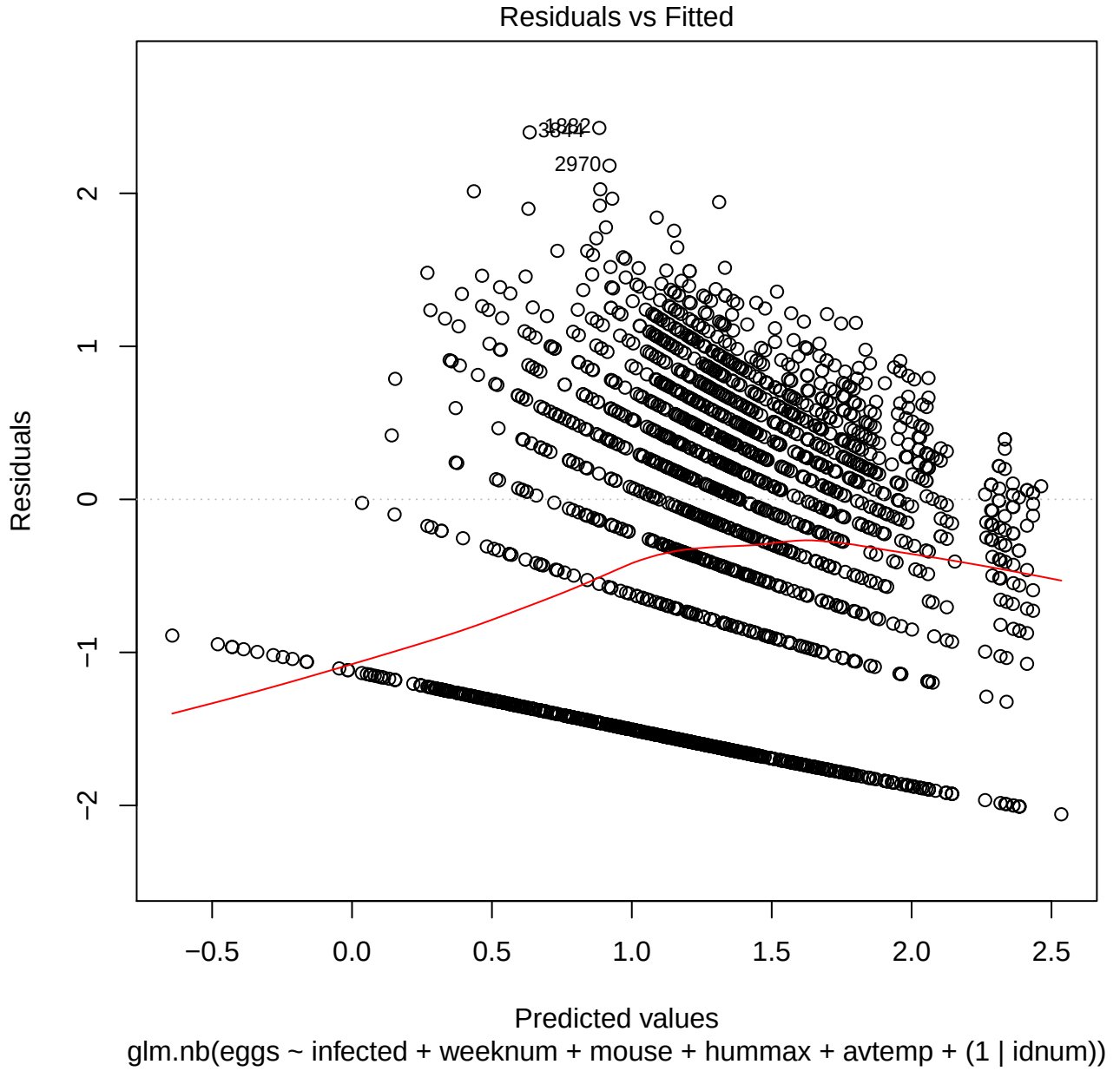
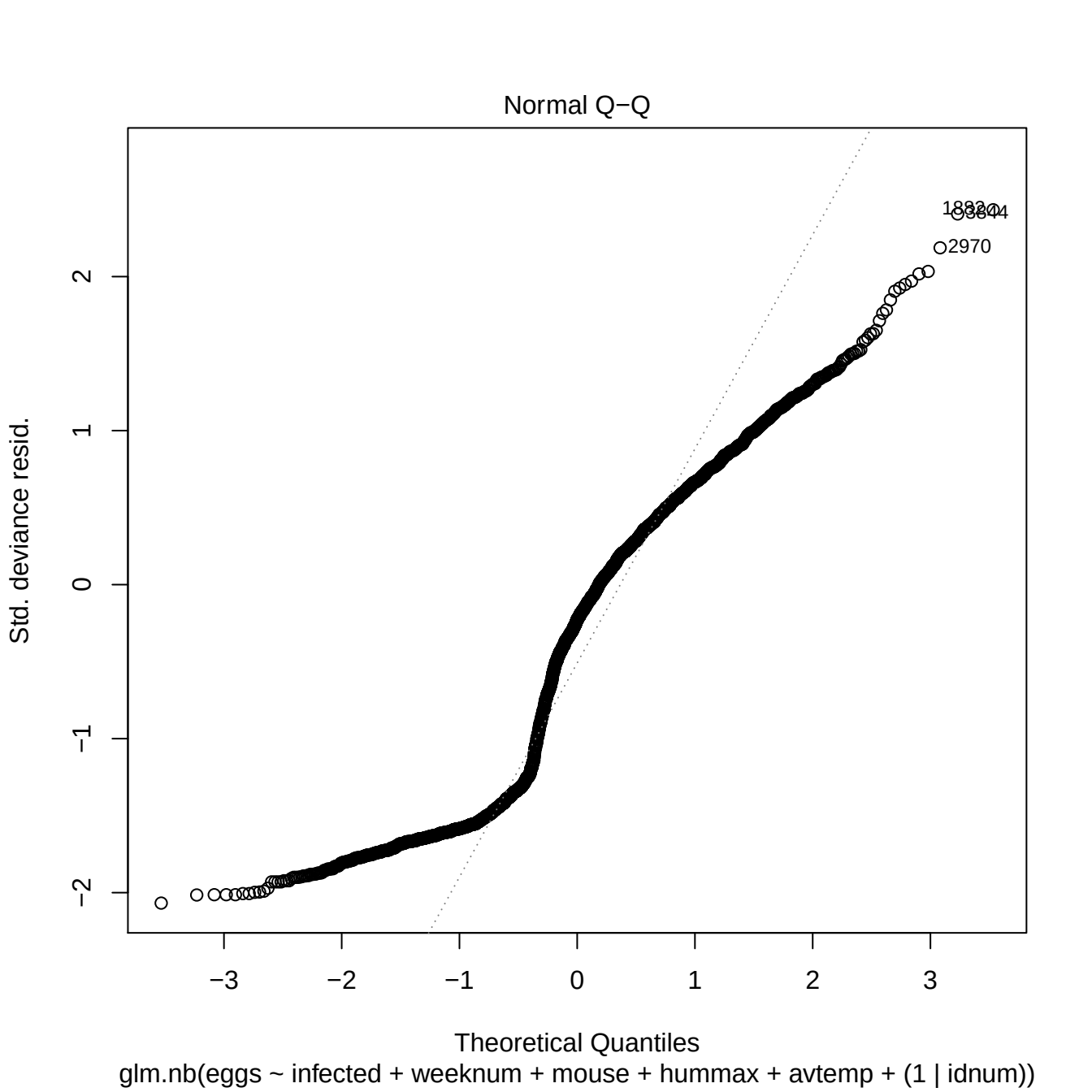
