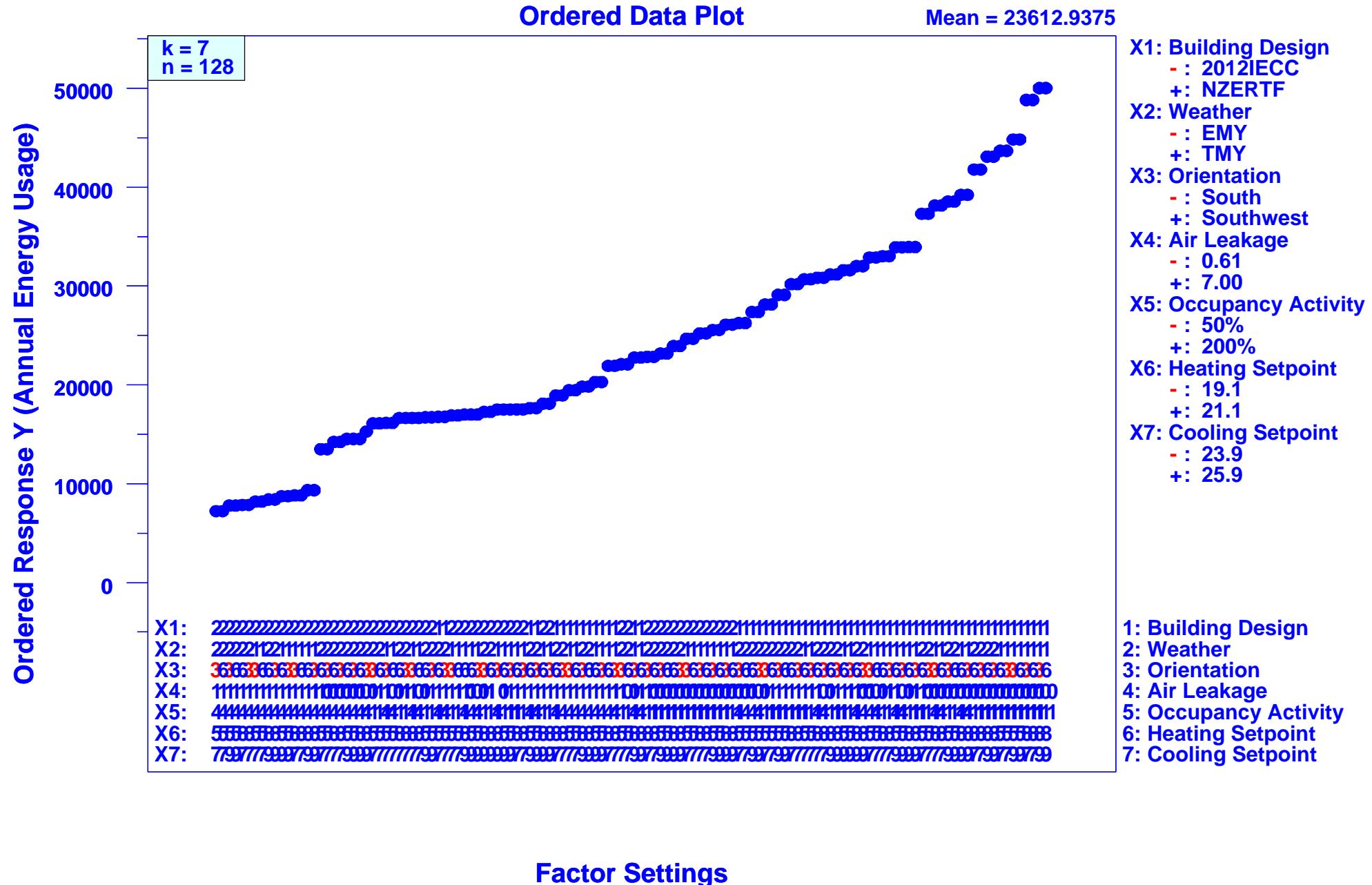


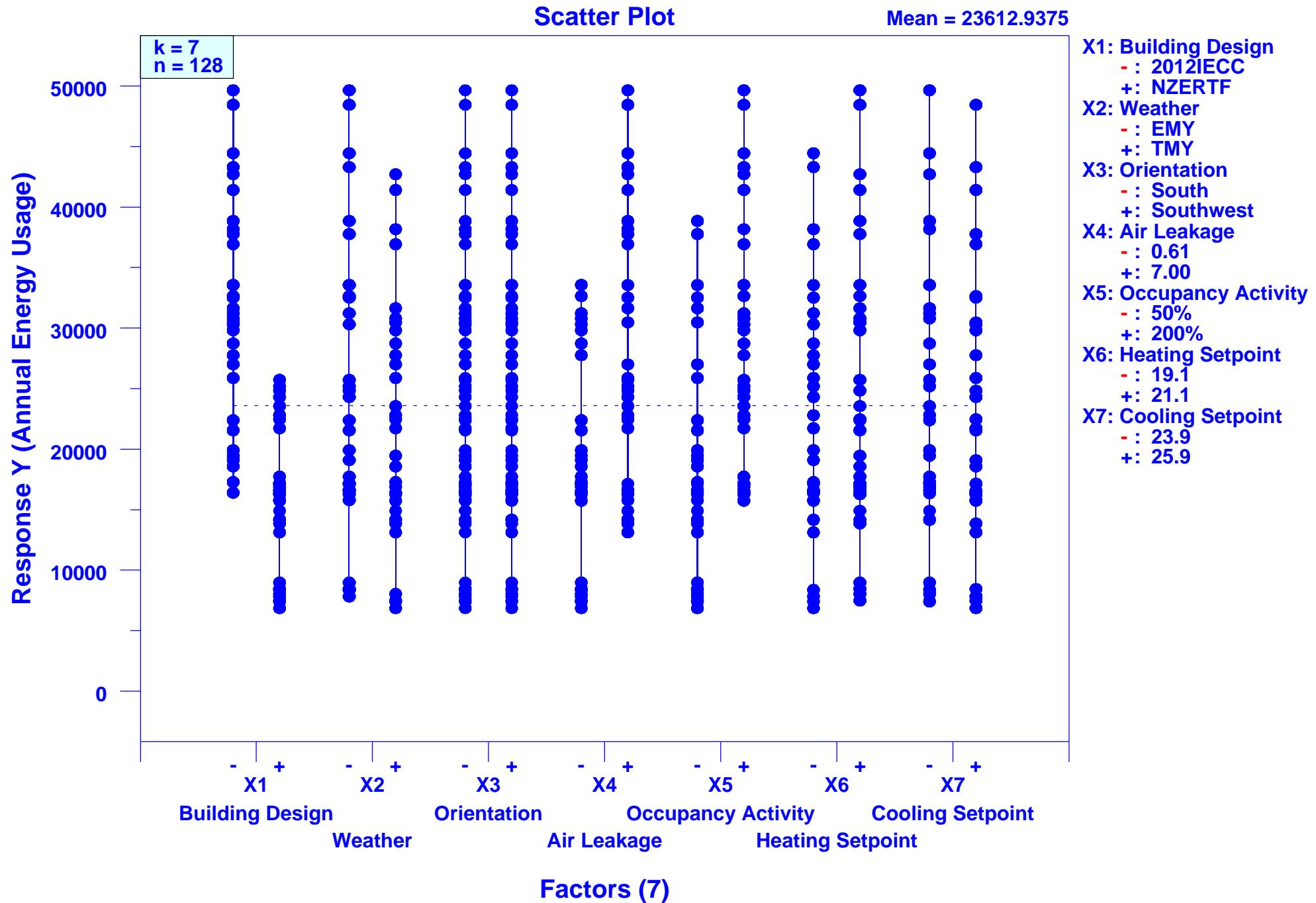
Sensitivity Analysis of Energy Usage for the NIST Net-Zero House

Design: 2^{**7} ($k=7, n=128$)



