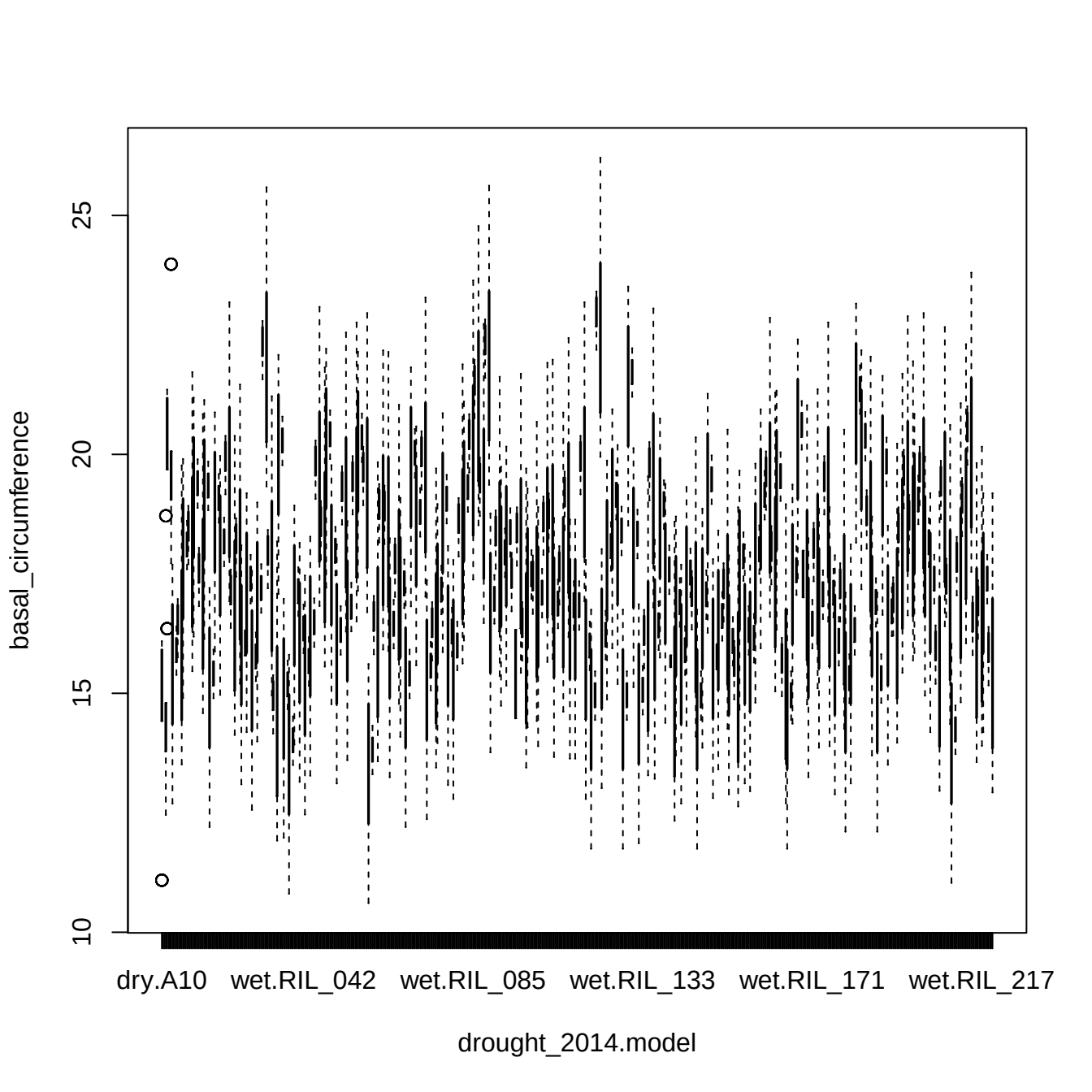
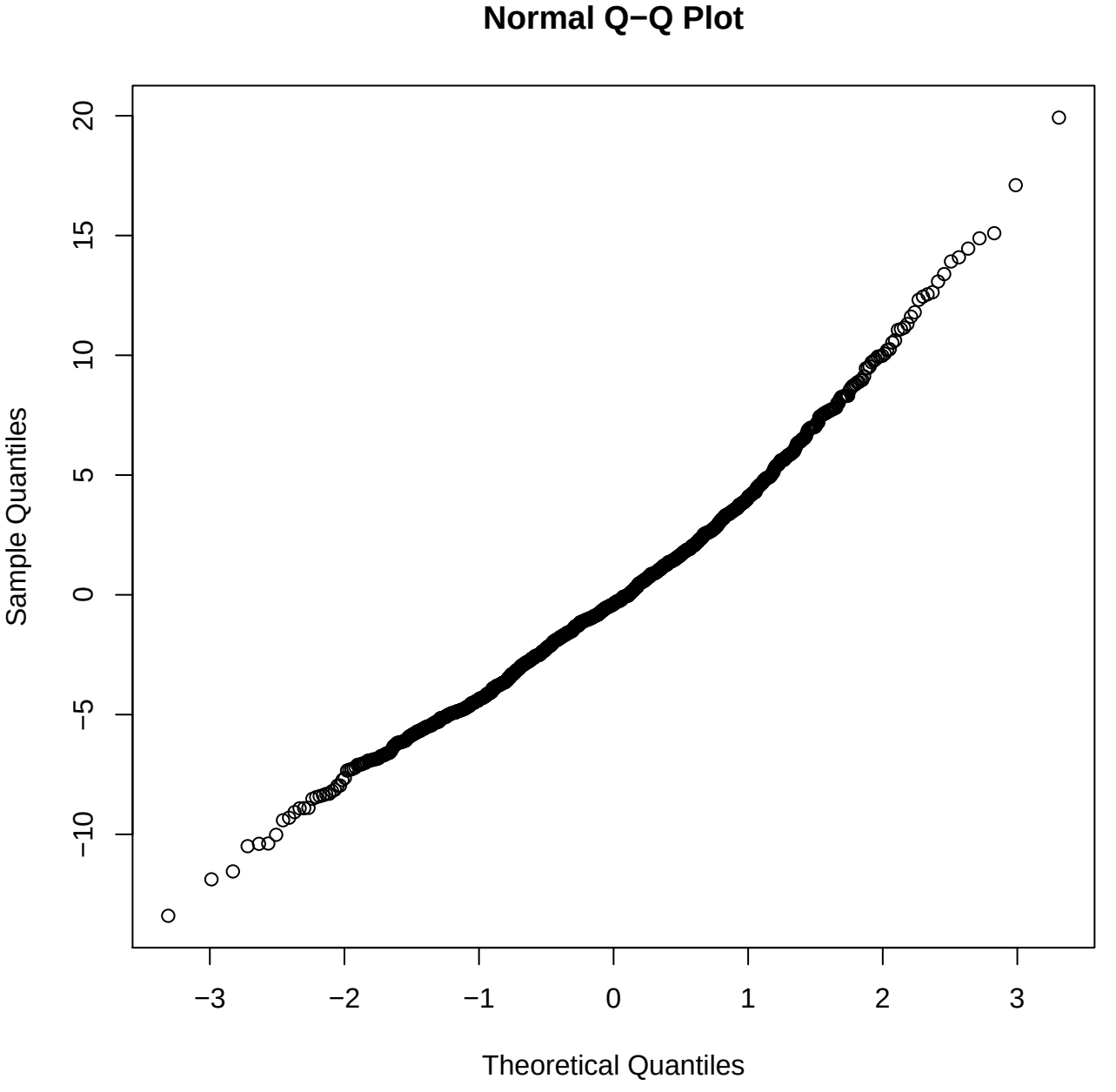
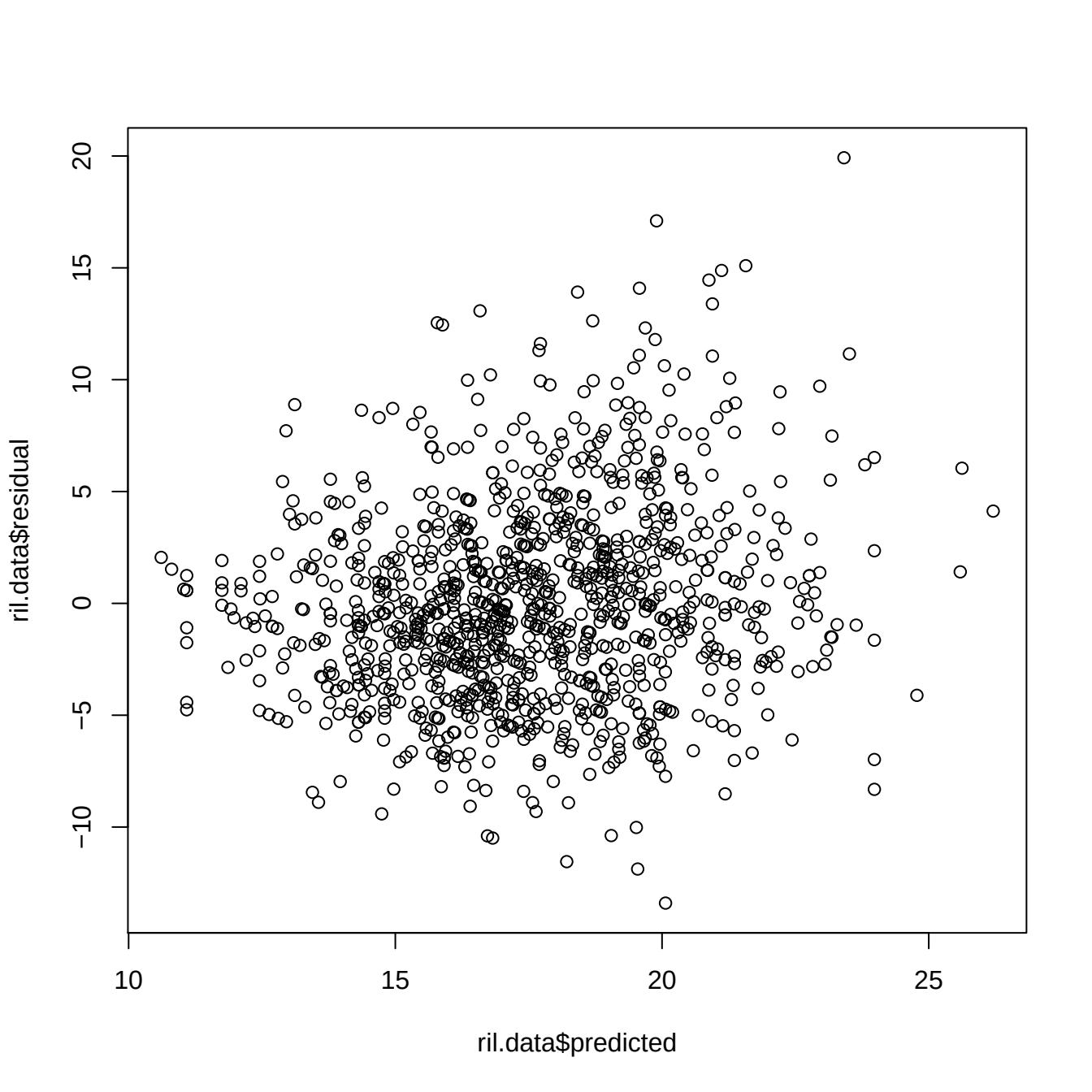
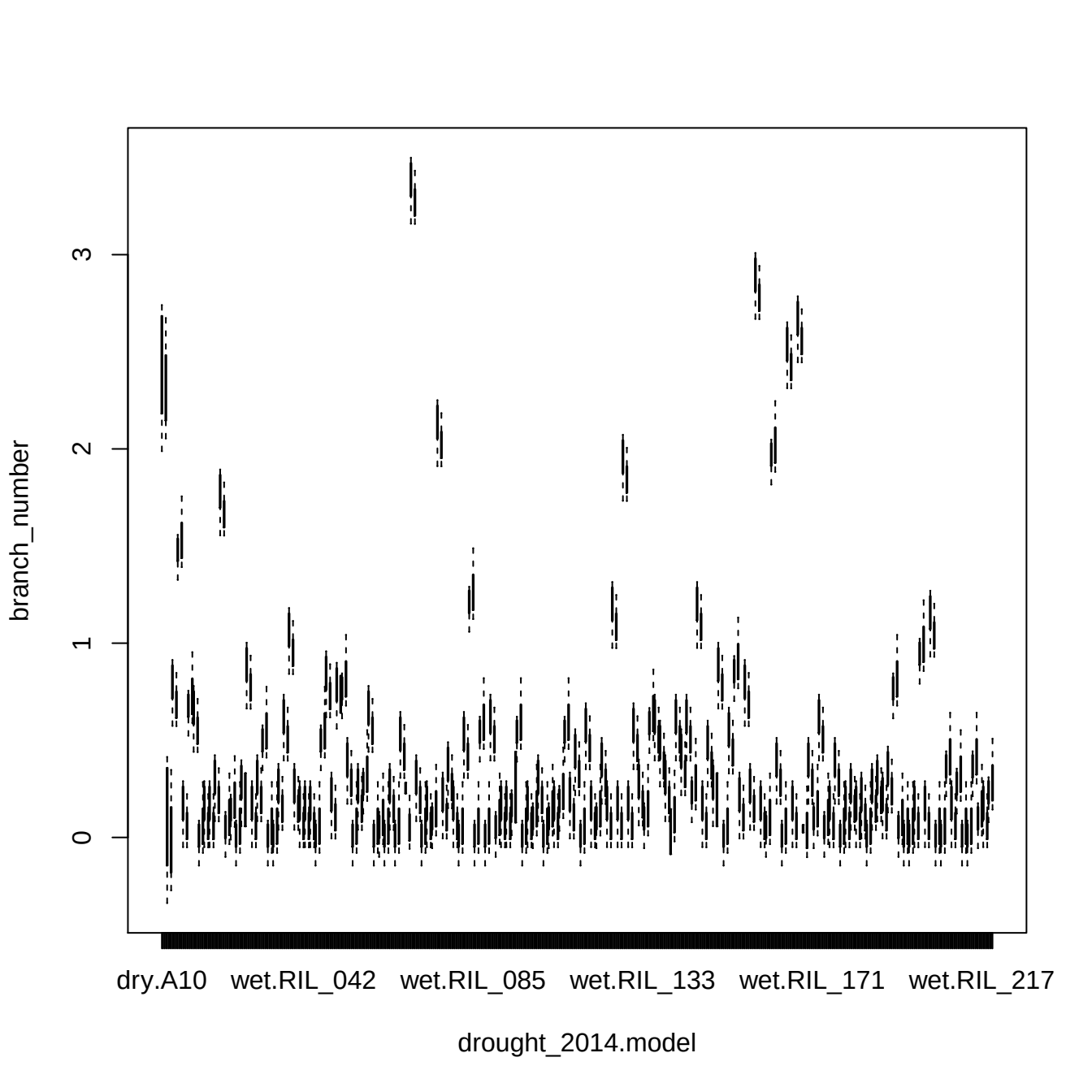
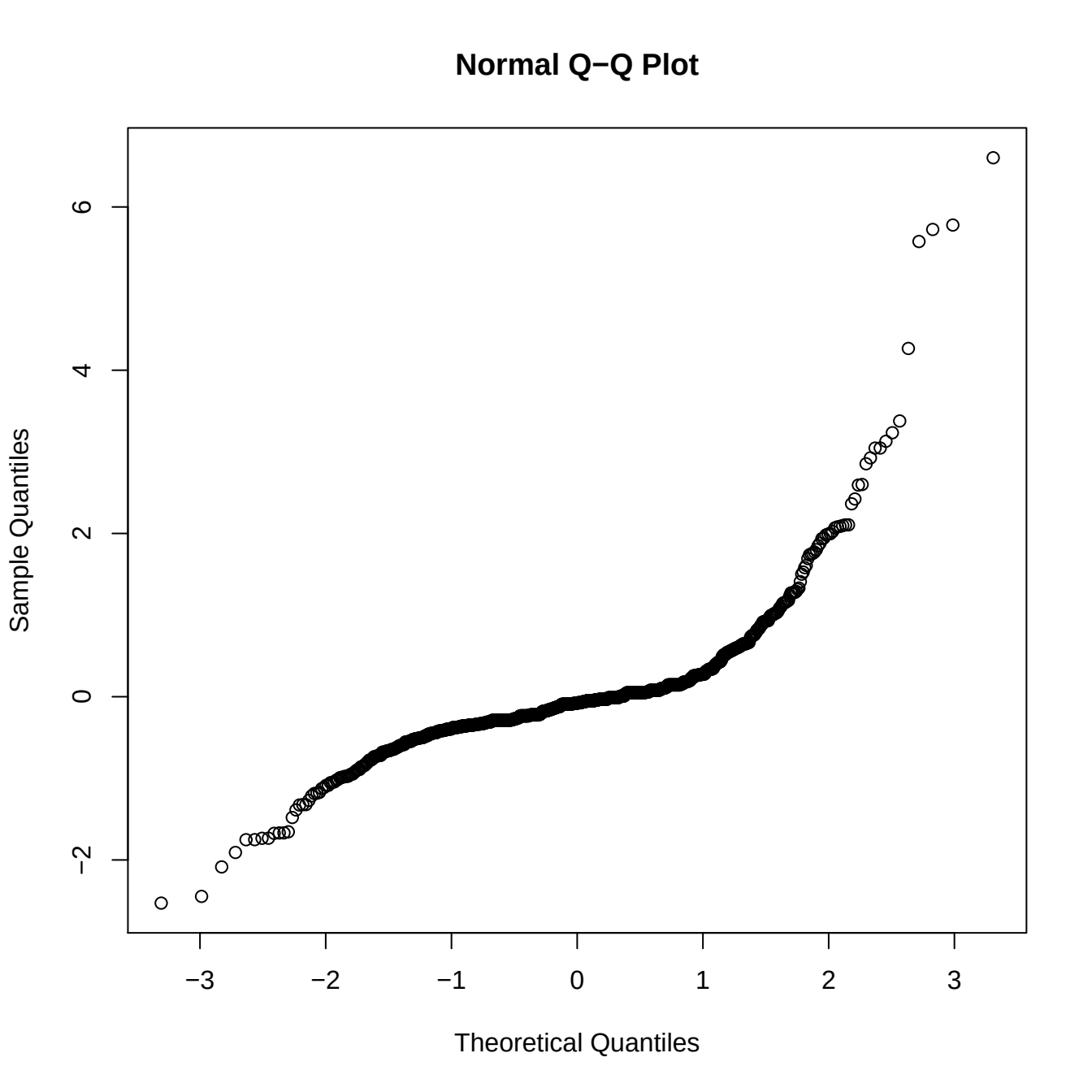
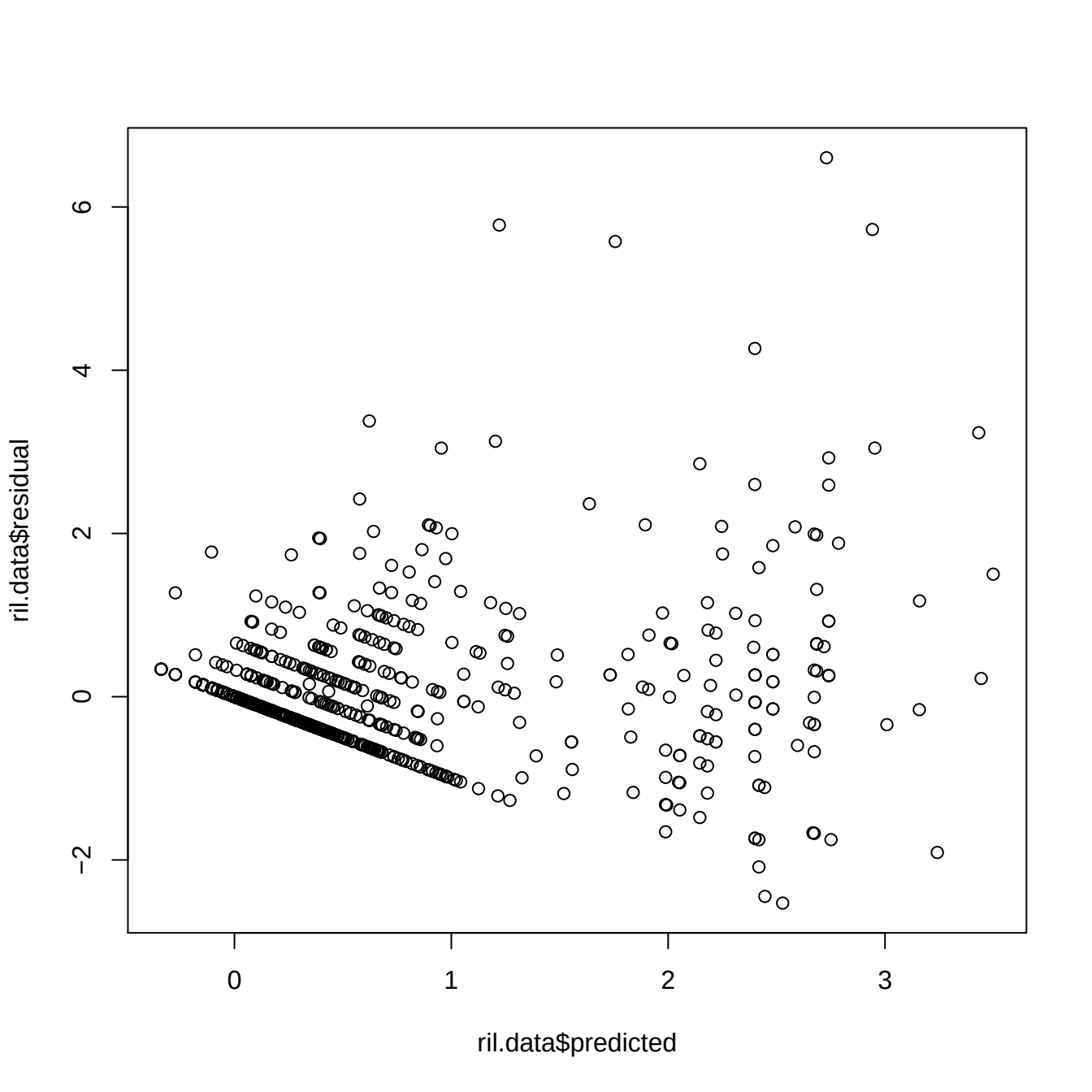

basal_circumference
10
15
20
25
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