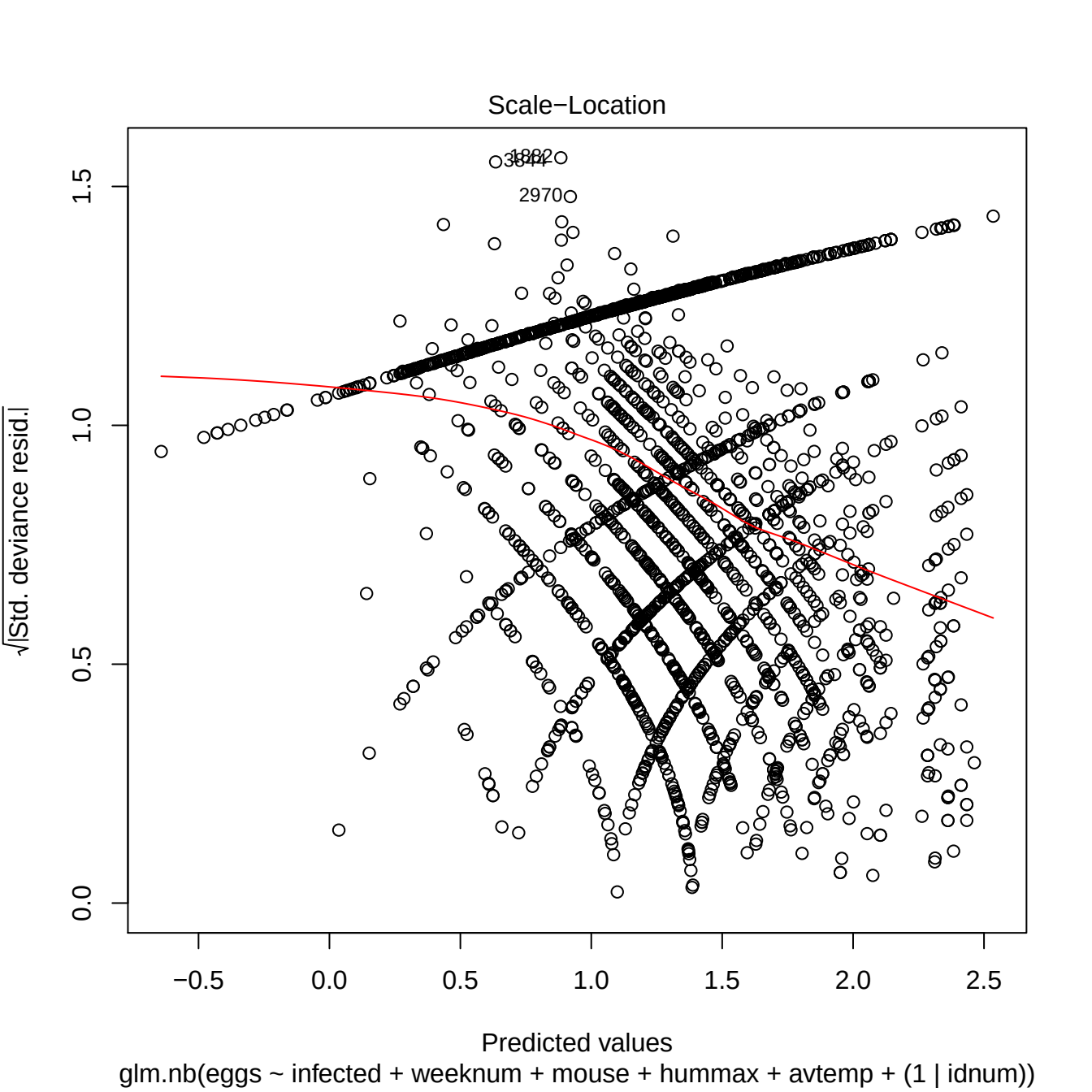