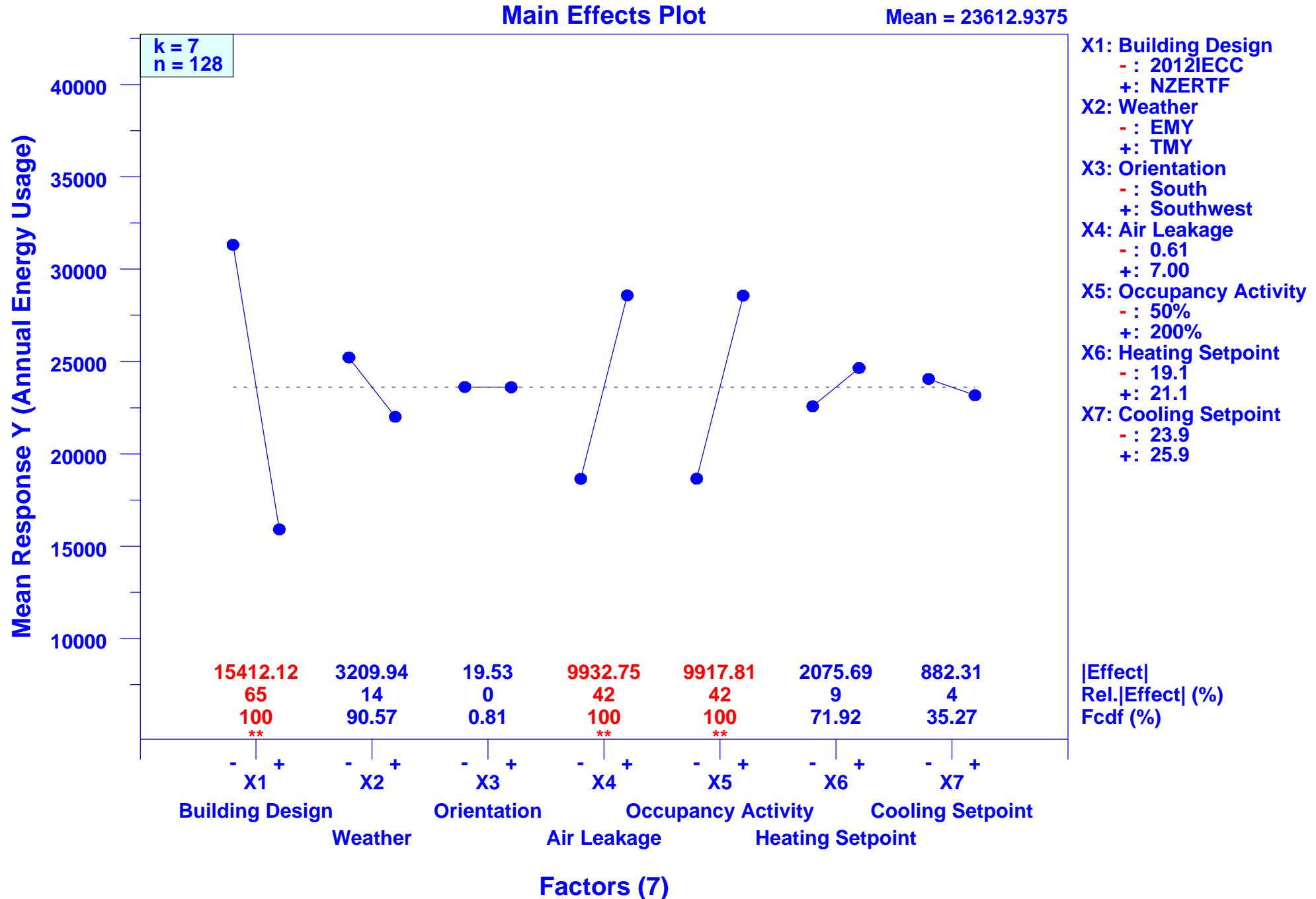
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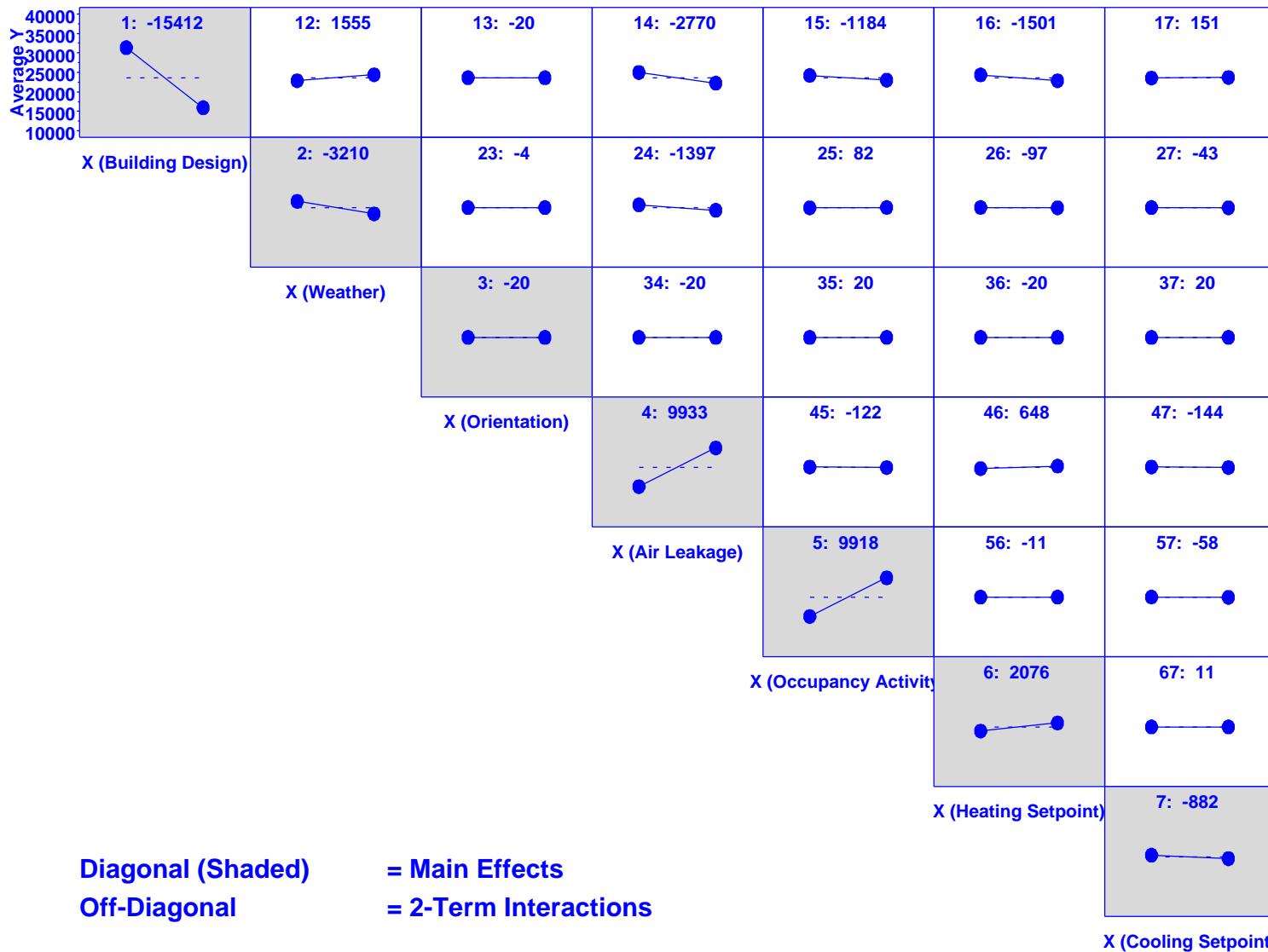