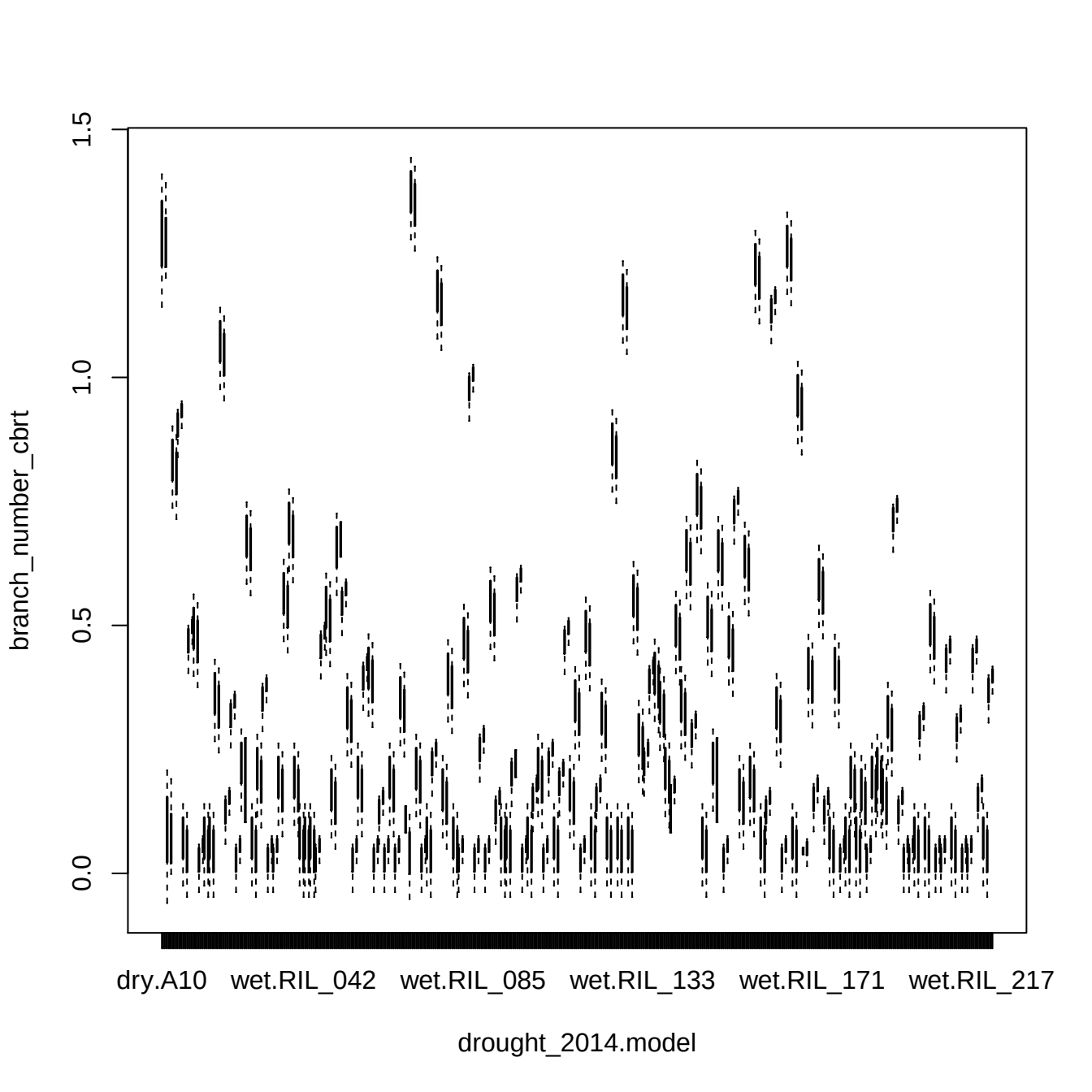

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
20
15
10
5
0
−5
−10
−3
−2
−1
0
1
2
3