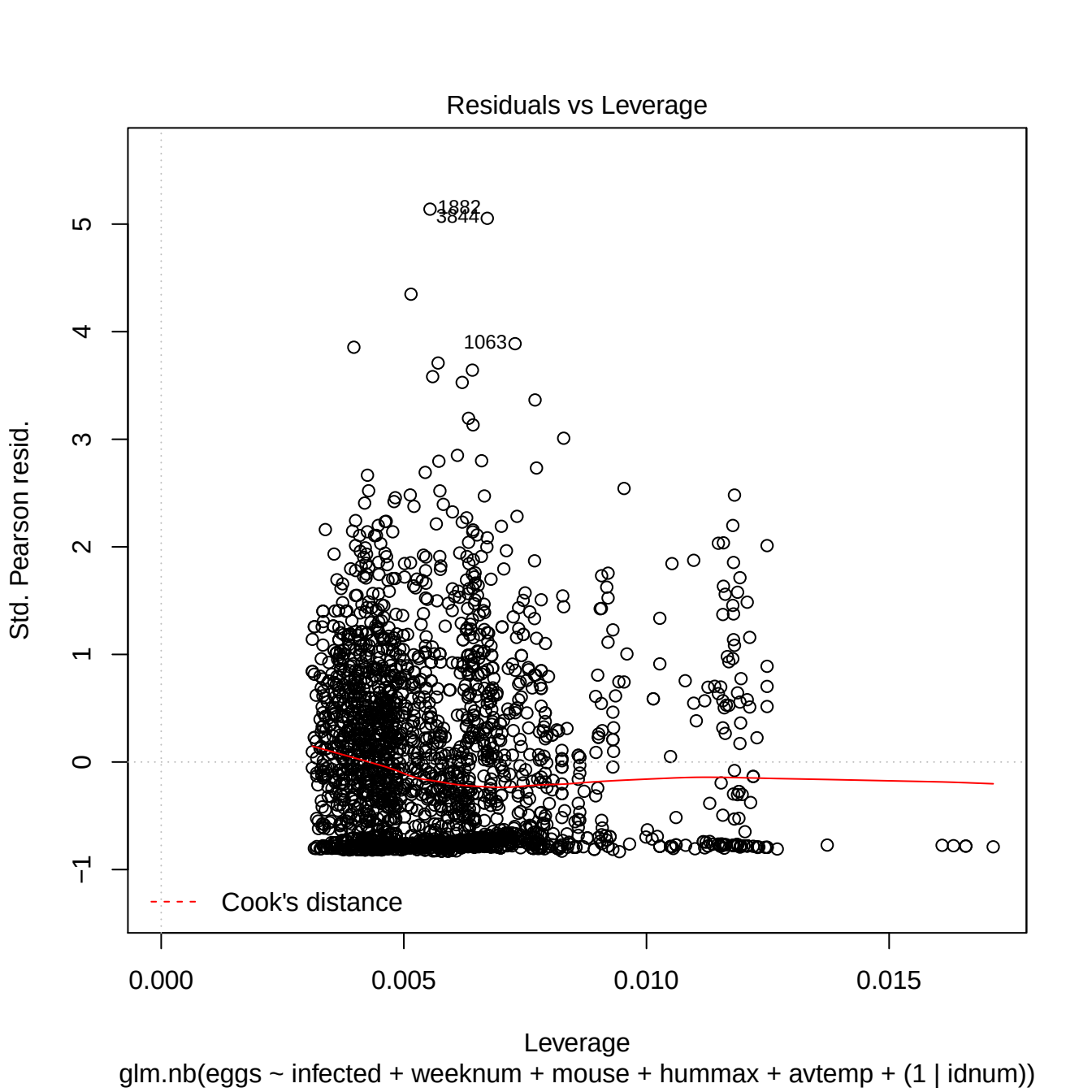
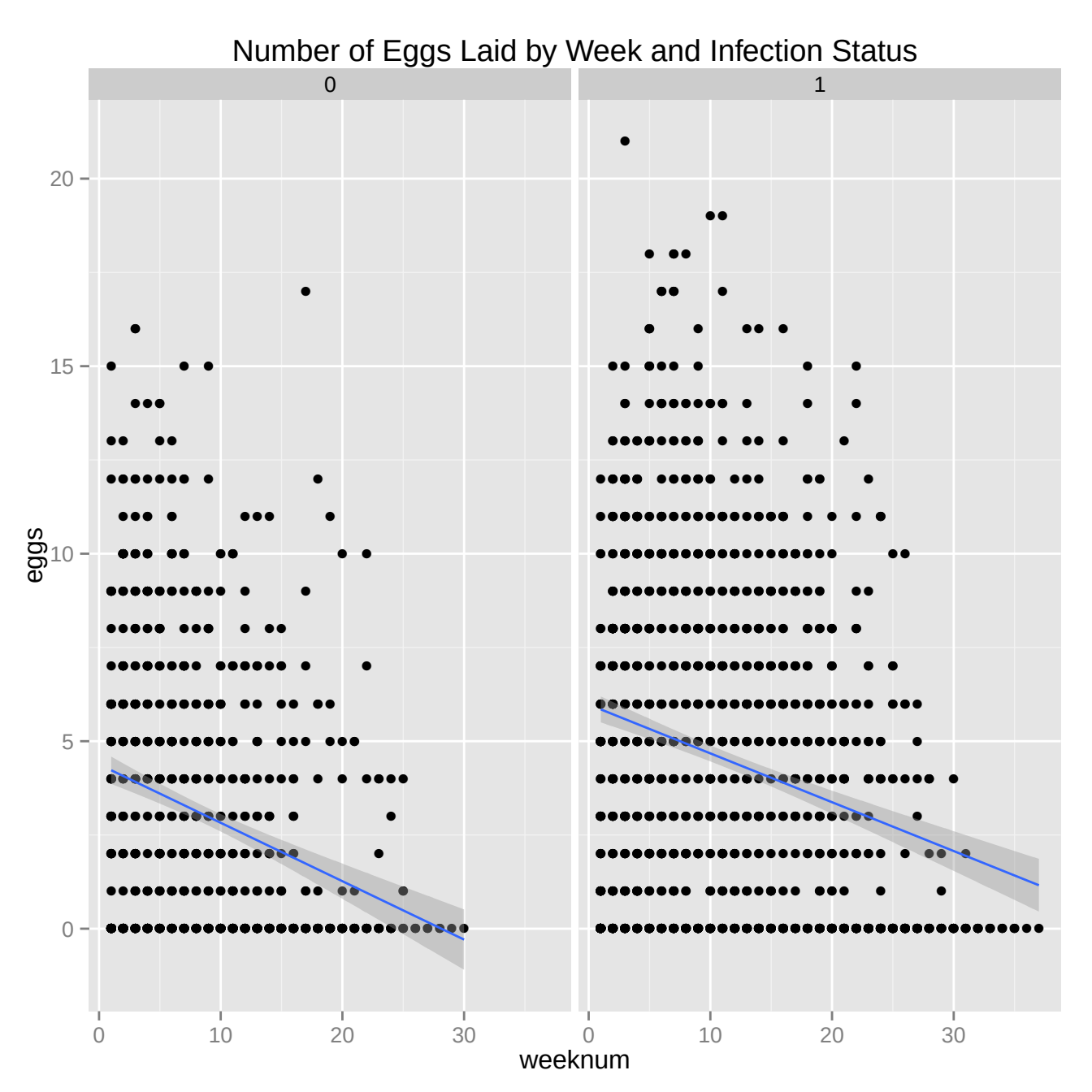