Sensitivity Analysis of Energy Usage for the NIST Net-Zero House

Design: 2^{**7} ($k=7, n=128$)

Interaction Effects Matrix

Mean = 23612.9375



X1: Building Design

- : 2012IECC

+ : NZERTF

X2: Weather

- : EMY

+ : TMY

X3: Orientation

- : South

+ : Southwest

X4: Air Leakage

- : 0.61

+ : 7.00

X5: Occupancy Activity

- : 50%

+ : 200%

X6: Heating Setpoint

- : 19.1

+ : 21.1

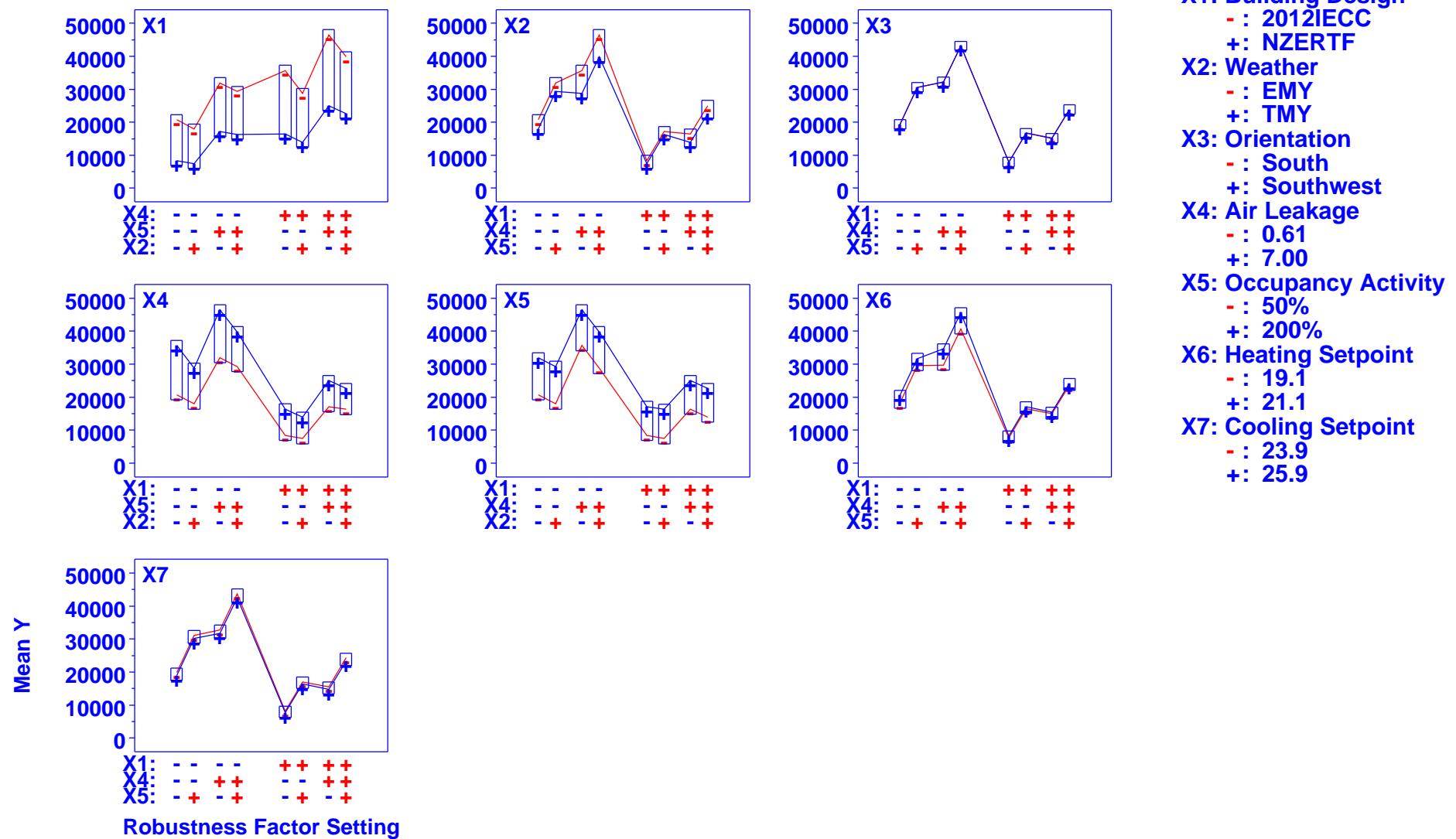
X7: Cooling Setpoint

- : 23.9

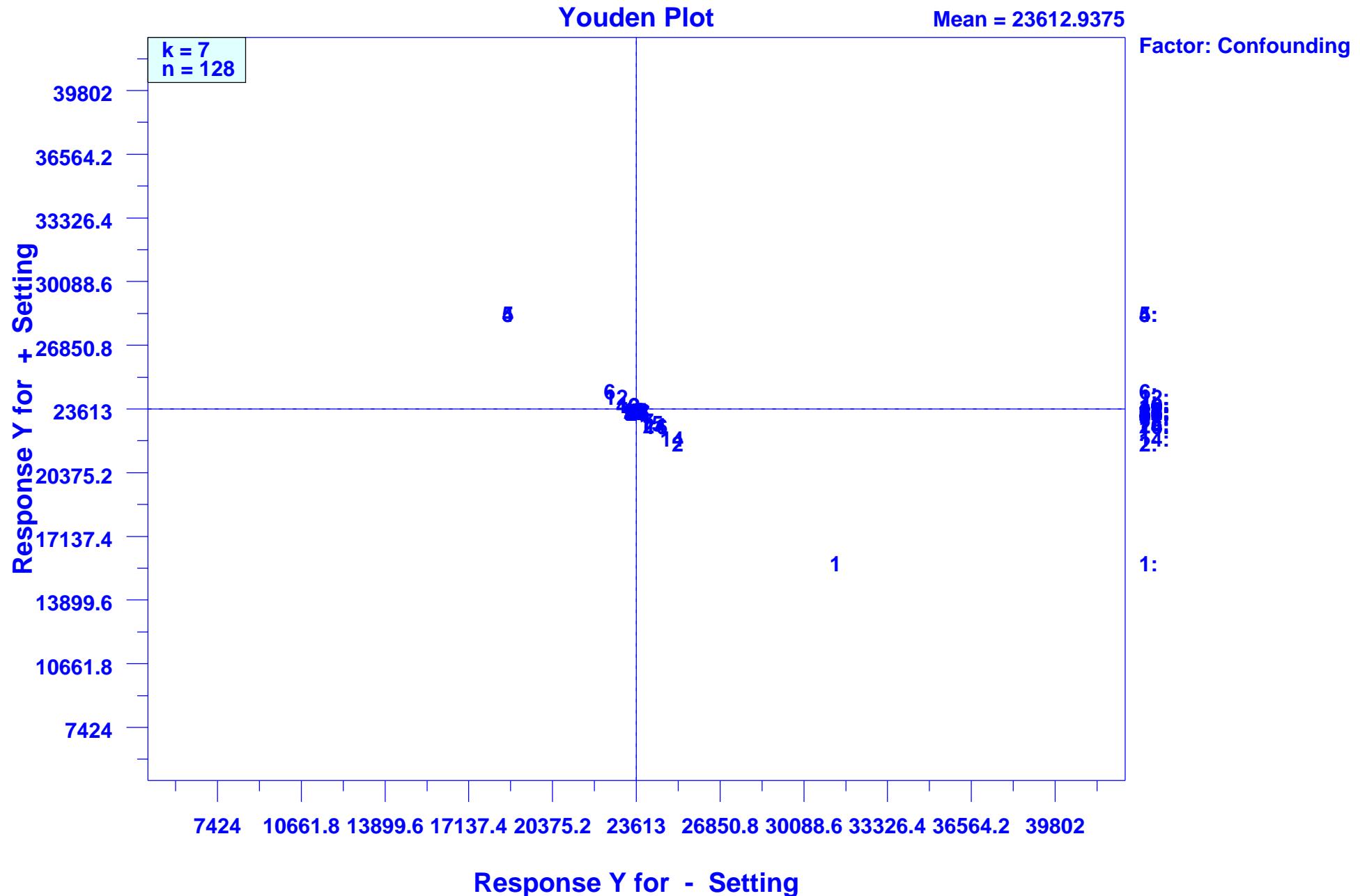
+ : 25.9

Sensitivity Analysis of Energy Usage for the NIST Net-Zero House Design: 2**7 (k=7,n=128)