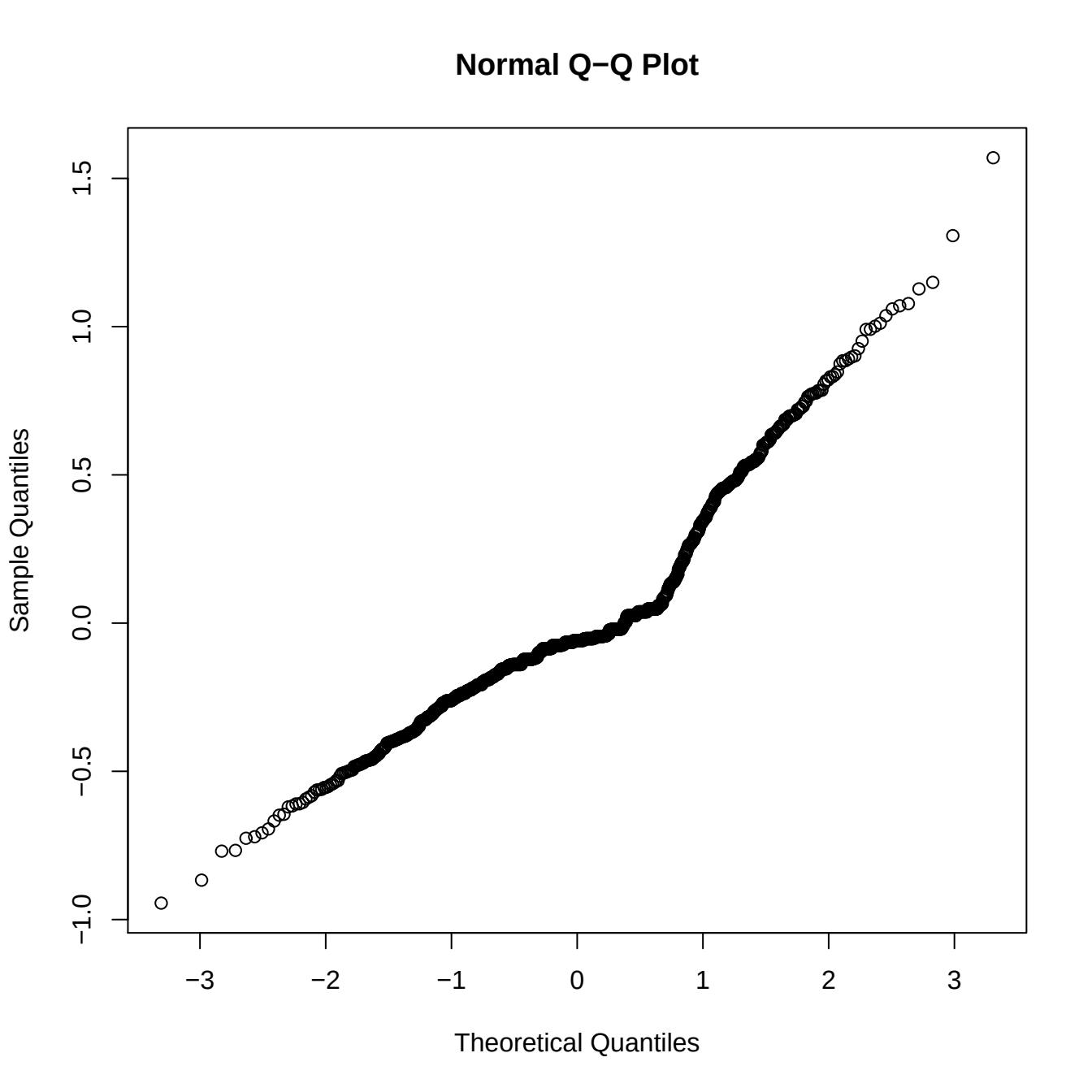

ril.data$residual
20
15
10
5
0
−5
−10
10
15
20
25
ril.data$predicted

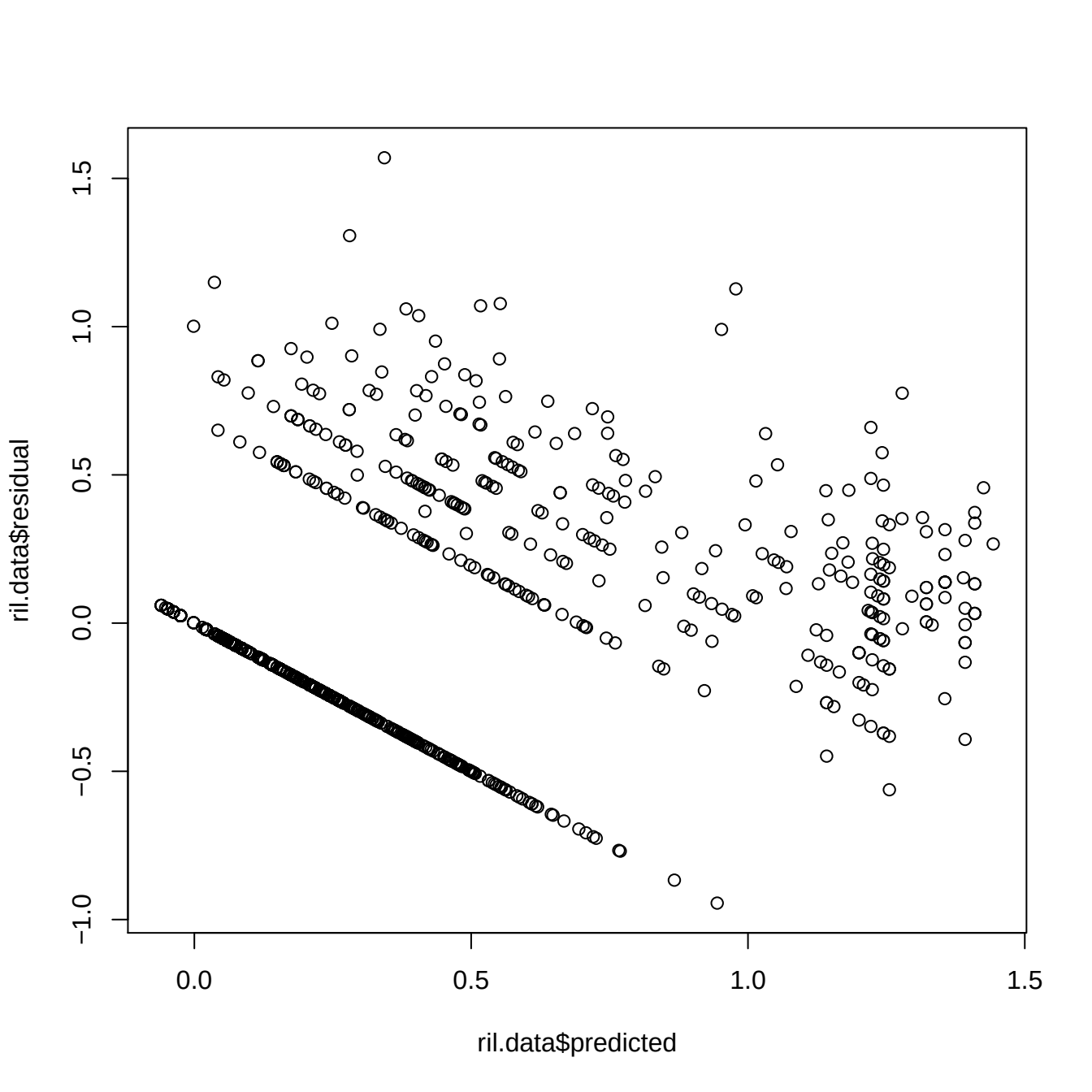

branch_number
0
1
2
3
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

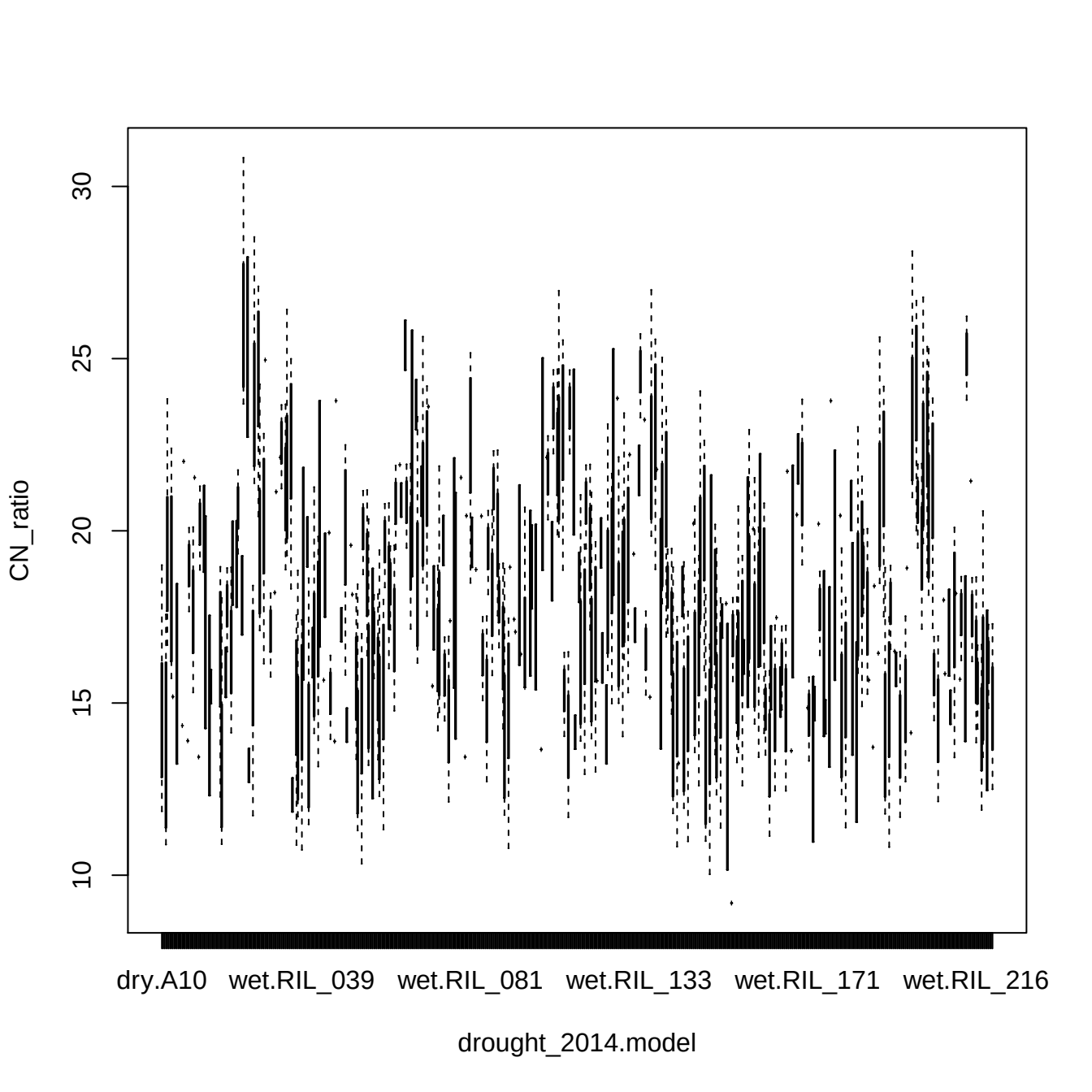

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−2
0
2
4
6
−3
−2
−1
0
1
2
3

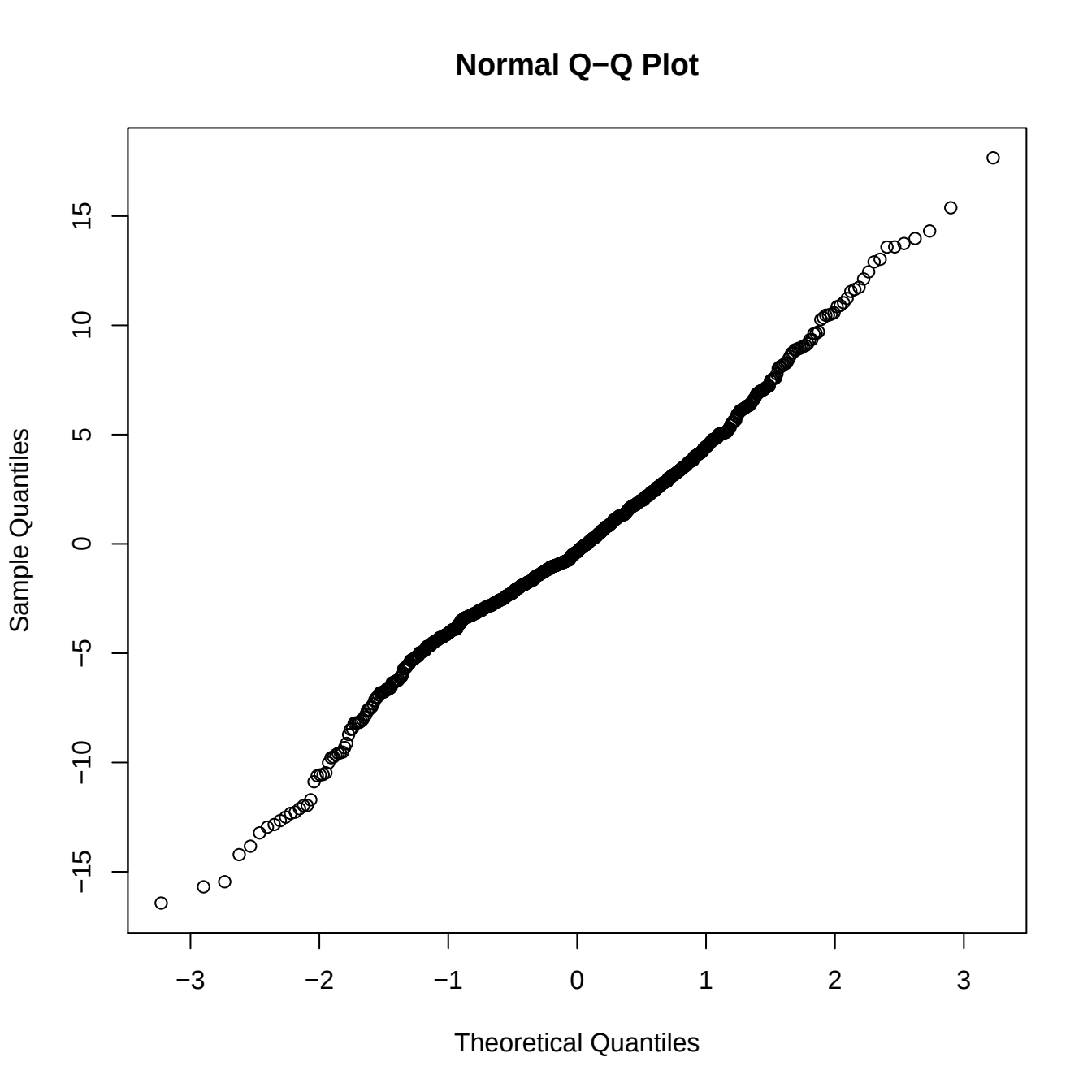

ril.data$residual
6
4
2
0
−2
0
1
2
3
ril.data$predicted

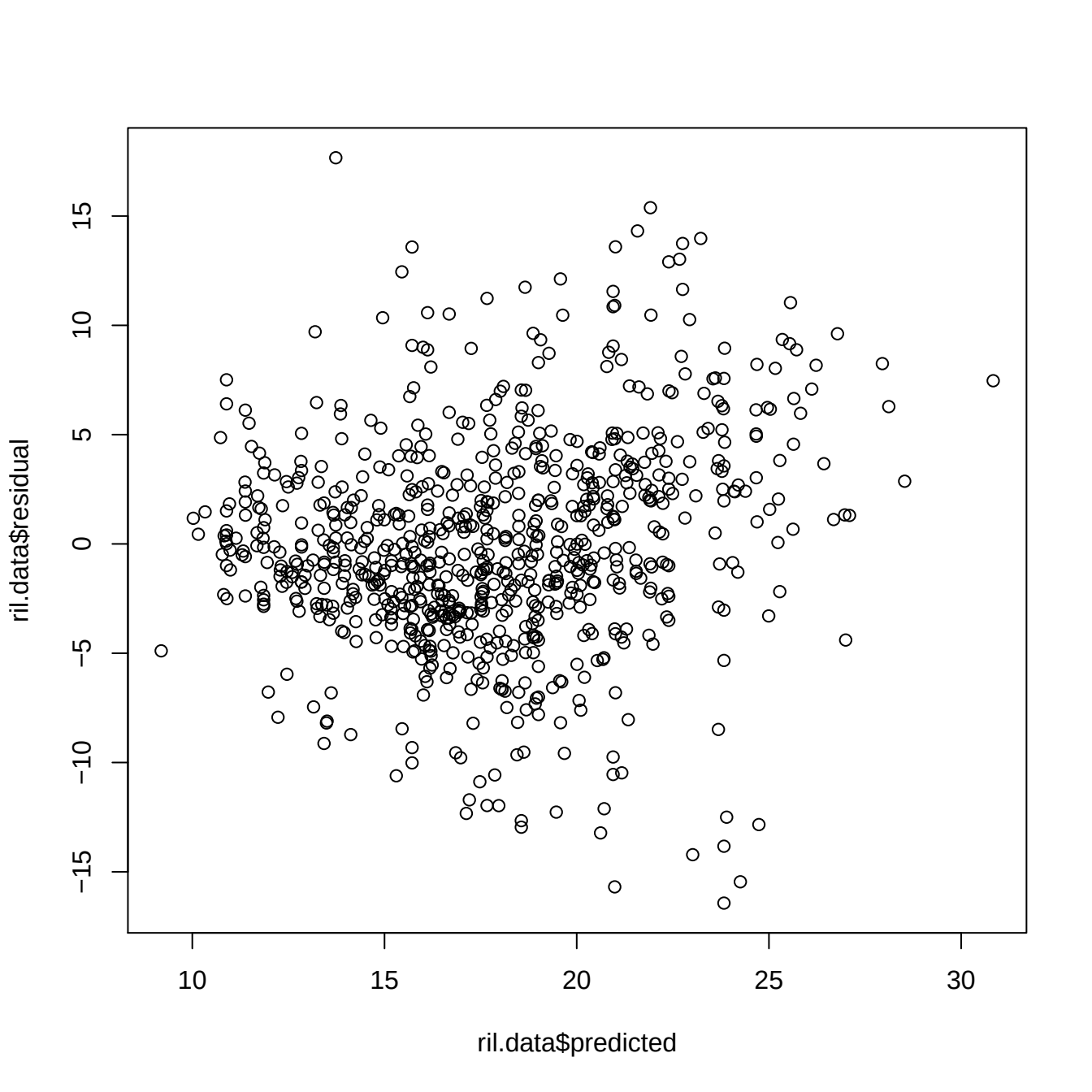

branch_number_cbrt
0.0
0.5
1.0
1.5
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

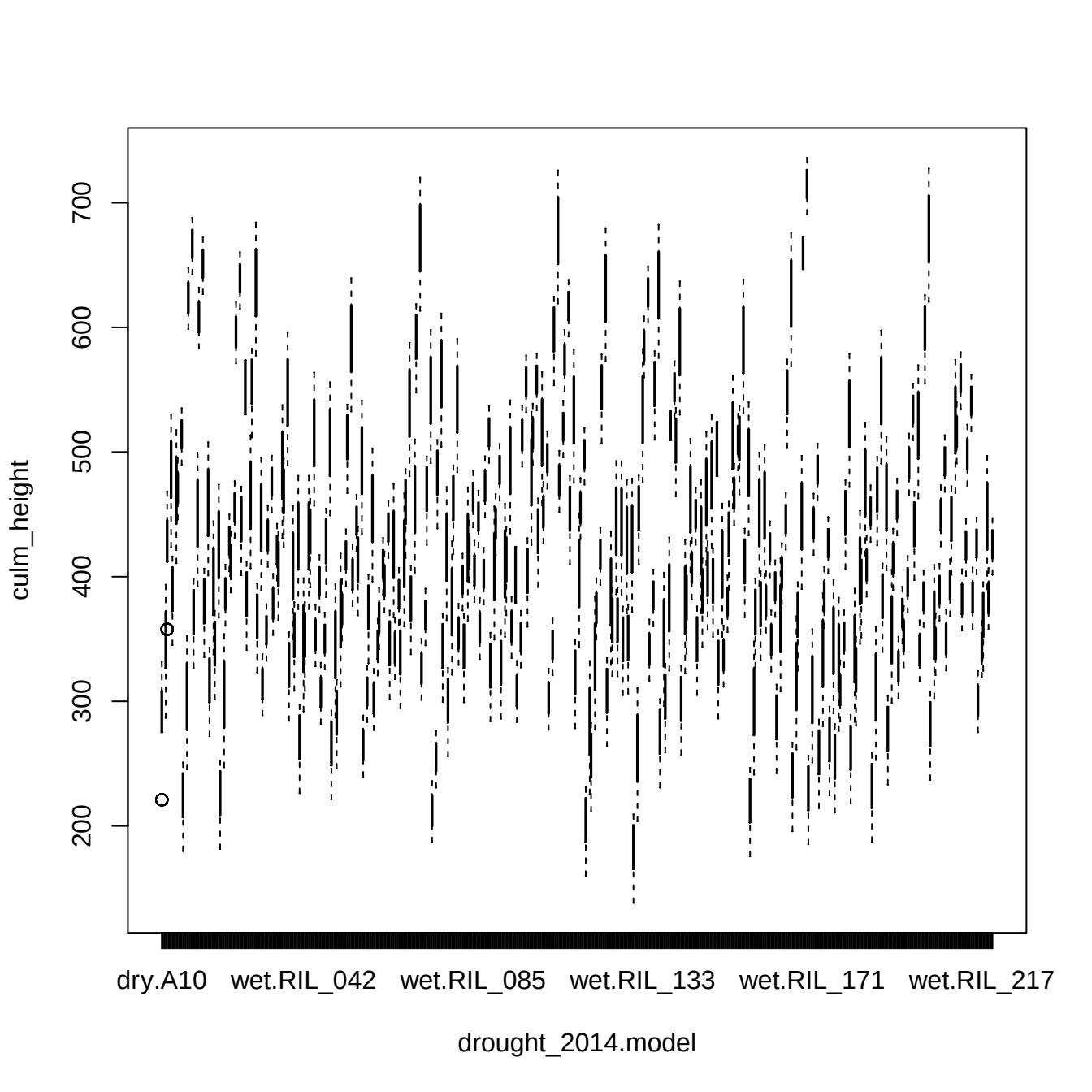

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−1.0
−0.5
0.0
0.5
1.0
1.5
−3
−2
−1
0
1
2
3

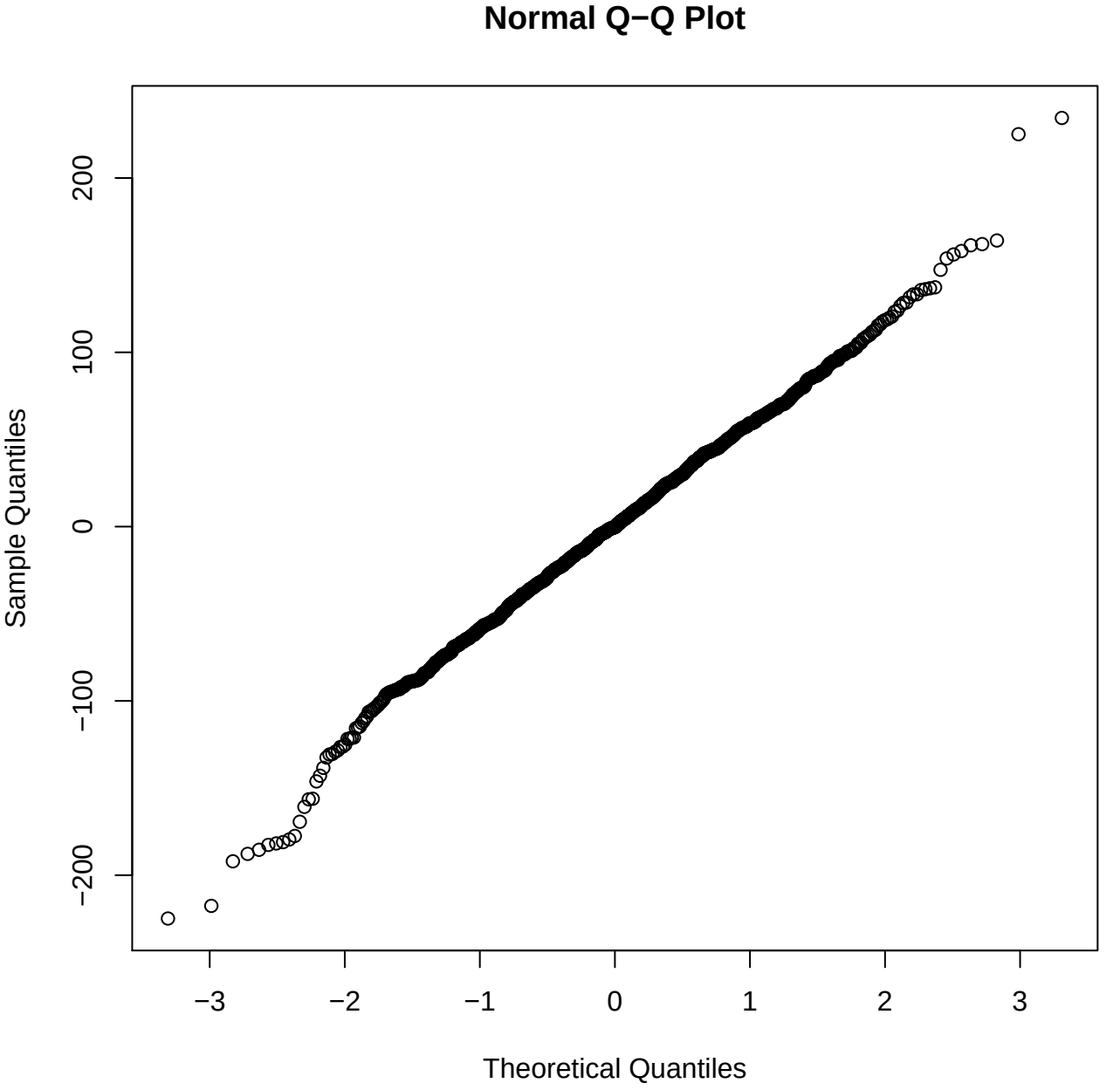

ril.data$residual
ril.data$predicted
1.5
1.0
0.5
0.0
−0.5
−1.0
0.0
0.5
1.0
1.5

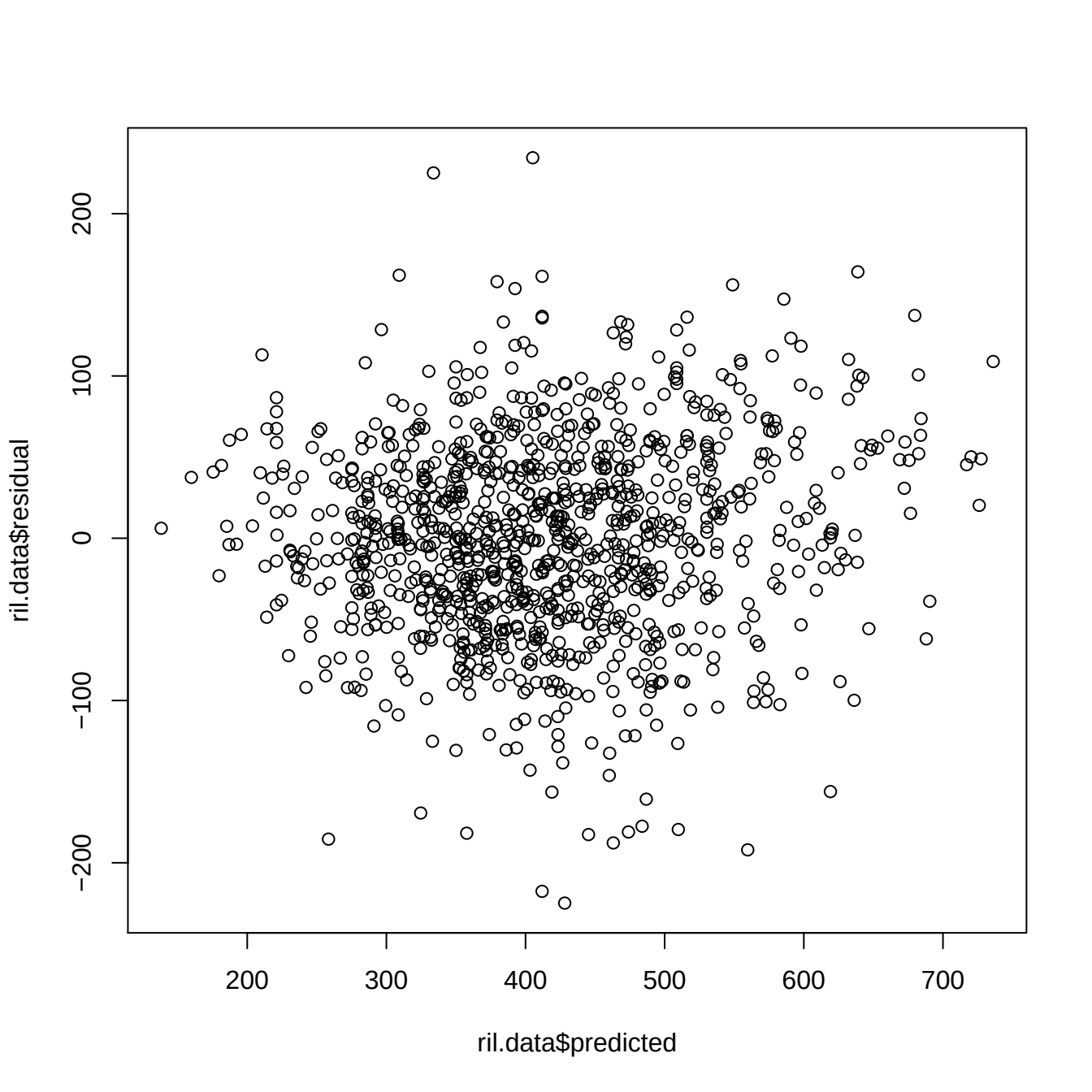

CN_ratio
10
15
20
25
30
dry.A10
wet.RIL_039
wet.RIL_081
wet.RIL_133
wet.RIL_171
wet.RIL_216
drought_2014.model

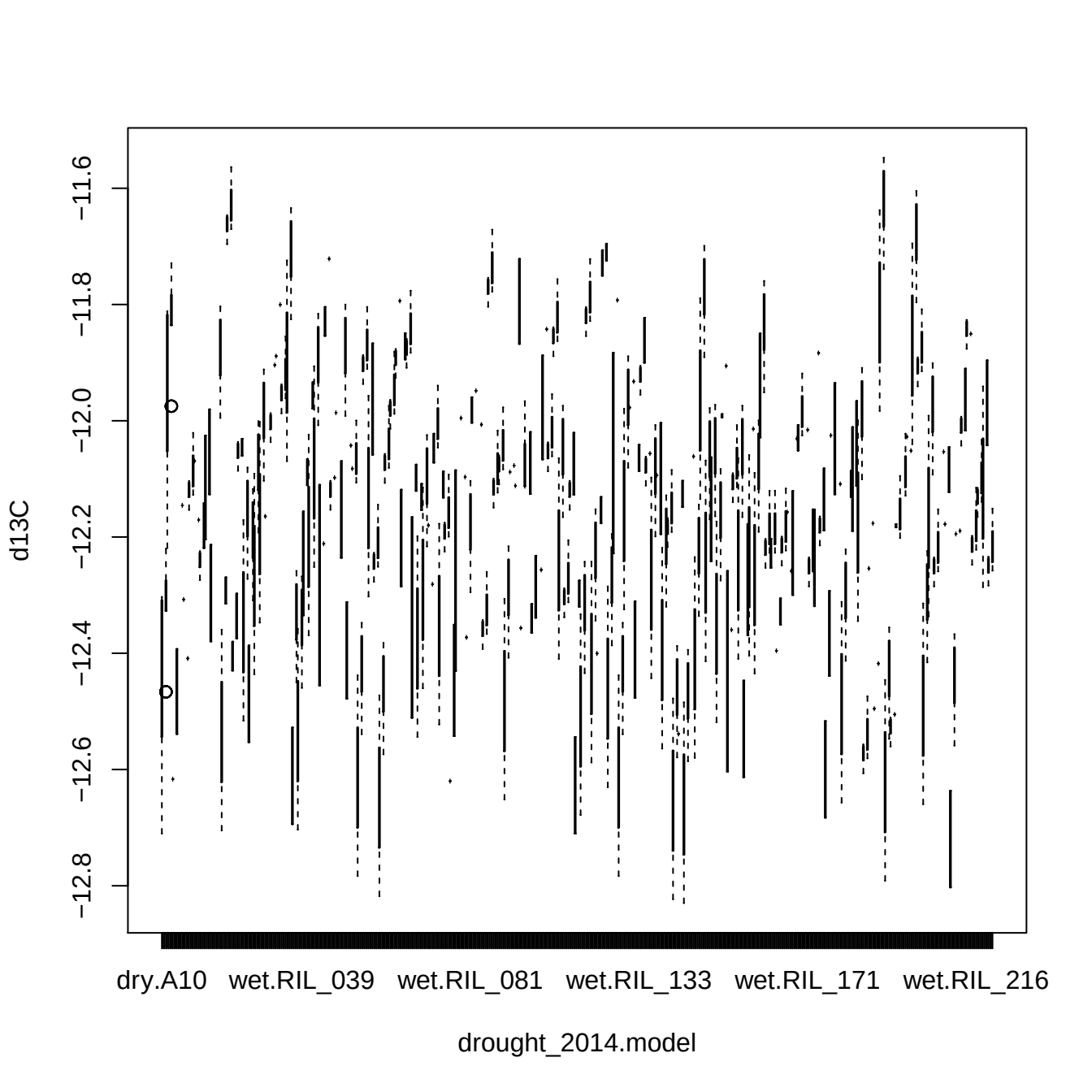

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
15
10
5
0
−5
−10
−15
−3
−2
−1
0
1
2
3

