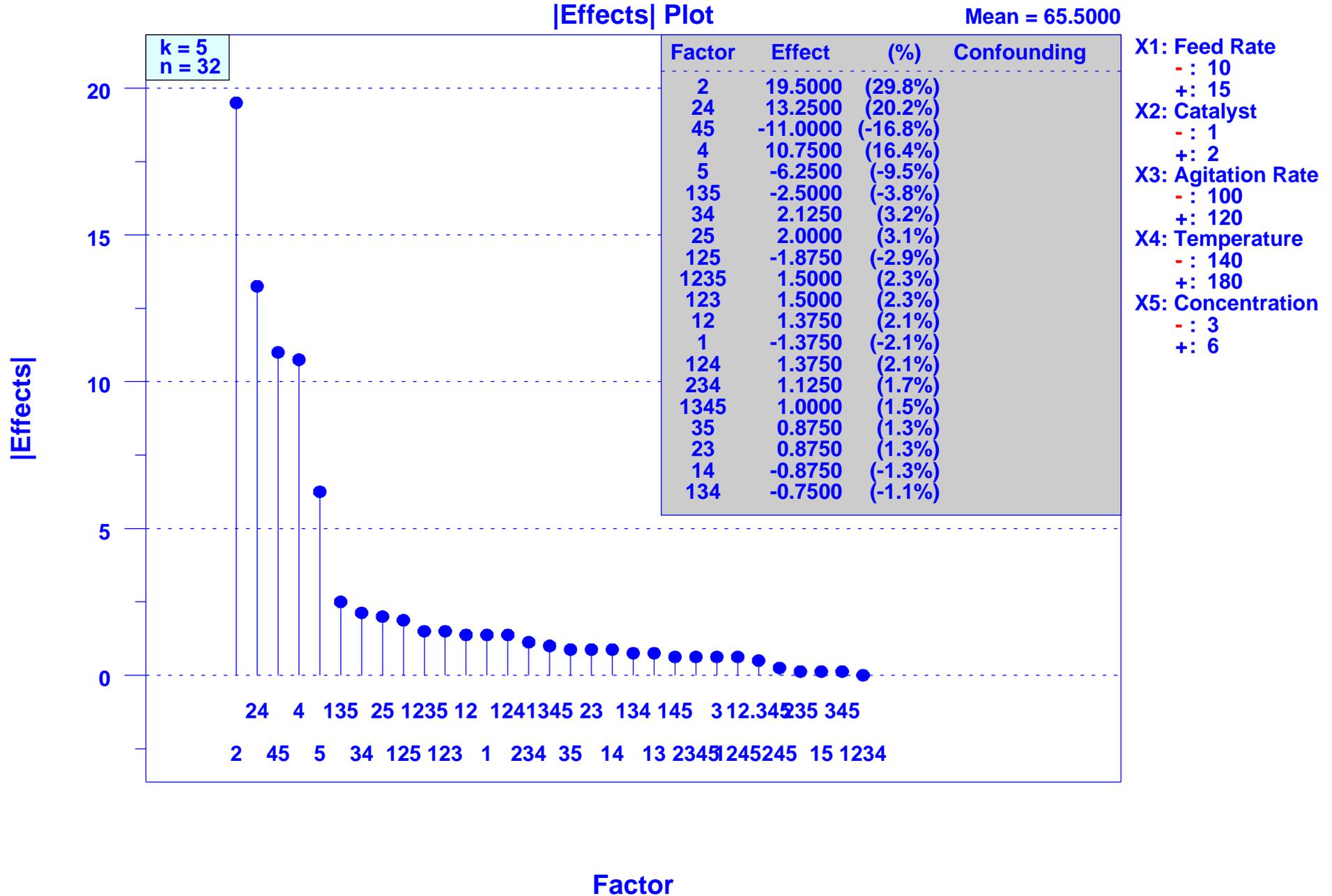
X2: -- -- ++ ++
 X4: -- ++ -- ++
 X1: -+ -+ -+ -+