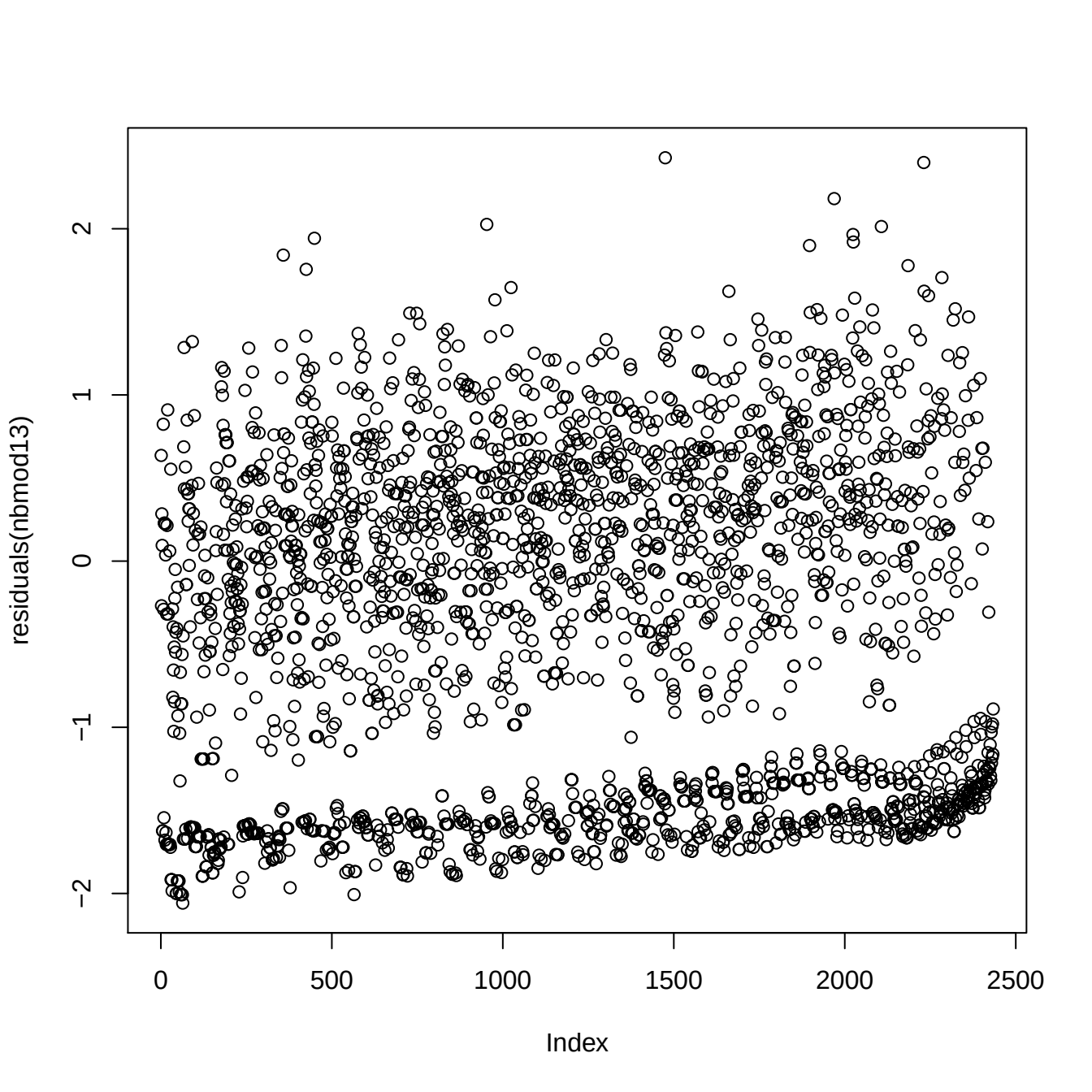

Residuals vs Fitted
Residuals