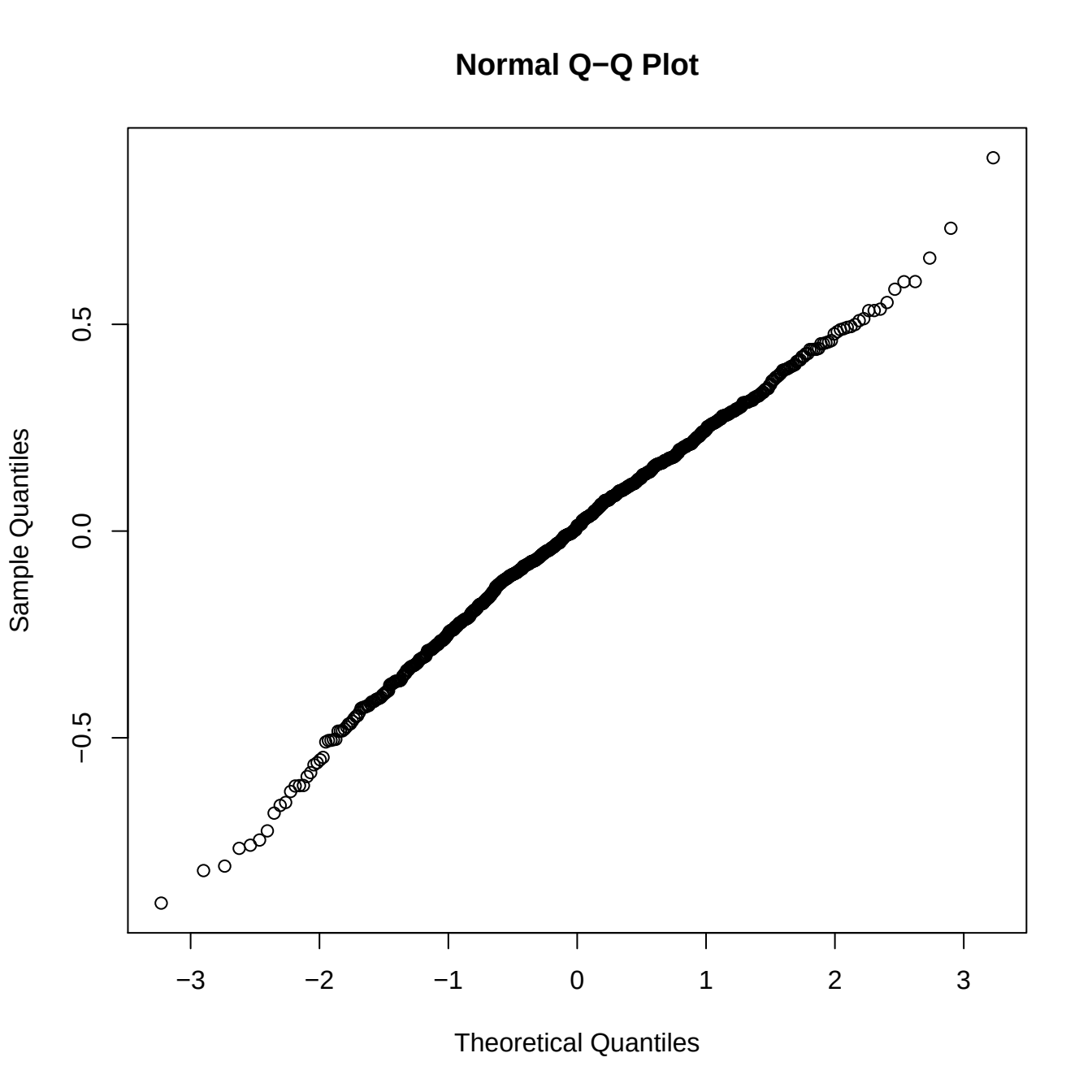

ril.data$residual
15
10
5
0
−5
−10
−15
10
15
20
25
30
ril.data$predicted

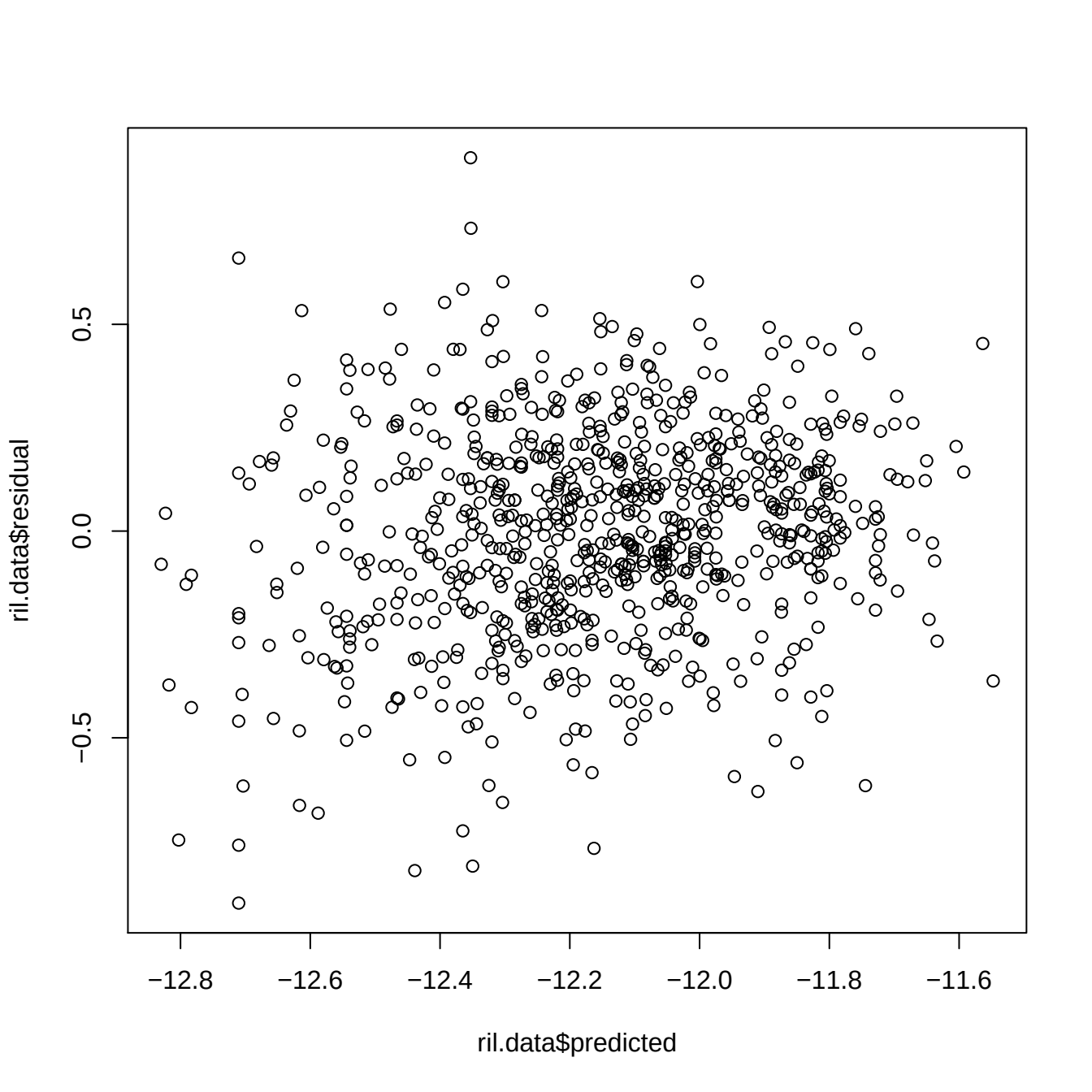

culm_height
200
300
400
500
600
700
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

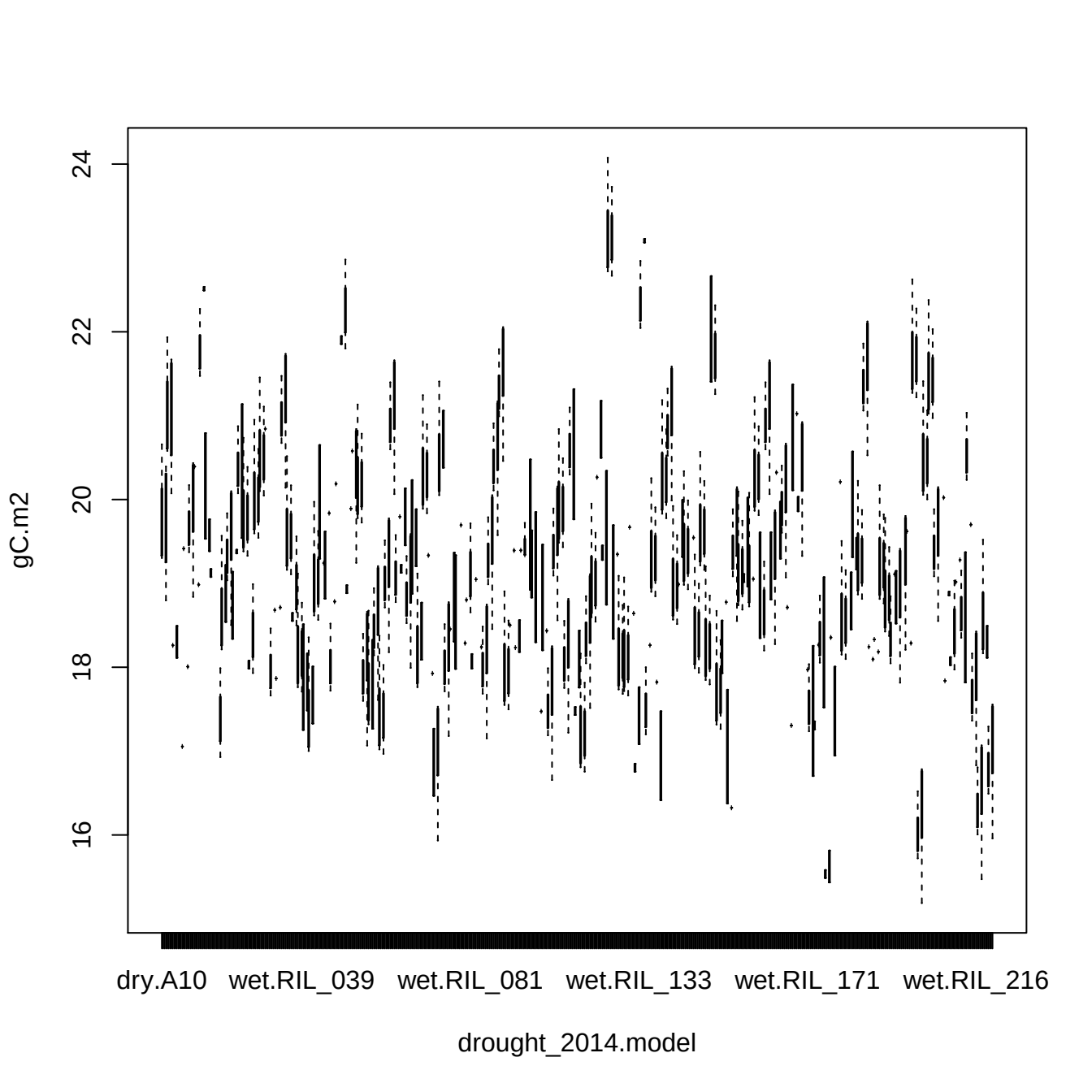

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
200
100
0
−100
−200
−3
−2
−1
0
1
2
3

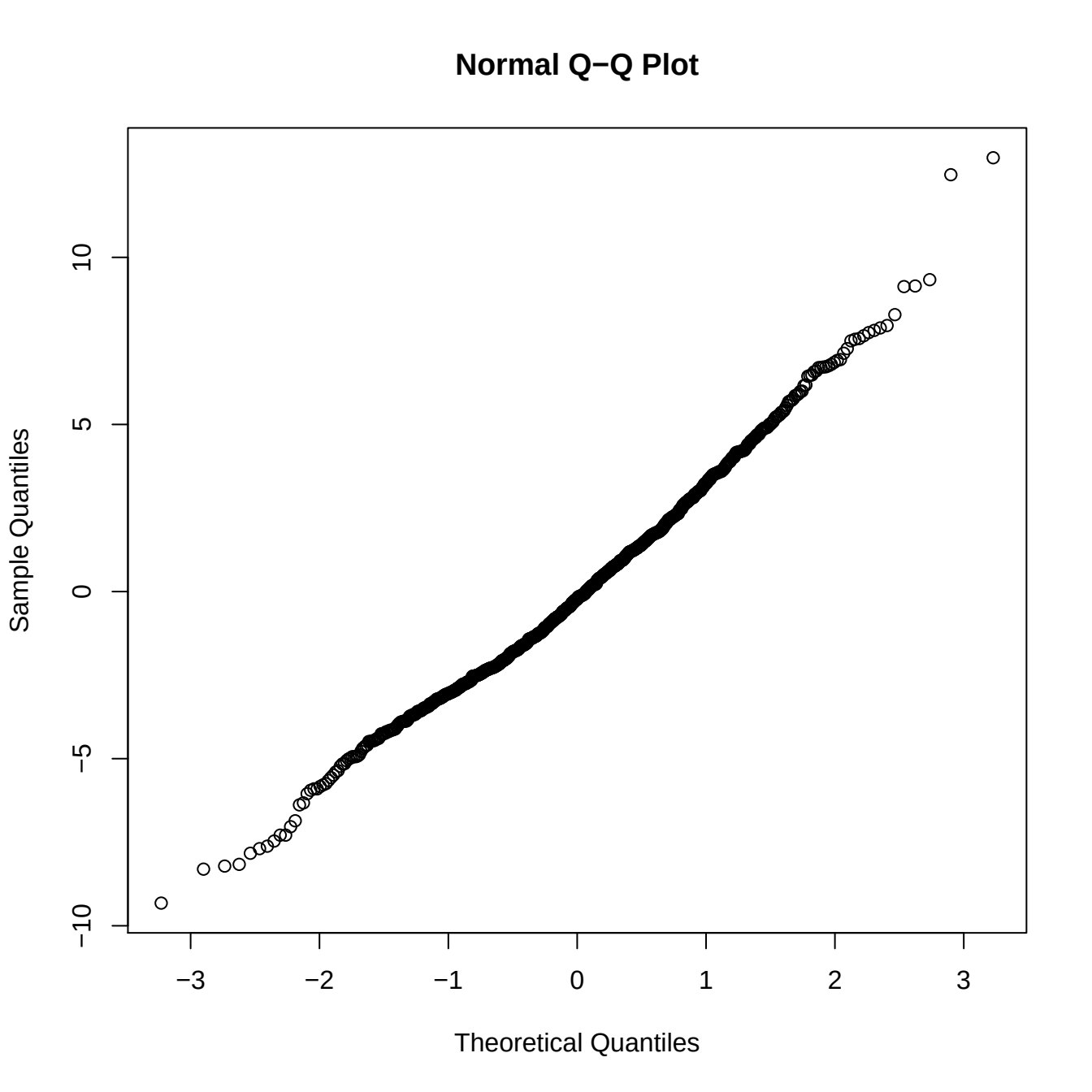

ril.data$residual
200
100
0
−100
−200
200
300
400
500
600
700
ril.data$predicted

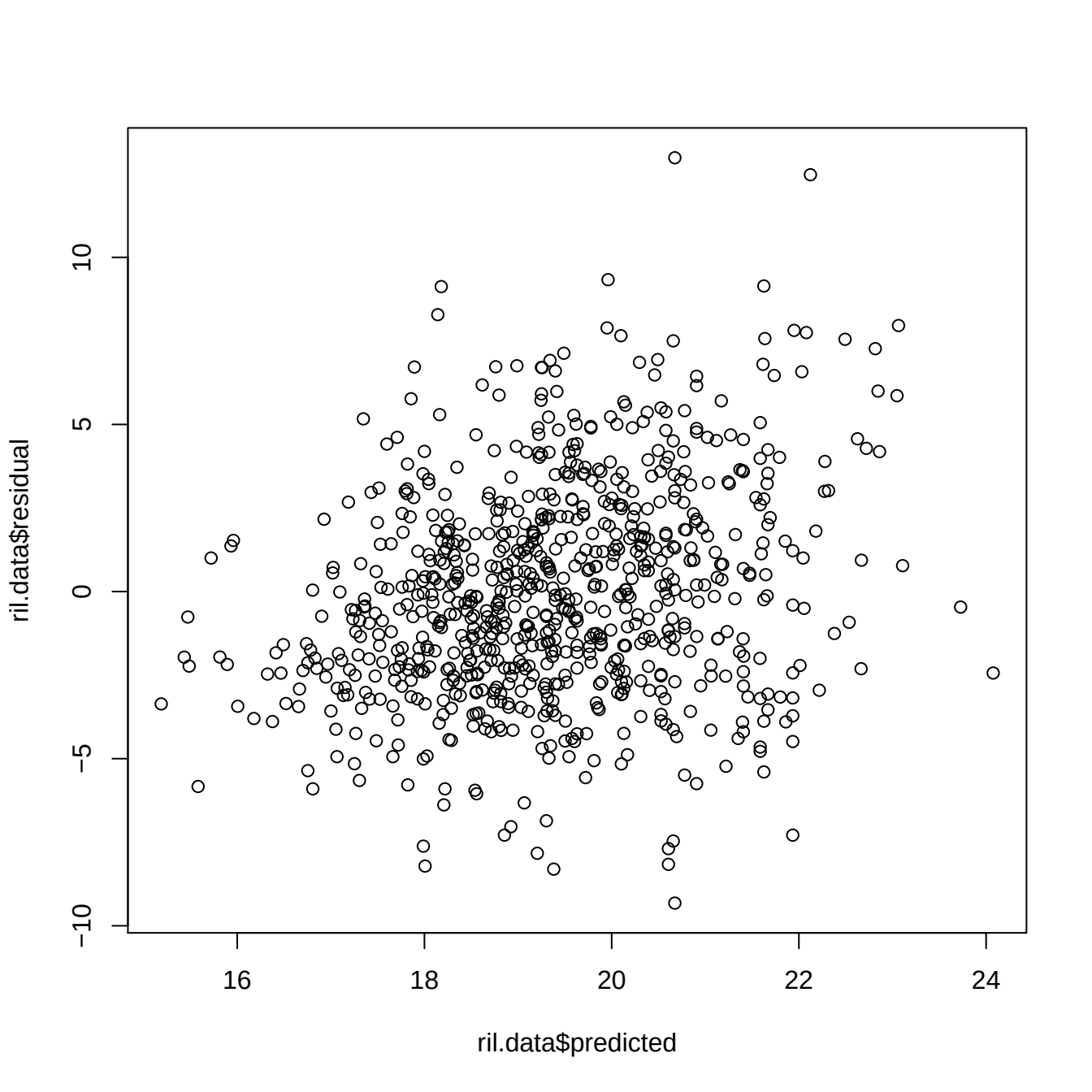

d13C
−11.6
−11.8
−12.0
−12.2
−12.4
−12.6
−12.8
dry.A10
wet.RIL_039
wet.RIL_081
wet.RIL_133
wet.RIL_171
wet.RIL_216
drought_2014.model