Block Plot

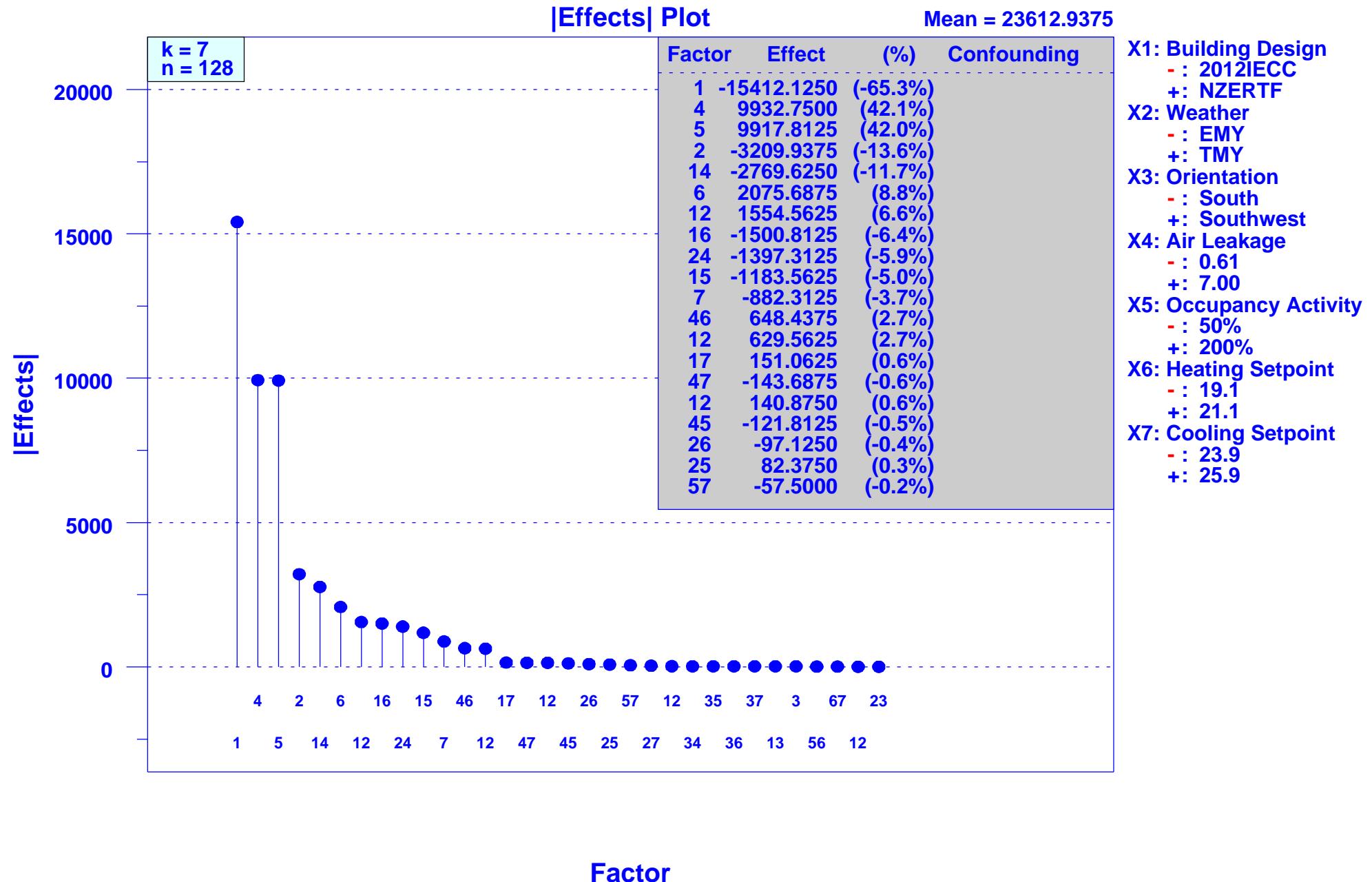


Sensitivity Analysis of Energy Usage for the NIST Net-Zero House Design: 2**7 (k=7,n=128)