Predicted values
glm.nb(eggs ~ infected + weeknum + mouse + hummax + avtemp + (1 | idnum))
2970
−2
−1
0
1
2
−0.5
0.0
0.5
1.0
1.5
2.0
2.5

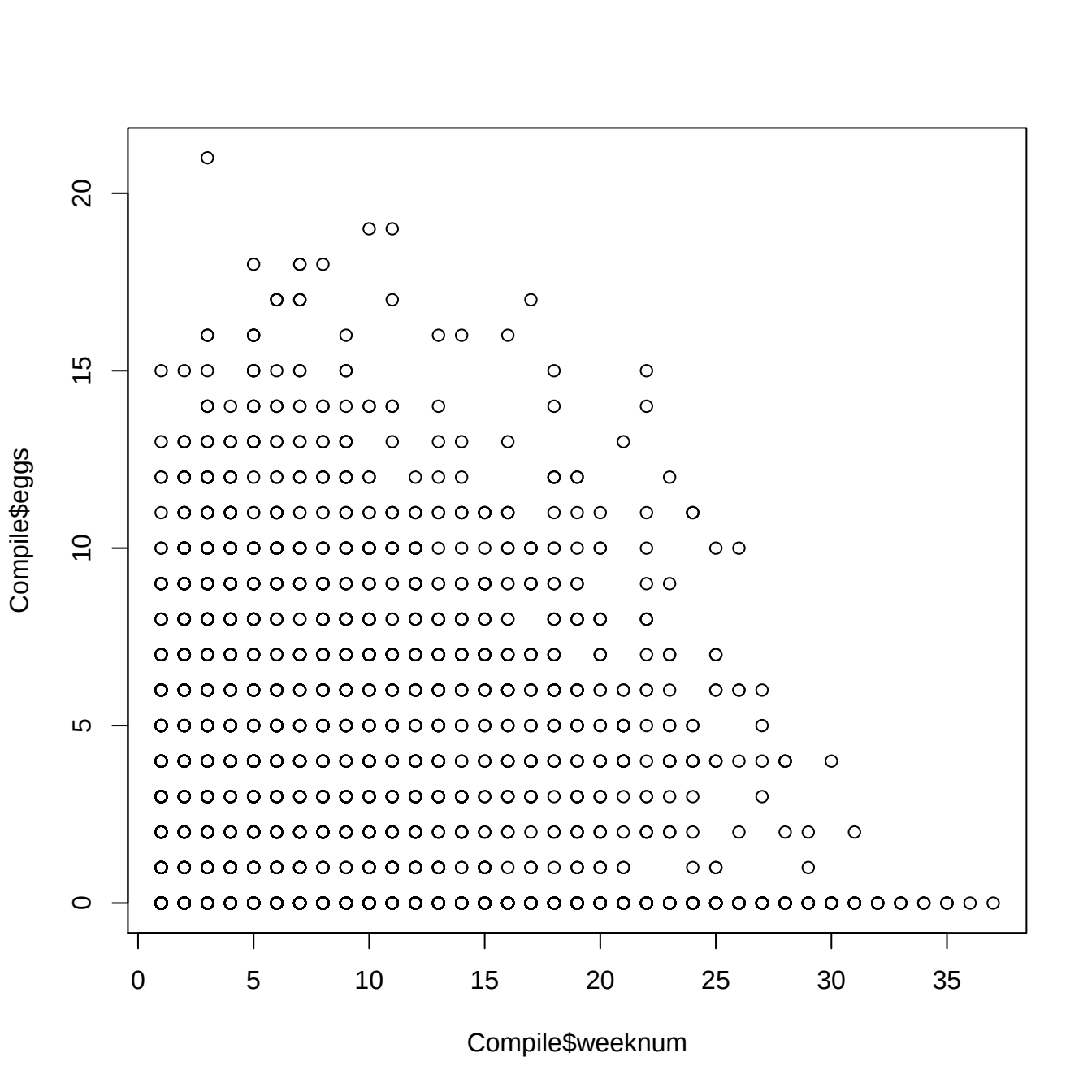

Normal Q−Q
Std. deviance resid.