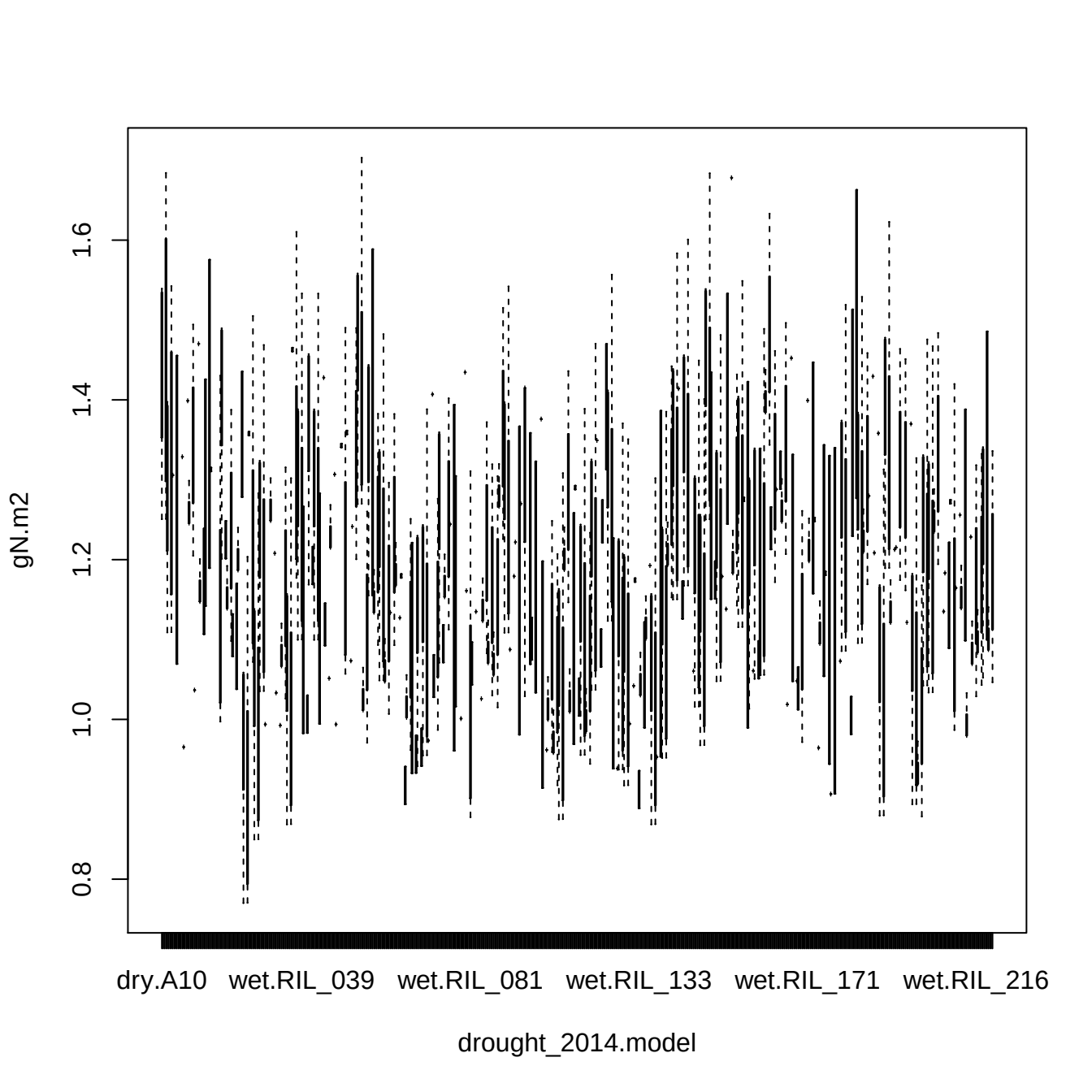

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.5
0.0
−0.5
−3
−2
−1
0
1
2
3

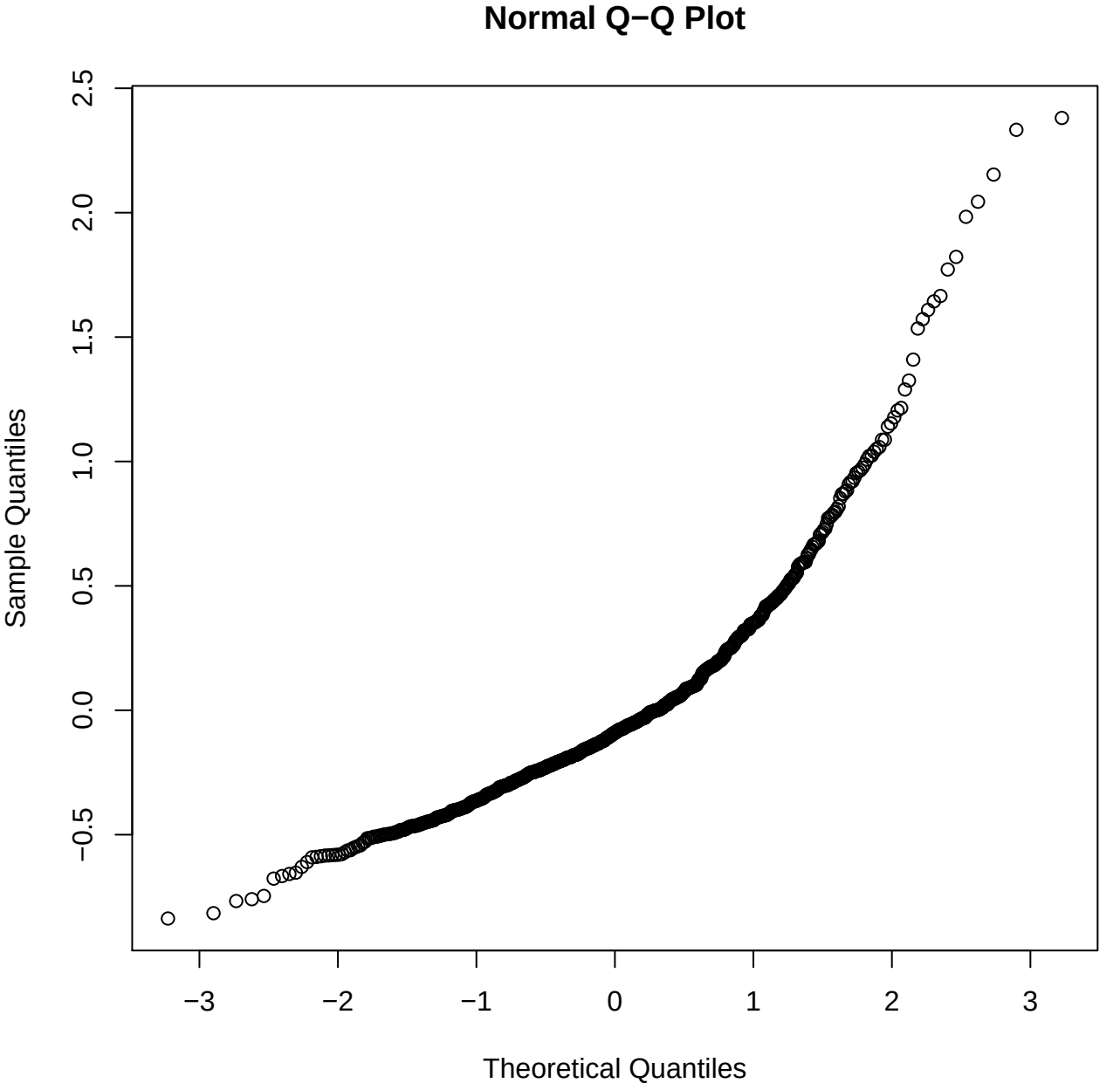

ril.data$residual
0.5
0.0
−0.5
−12.8
−12.6
−12.4
−12.2
−12.0
−11.8
−11.6
ril.data$predicted

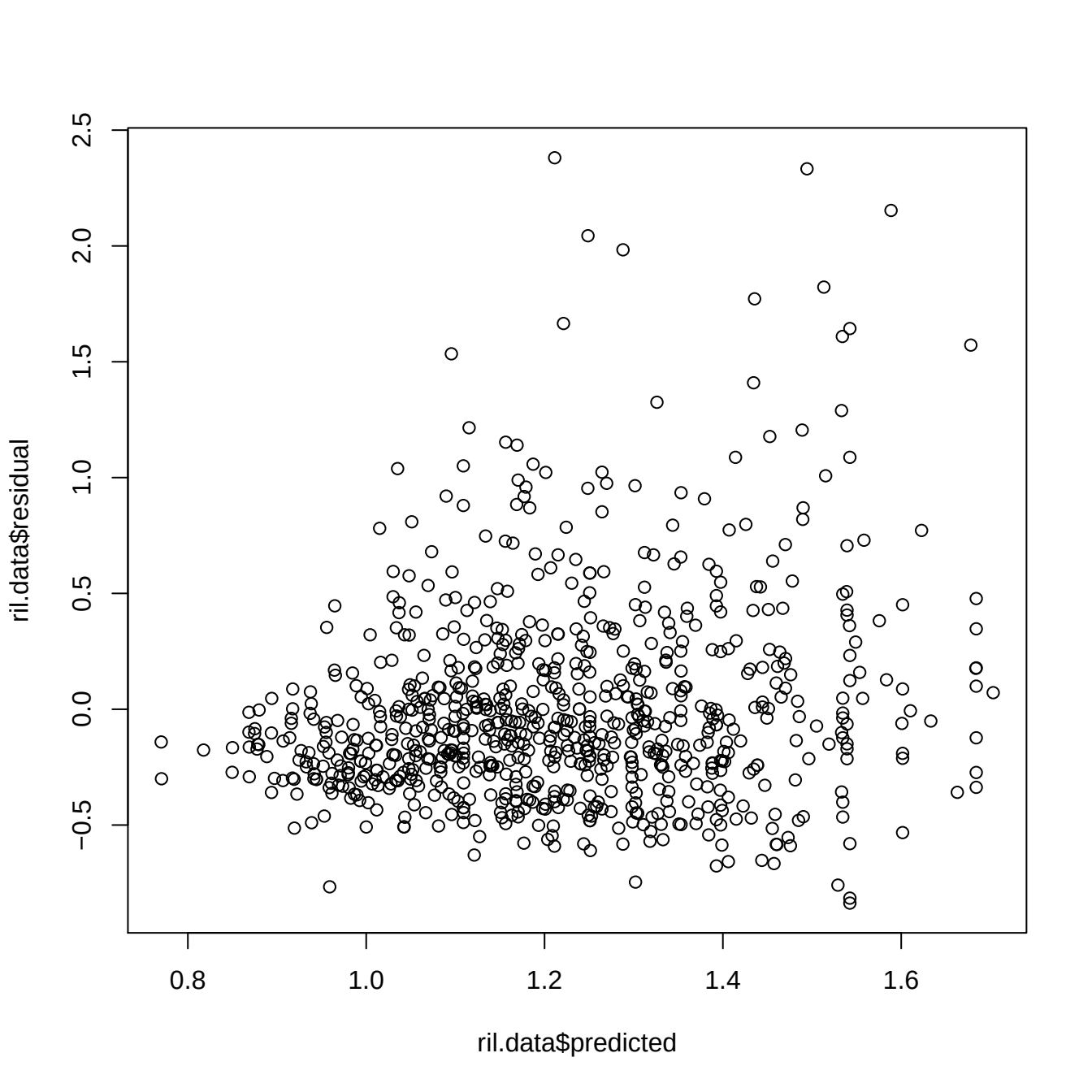

gC.m2
16
18
20
22
24
dry.A10
wet.RIL_039
wet.RIL_081
wet.RIL_133
wet.RIL_171
wet.RIL_216
drought_2014.model

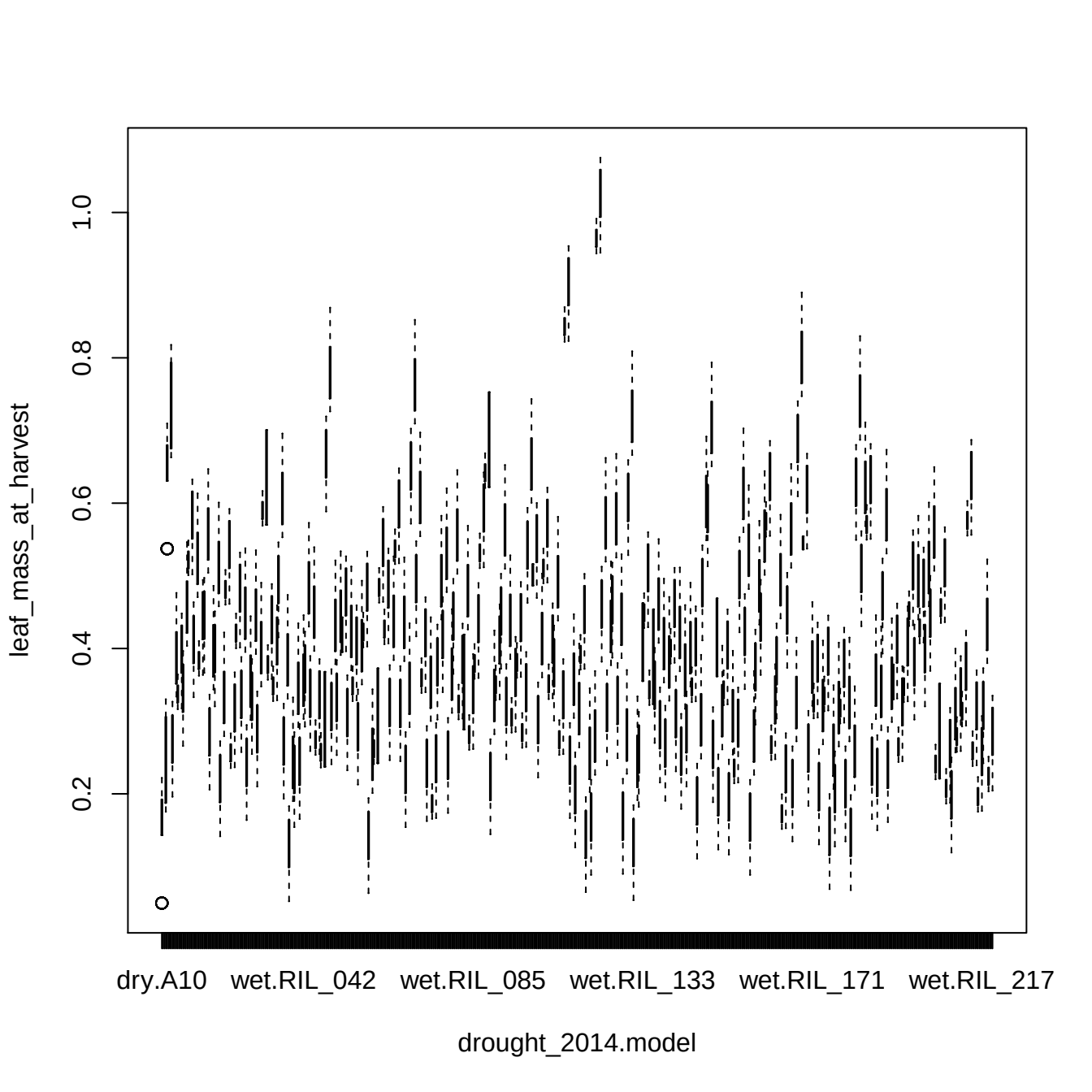

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
−3
−2
−1
0
1
2
3

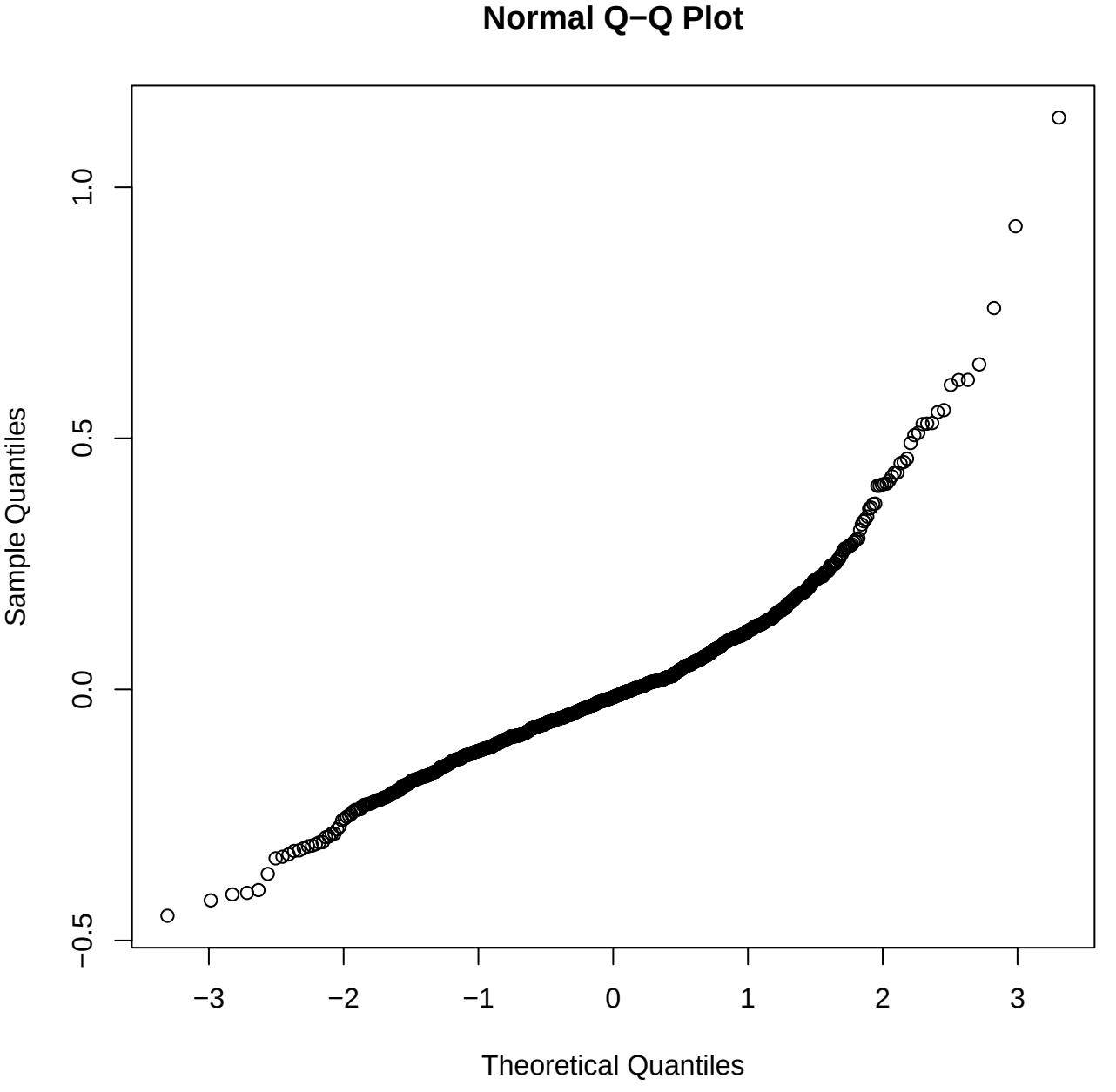

ril.data$residual
10
5
0
−5
−10
16
18
20
22
24
ril.data$predicted

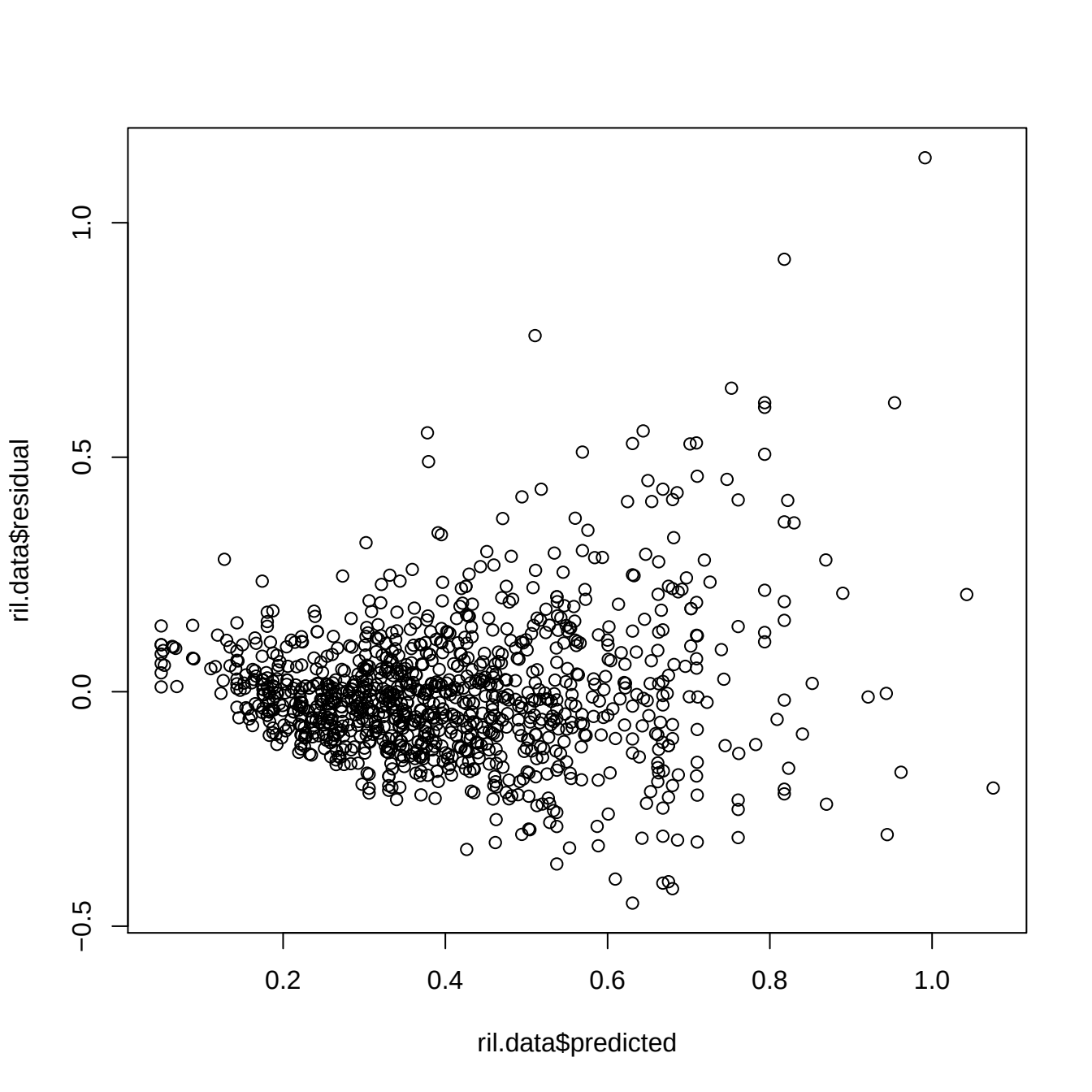

gN.m2
0.8
1.0
1.2
1.4
1.6
dry.A10
wet.RIL_039
wet.RIL_081
wet.RIL_133
wet.RIL_171
wet.RIL_216
drought_2014.model