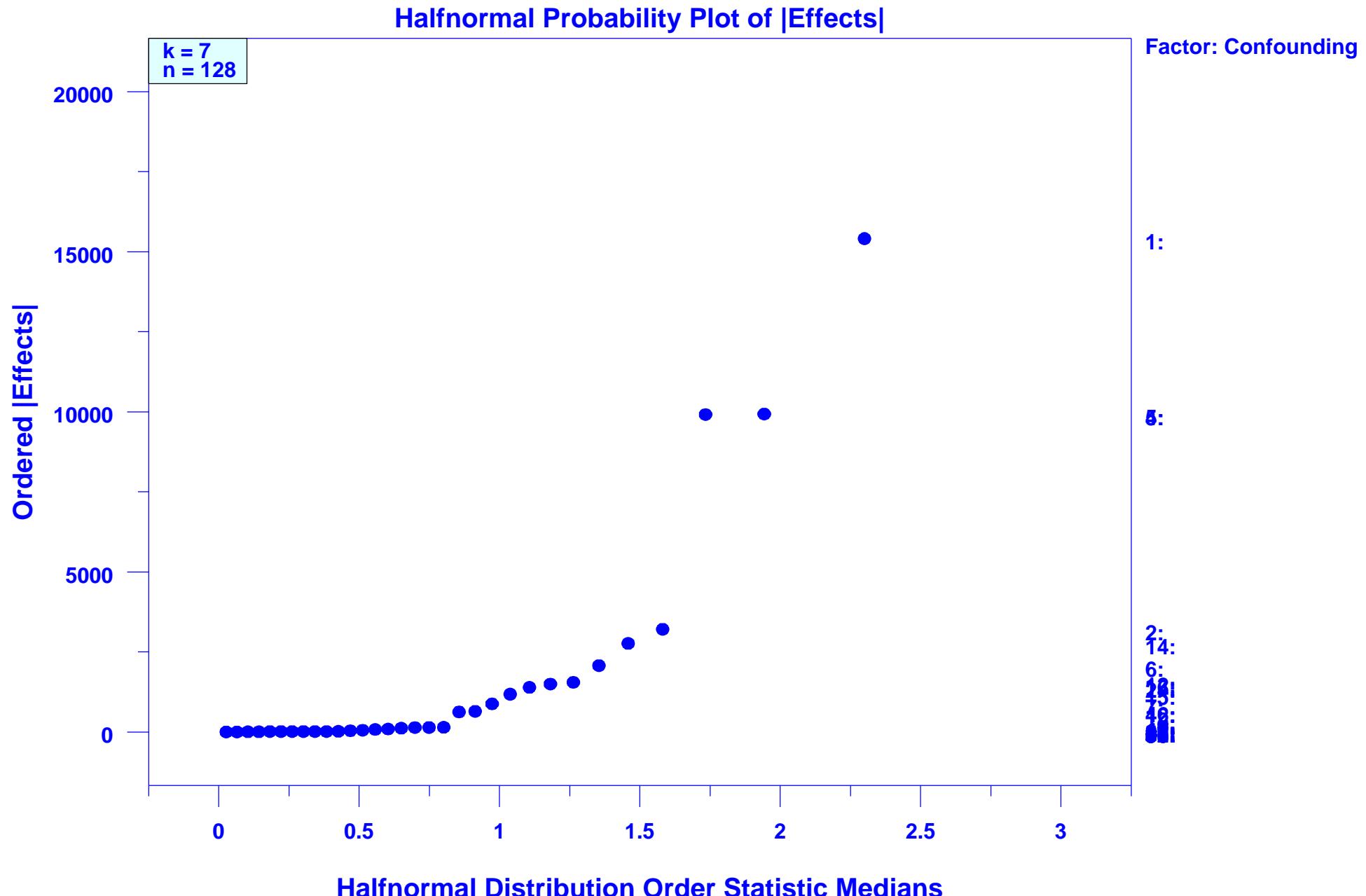


Sensitivity Analysis of Energy Usage for the NIST Net-Zero House

Design: 2**7 (k=7,n=128)