Robustness Factor Setting

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



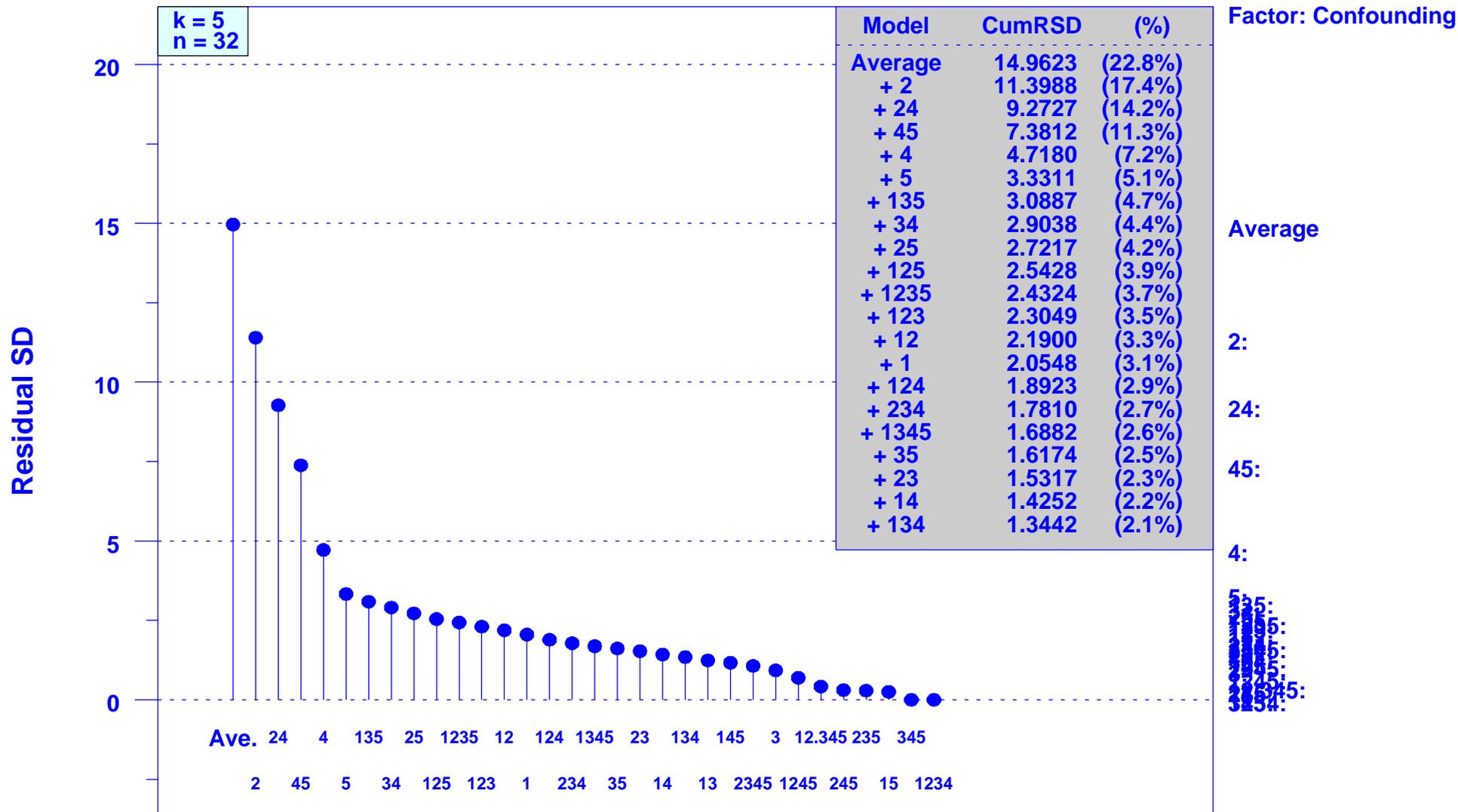
Factors Affecting Chemical Reactor Yield (Box, Hunter, & Hunter) Design: 2**5 (k=5,n=32)