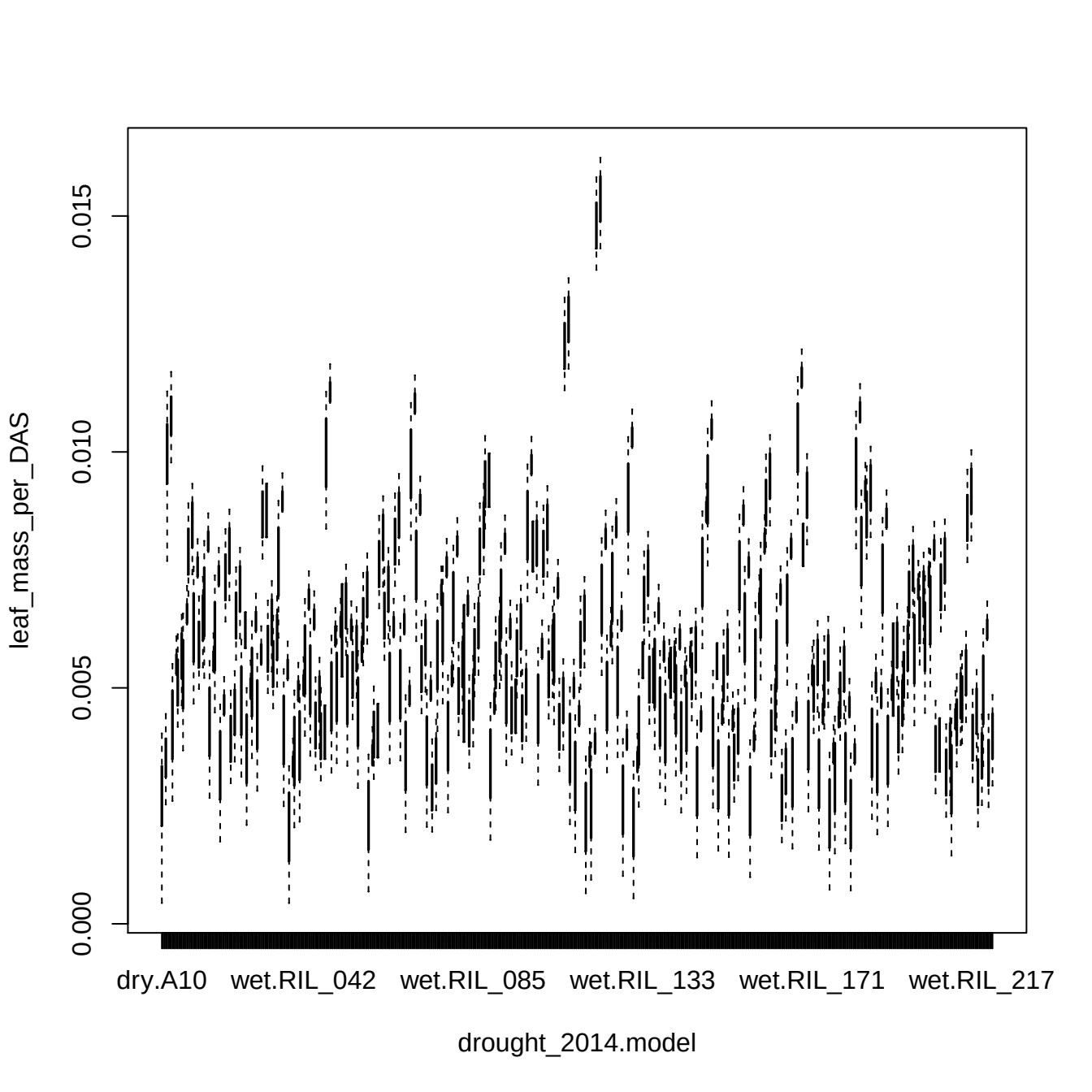

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−3
−2
−1
0
1
2
3

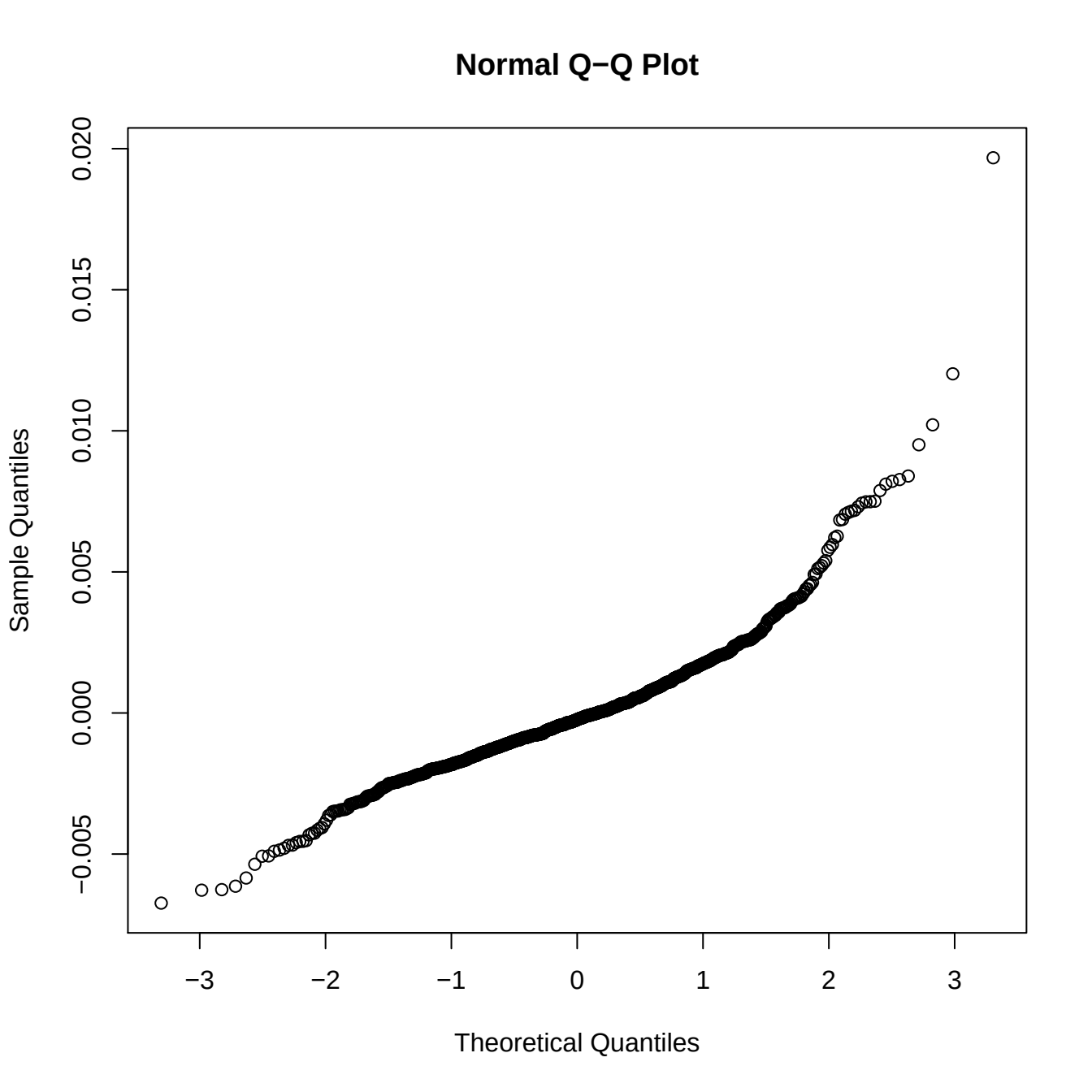

ril.data$residual
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
0.8
1.0
1.2
1.4
1.6
ril.data$predicted

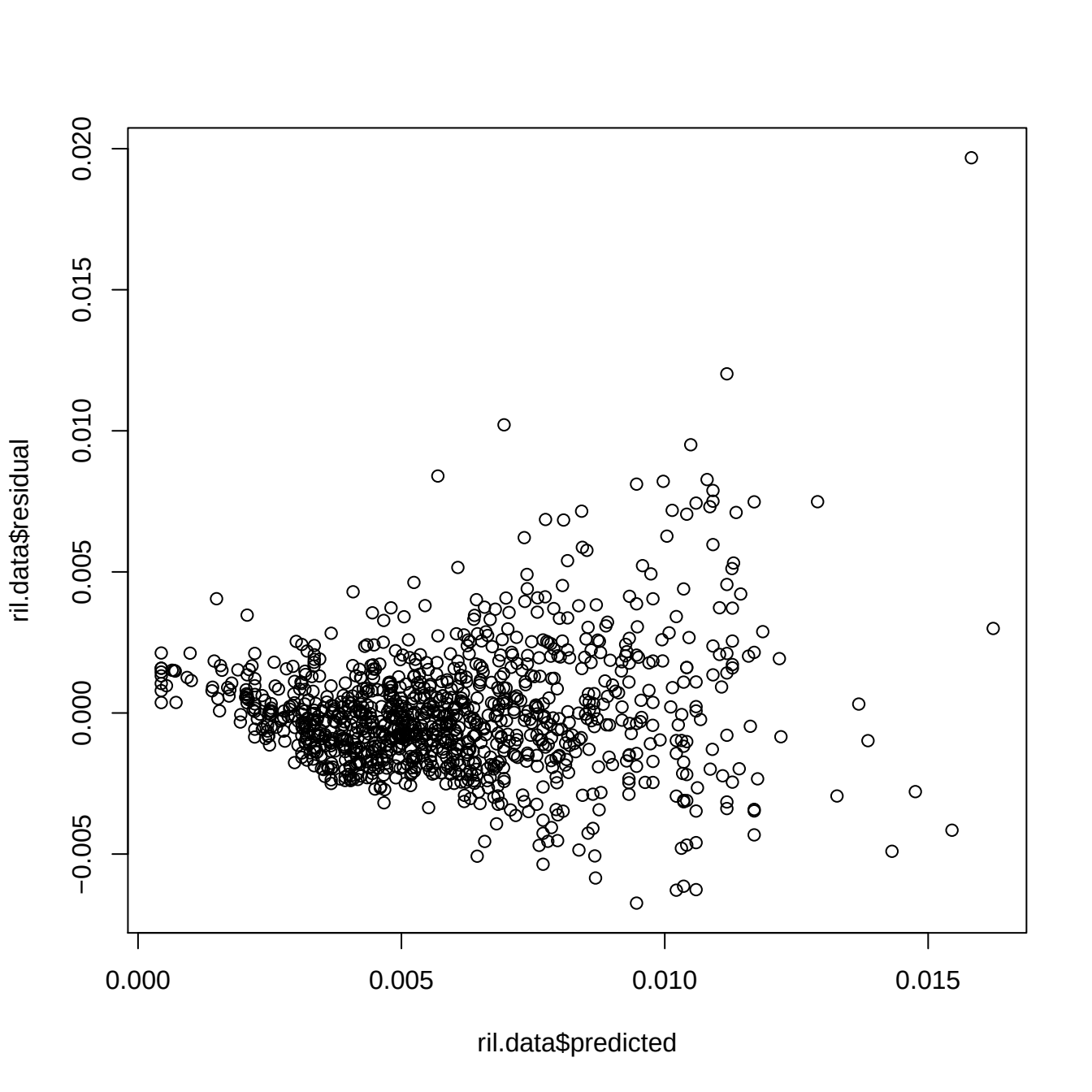

leaf_mass_at_harvest
0.2
0.4
0.6
0.8
1.0
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

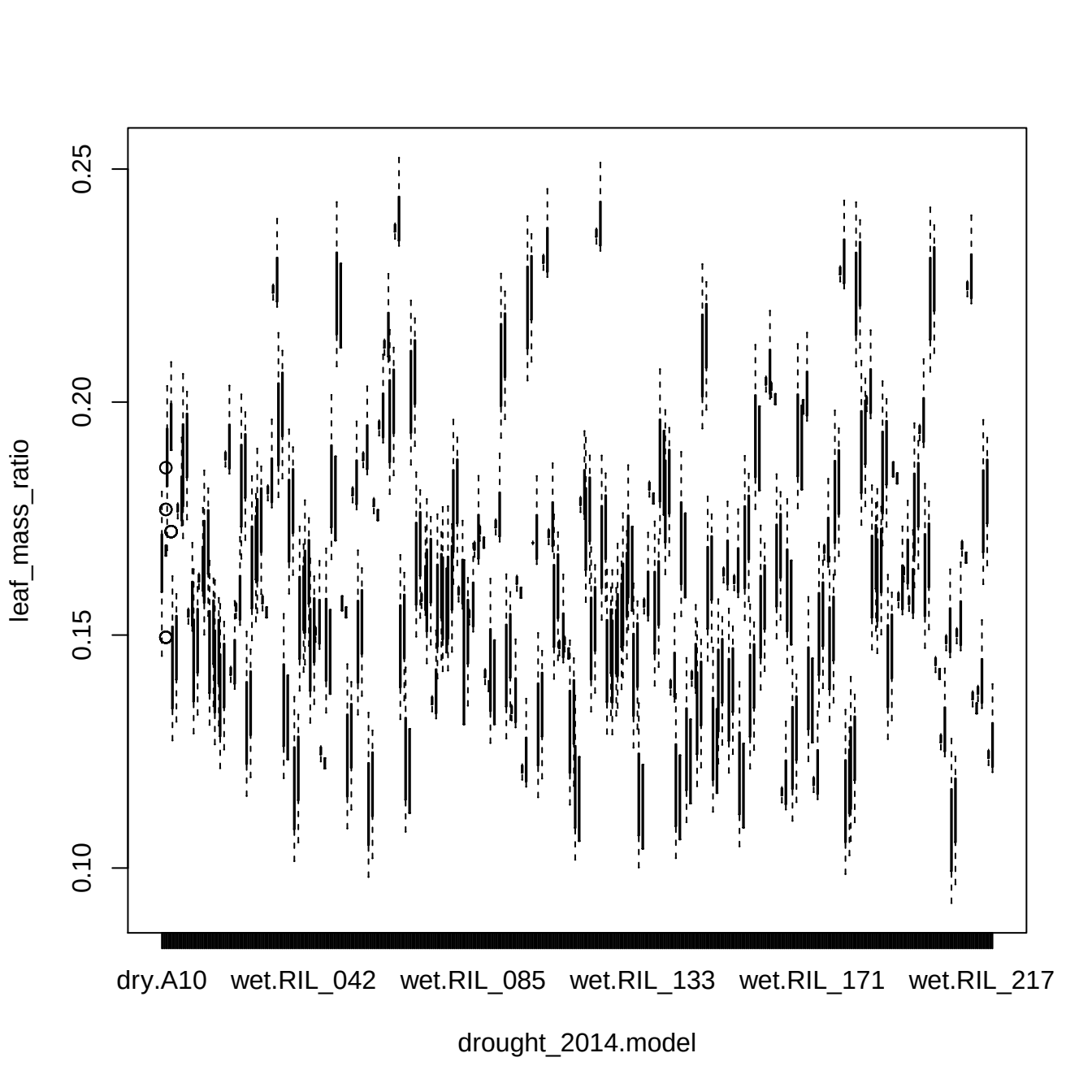

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−0.5
0.0
0.5
1.0
−3
−2
−1
0
1
2
3