Sensitivity Analysis of Energy Usage for the NIST Net-Zero House Design: 2^{**7} ($k=7, n=128$)

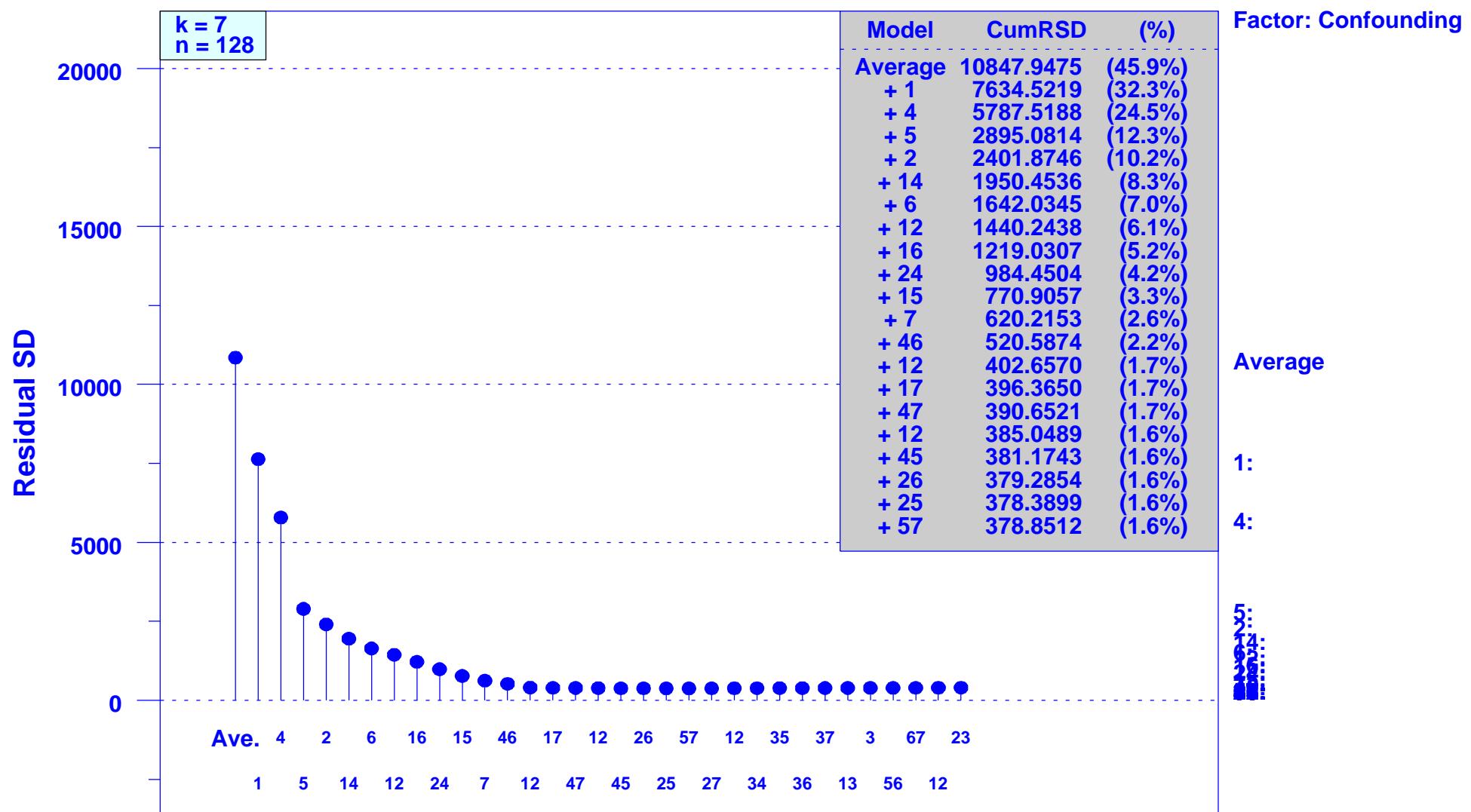


Sensitivity Analysis of Energy Usage for the NIST Net-Zero House

Design: 2^{**7} ($k=7, n=128$)

Cumulative Residual SD Plot

Mean = 23612.9375



Cumulative Model

Sensitivity Analysis of Energy Usage for the NIST Net-Zero House

Design: 2^{**7} ($k=7, n=128$)