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

Cumulative Residual SD Plot

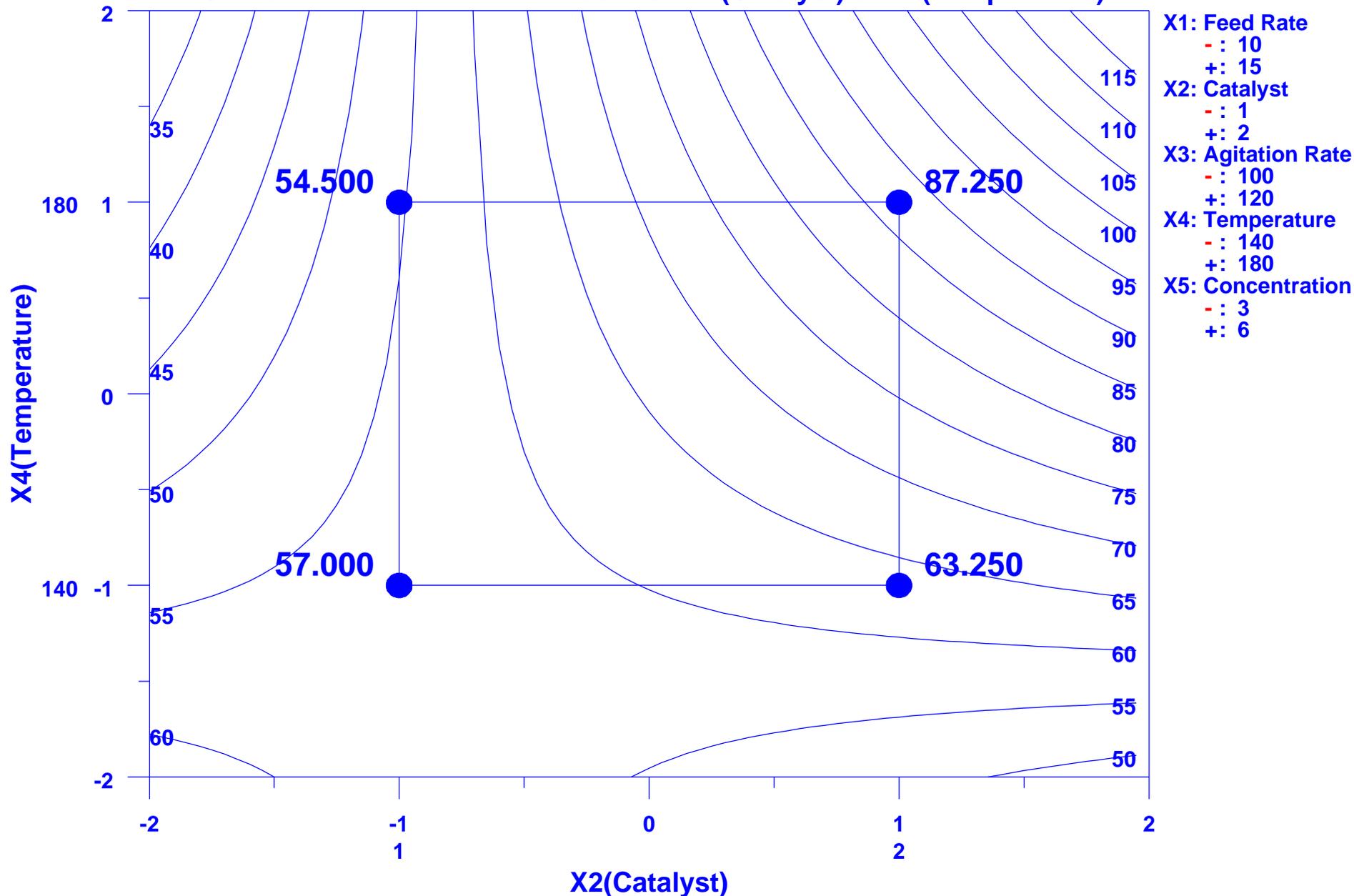
Mean = 65.5000



Cumulative Model

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

Contour Plot of 2 Dominant Factors: X2 (Catalyst) & X4 (Temperature)



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