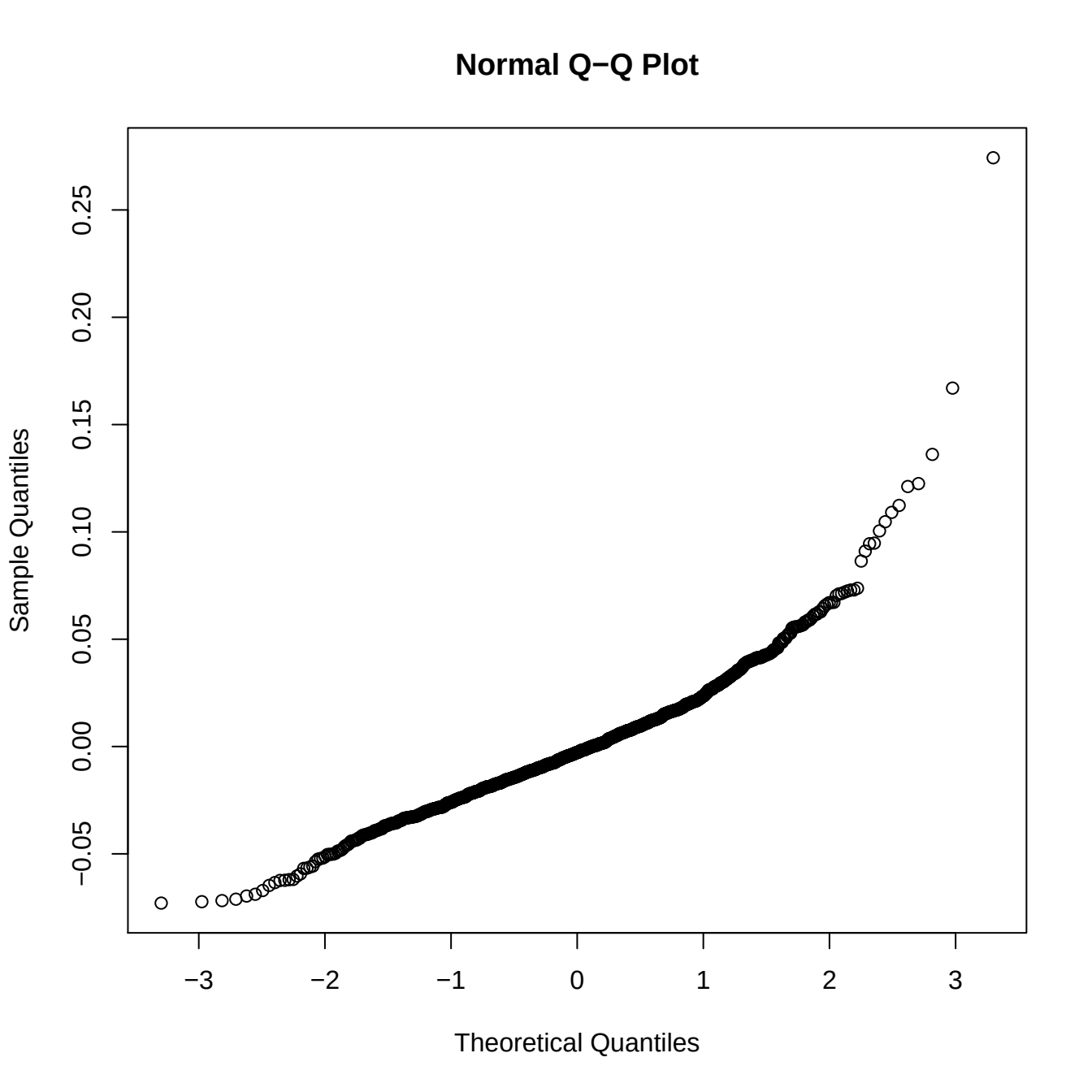

ril.data$residual
1.0
0.5
0.0
−0.5
0.2
0.4
0.6
0.8
1.0
ril.data$predicted

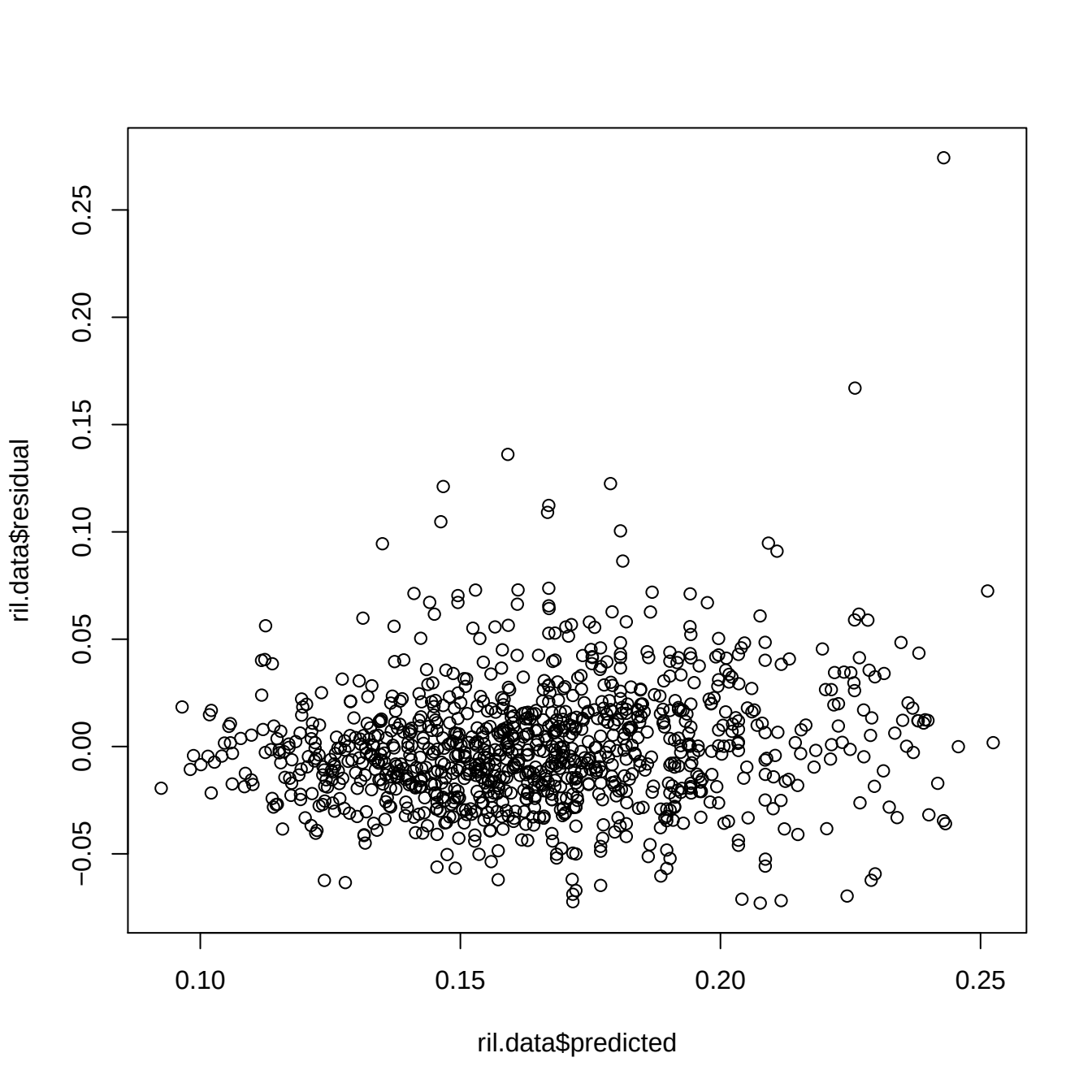

leaf_mass_per_DAS
0.000
0.005
0.010
0.015
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

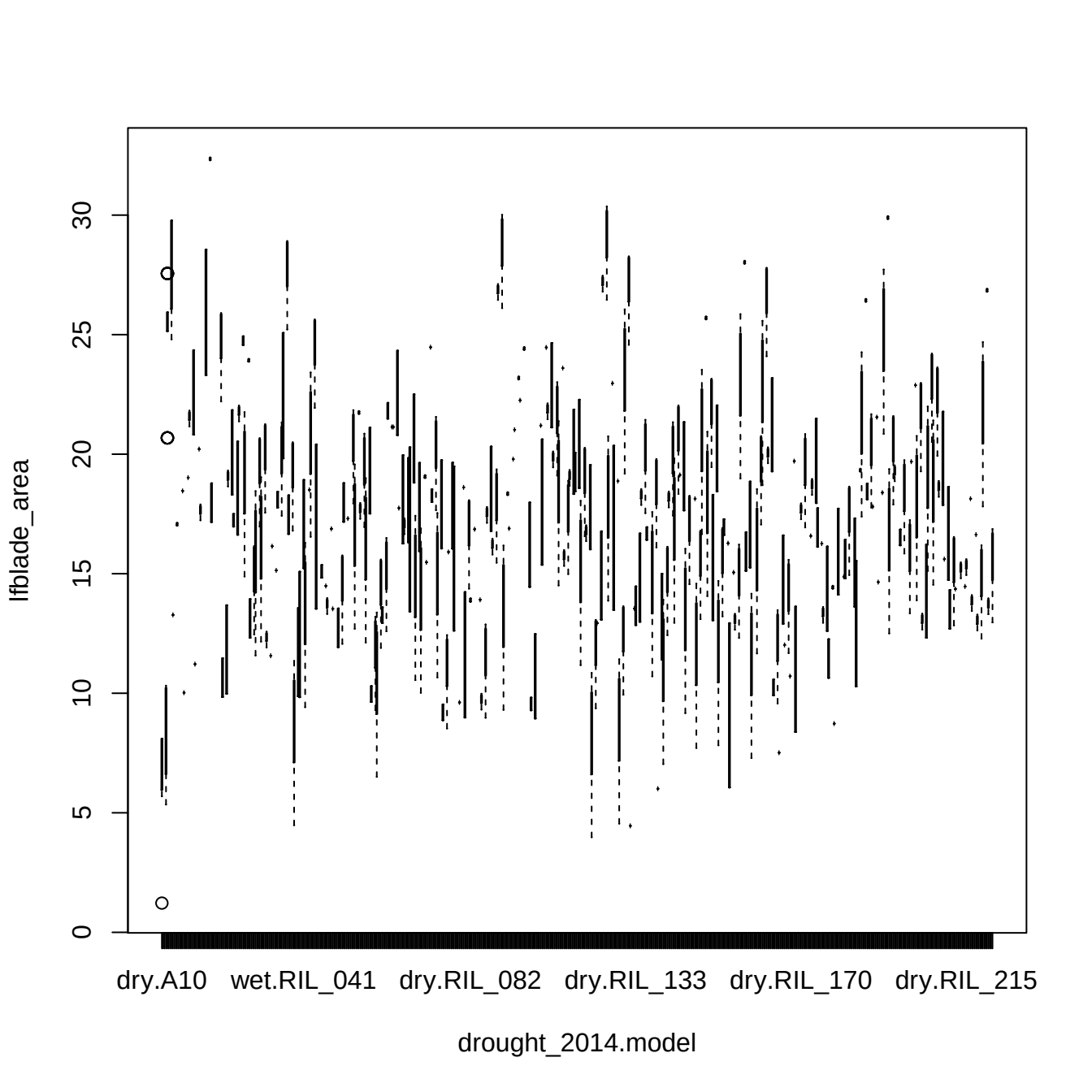

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.020
0.015
0.010
0.005
0.000
−0.005
−3
−2
−1
0
1
2
3

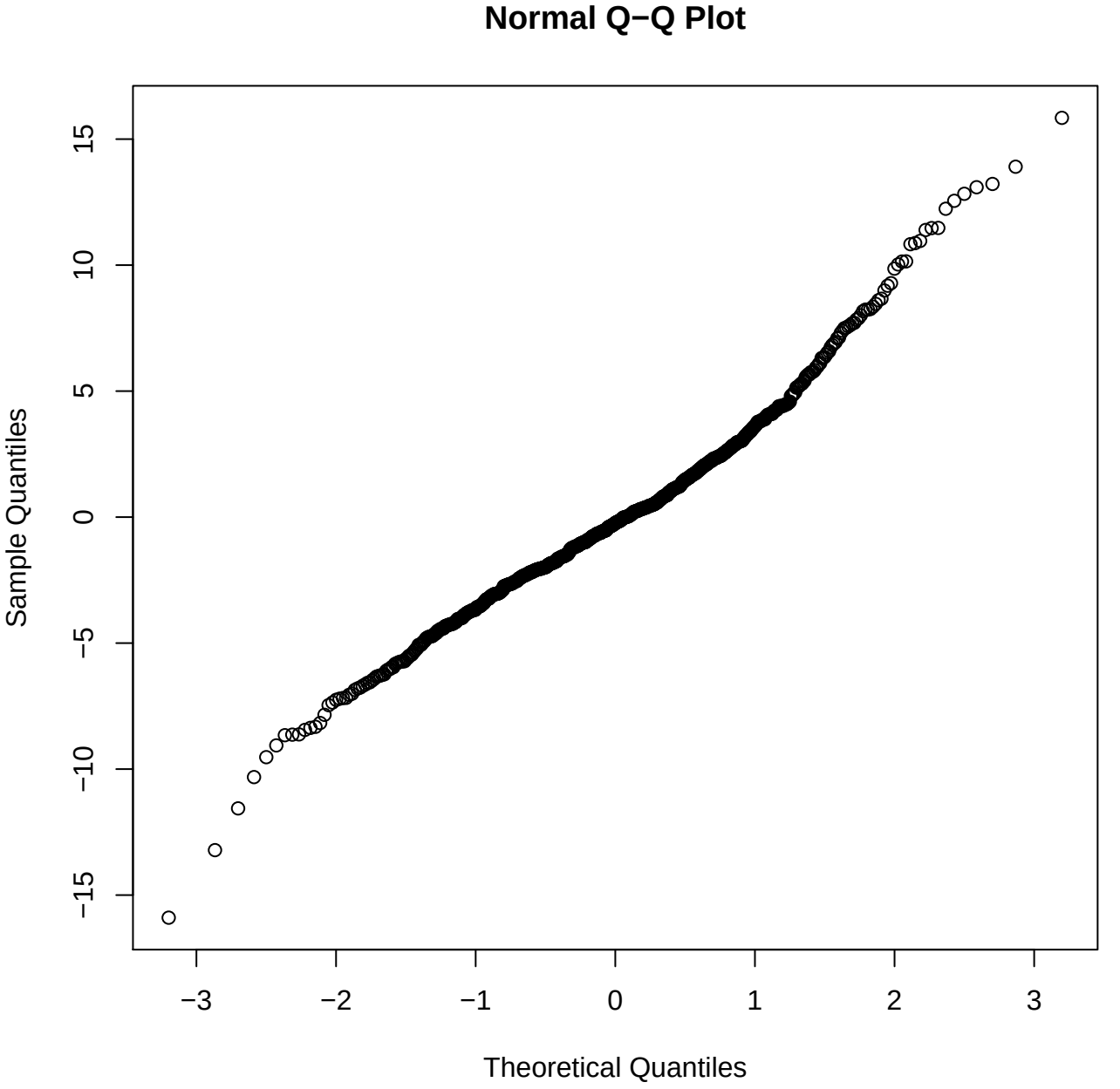

ril.data$residual
0.020
0.015
0.010
0.005
0.000
−0.005
0.000
0.005
0.010
0.015
ril.data$predicted

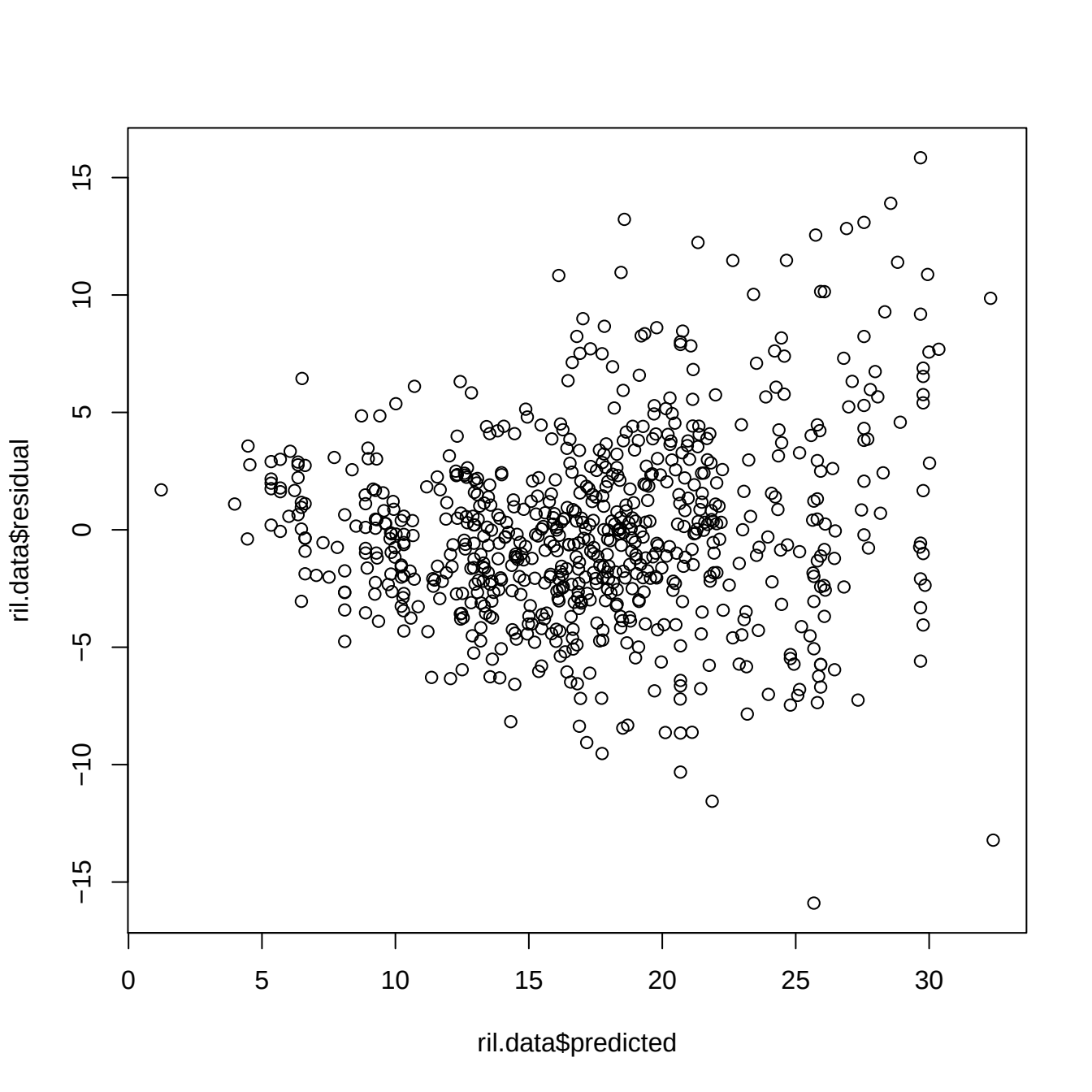

leaf_mass_ratio
0.10
0.15
0.20
0.25
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

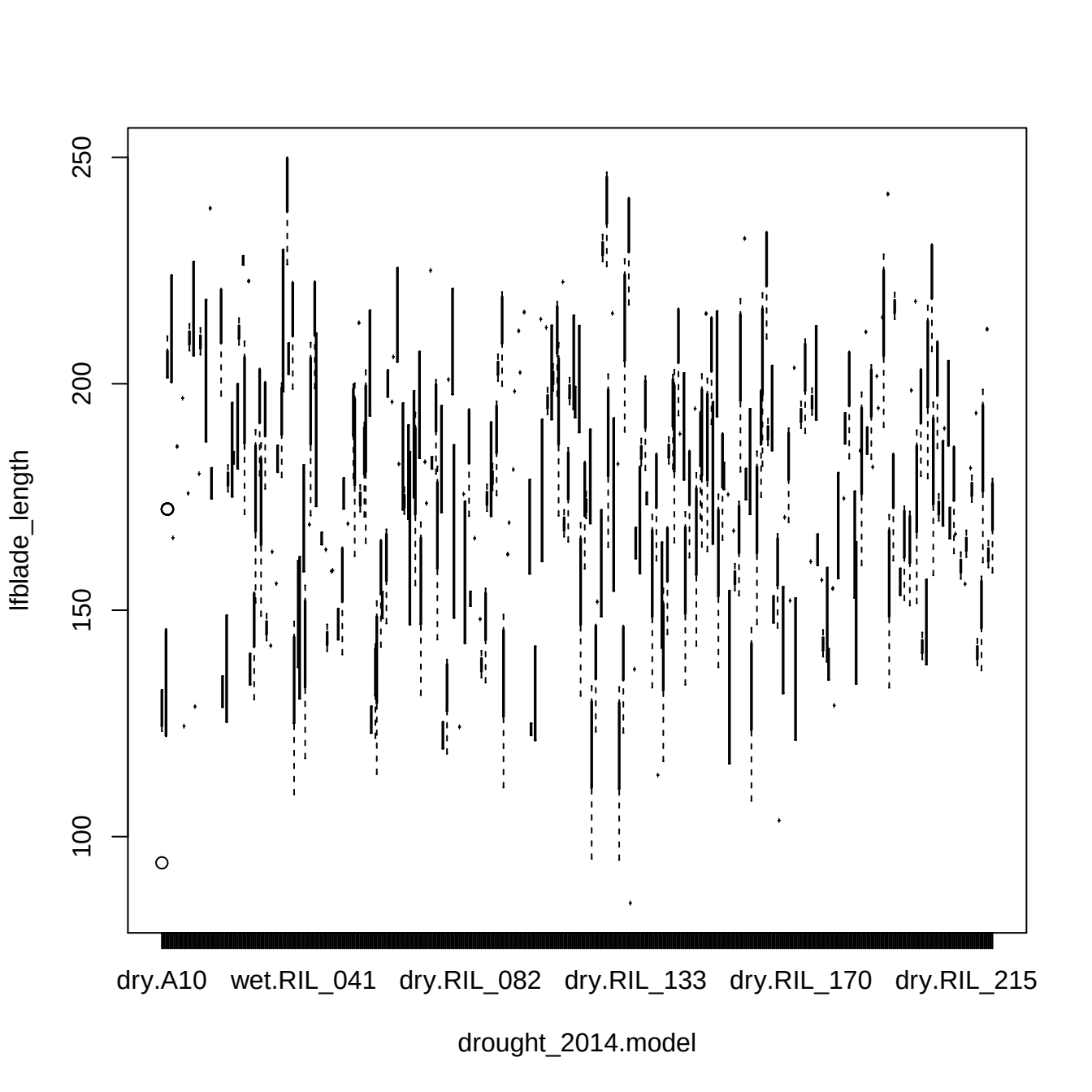

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−0.05
0.00
0.05
0.10
0.15
0.20
0.25
−3
−2
−1
0
1
2
3