Theoretical Quantiles
glm.nb(eggs ~ infected + weeknum + mouse + hummax + avtemp + (1 | idnum))
2970
−3
−2
−1
0
1
2
3

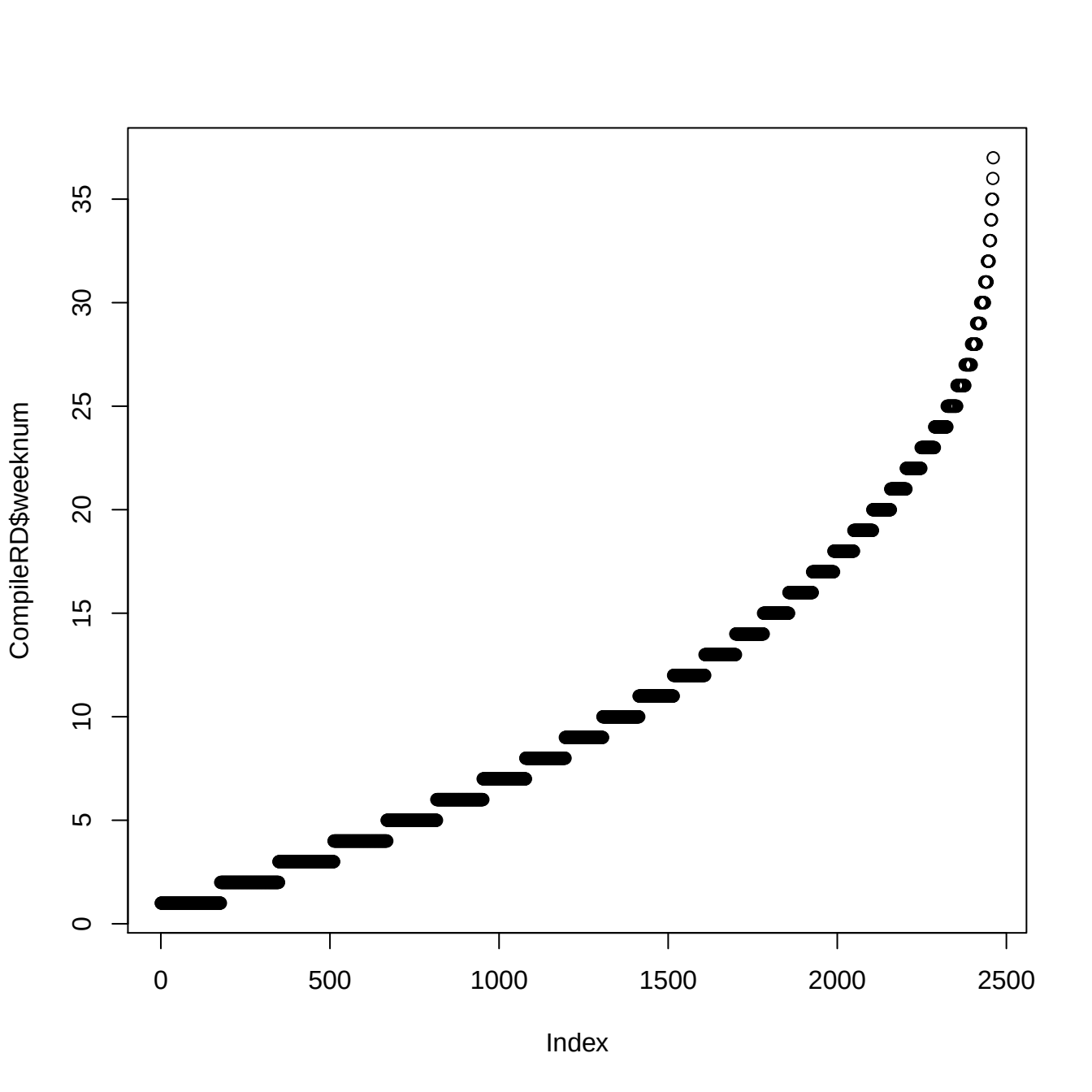

Scale−Location
3844
2970
√|Std. deviance resid.|
0.0
0.5
1.0
1.5
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
Predicted values
glm.nb(eggs ~ infected + weeknum + mouse + hummax + avtemp + (1 | idnum))


Residuals vs Leverage
1882
3844
1063
Std. Pearson resid.
5
4
3
2
1
0
−1
Cook's distance
0.000
0.005
0.010
0.015
Leverage
glm.nb(eggs ~ infected + weeknum + mouse + hummax + avtemp + (1 | idnum))


Number of Eggs Laid by Week and Infection Status
0
1
eggs
weeknum
0
5
10
15
20
0
10
20
30


residuals(nbmod13)
2
1
0
−1
−2
0
500
1000
1500
2000
2500
Index


Compile$eggs
0
5
10
15
20
Compile$weeknum
0
5
10
15
20
25
30
35


CompileRD$weeknum
0
5
10
15
20
25
30
35
0
500
1000
1500
2000
2500
Index