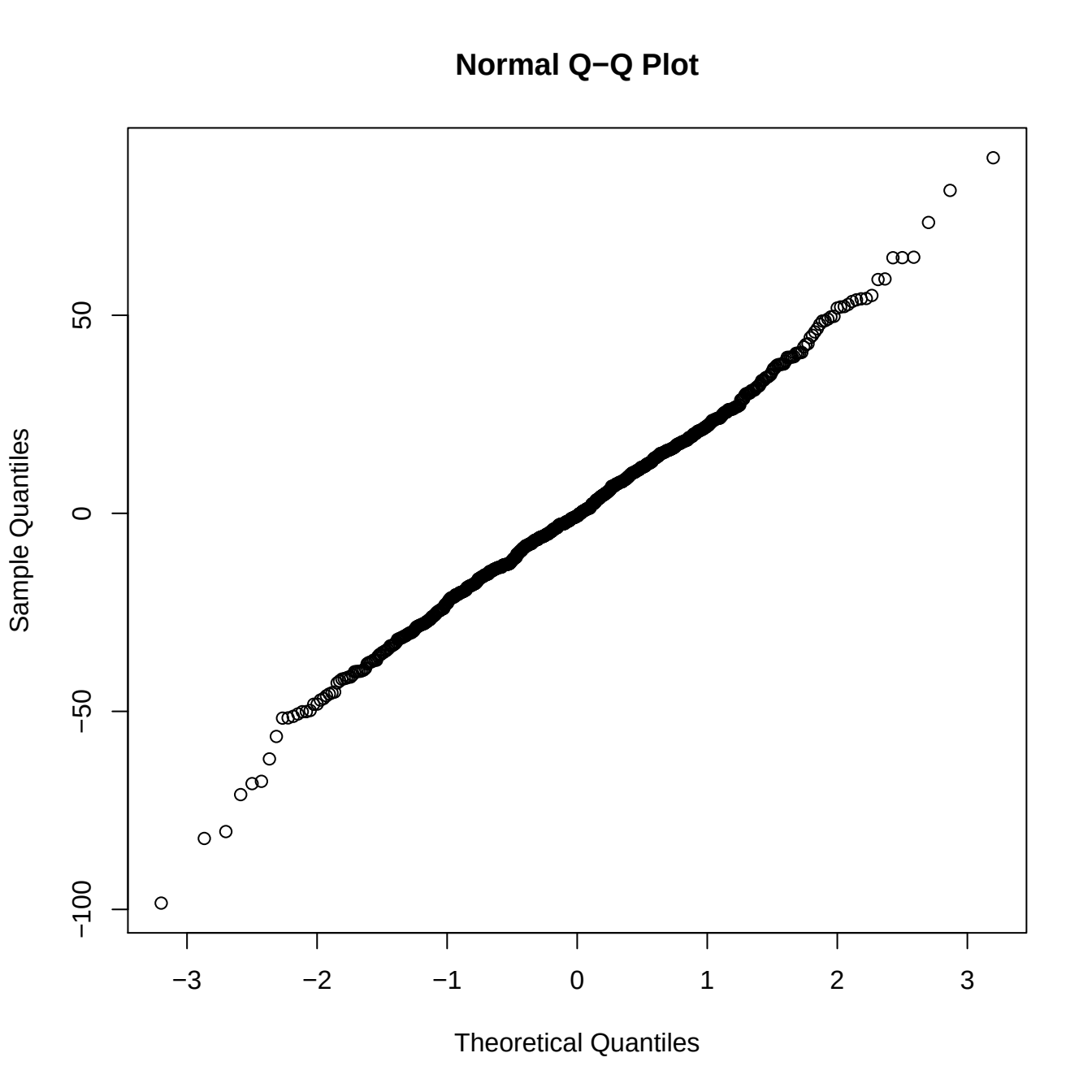

ril.data$residual
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
0.10
0.15
0.20
0.25
ril.data$predicted

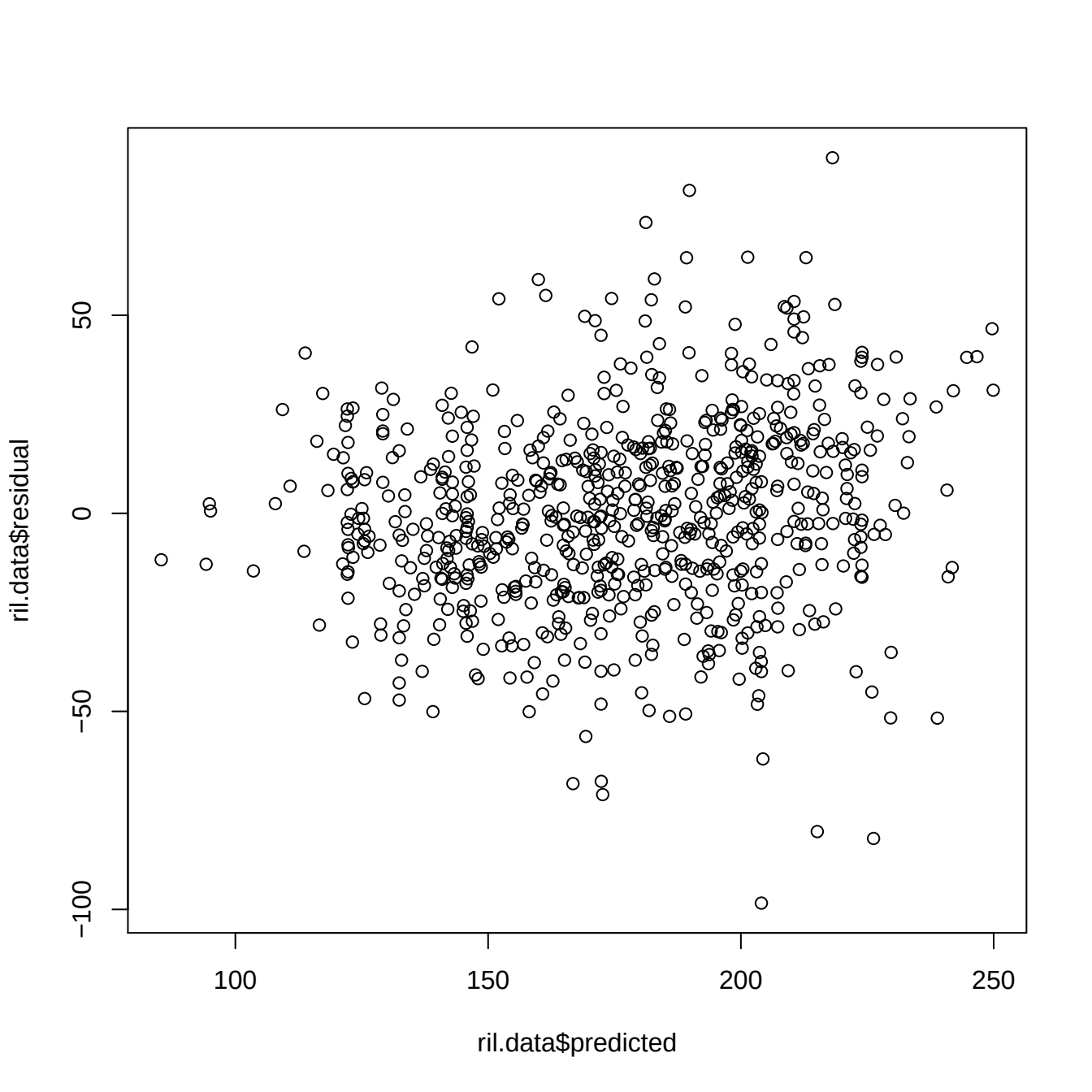

lfblade_area
0
5
10
15
20
25
30
dry.A10
wet.RIL_041
dry.RIL_082
dry.RIL_133
dry.RIL_170
dry.RIL_215
drought_2014.model

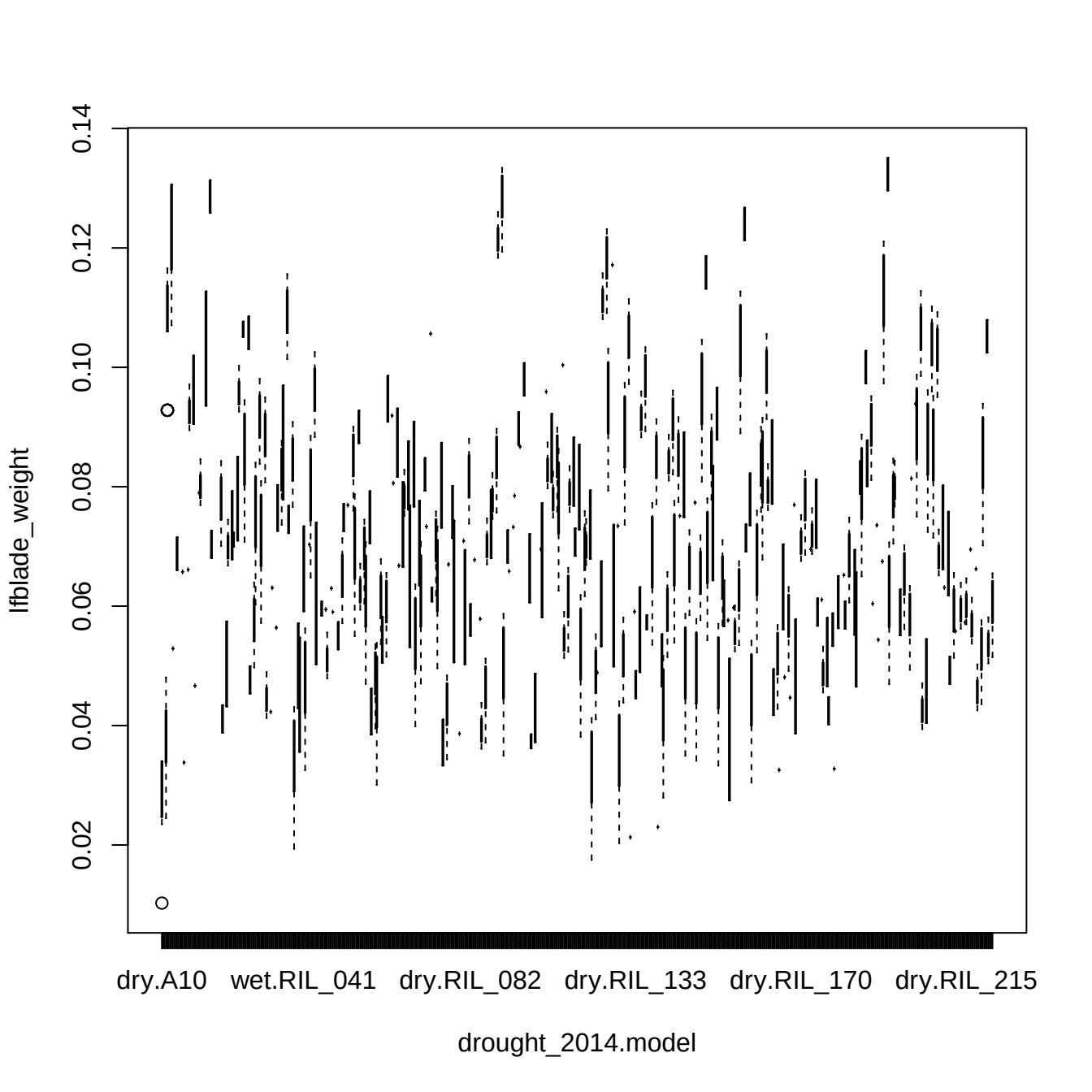

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
15
10
5
0
−5
−10
−15
−3
−2
−1
0
1
2
3

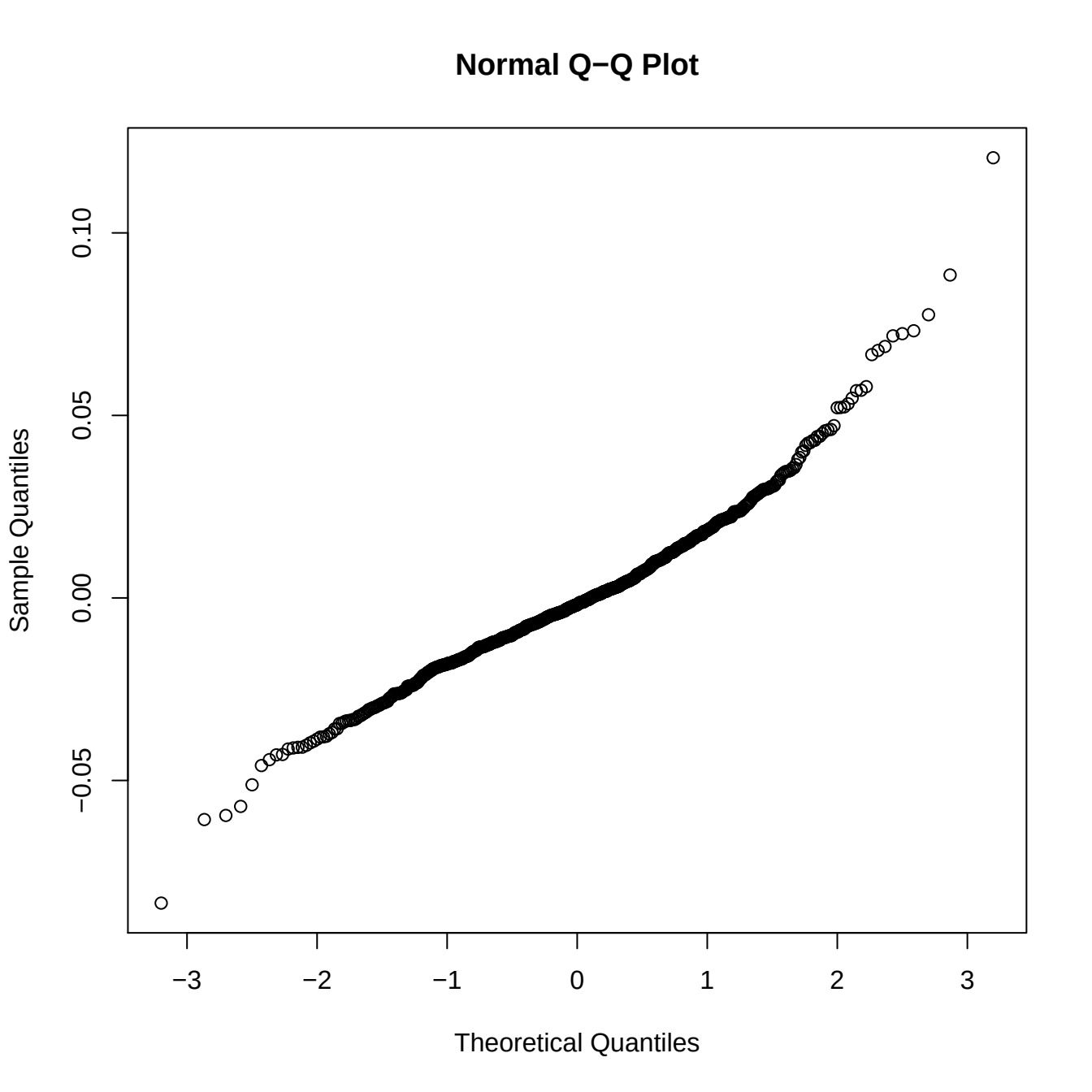

ril.data$residual
15
10
5
0
−5
−10
−15
0
5
10
15
20
25
30
ril.data$predicted

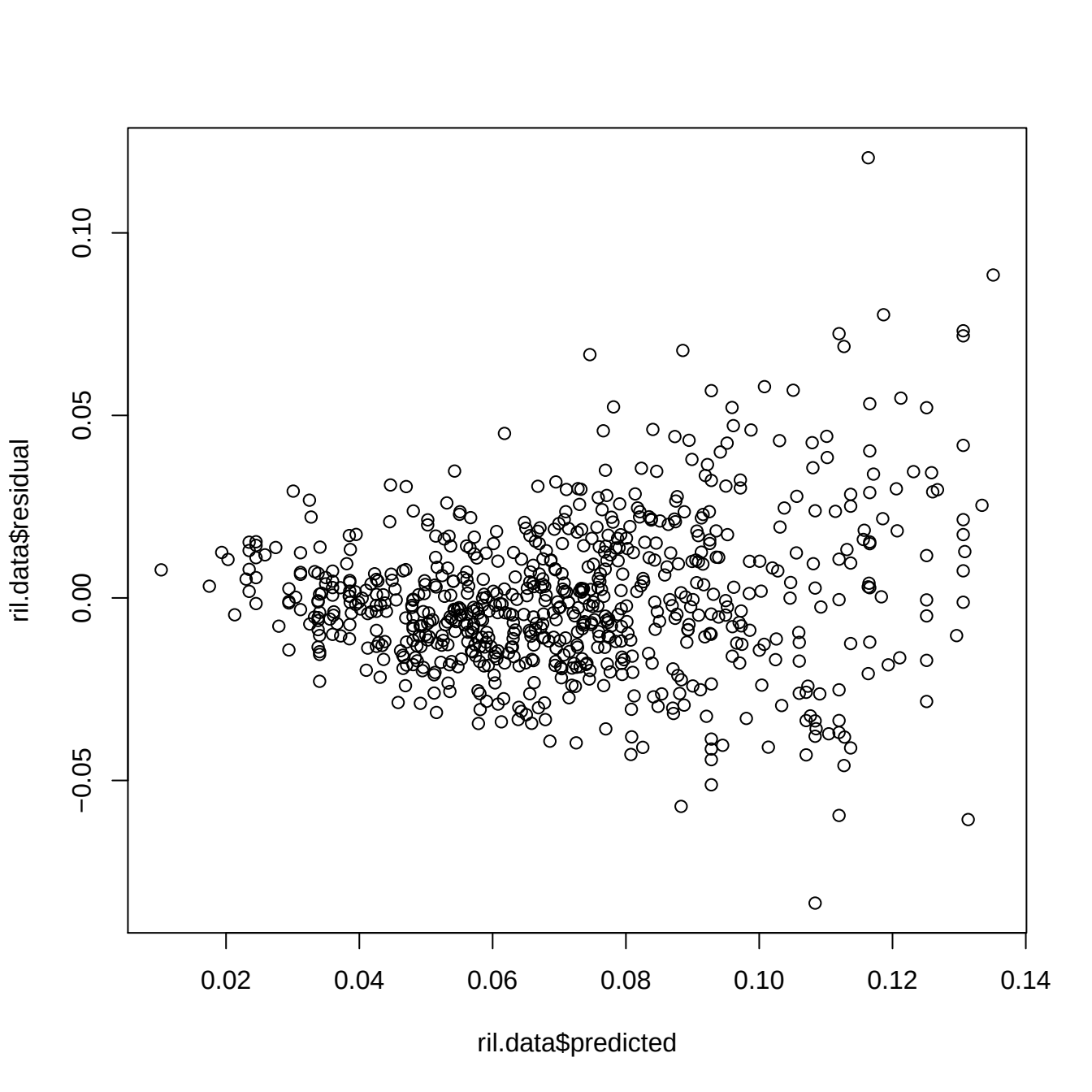

lfblade_length
250
200
150
100
dry.A10
wet.RIL_041
dry.RIL_082
dry.RIL_133
dry.RIL_170
dry.RIL_215
drought_2014.model

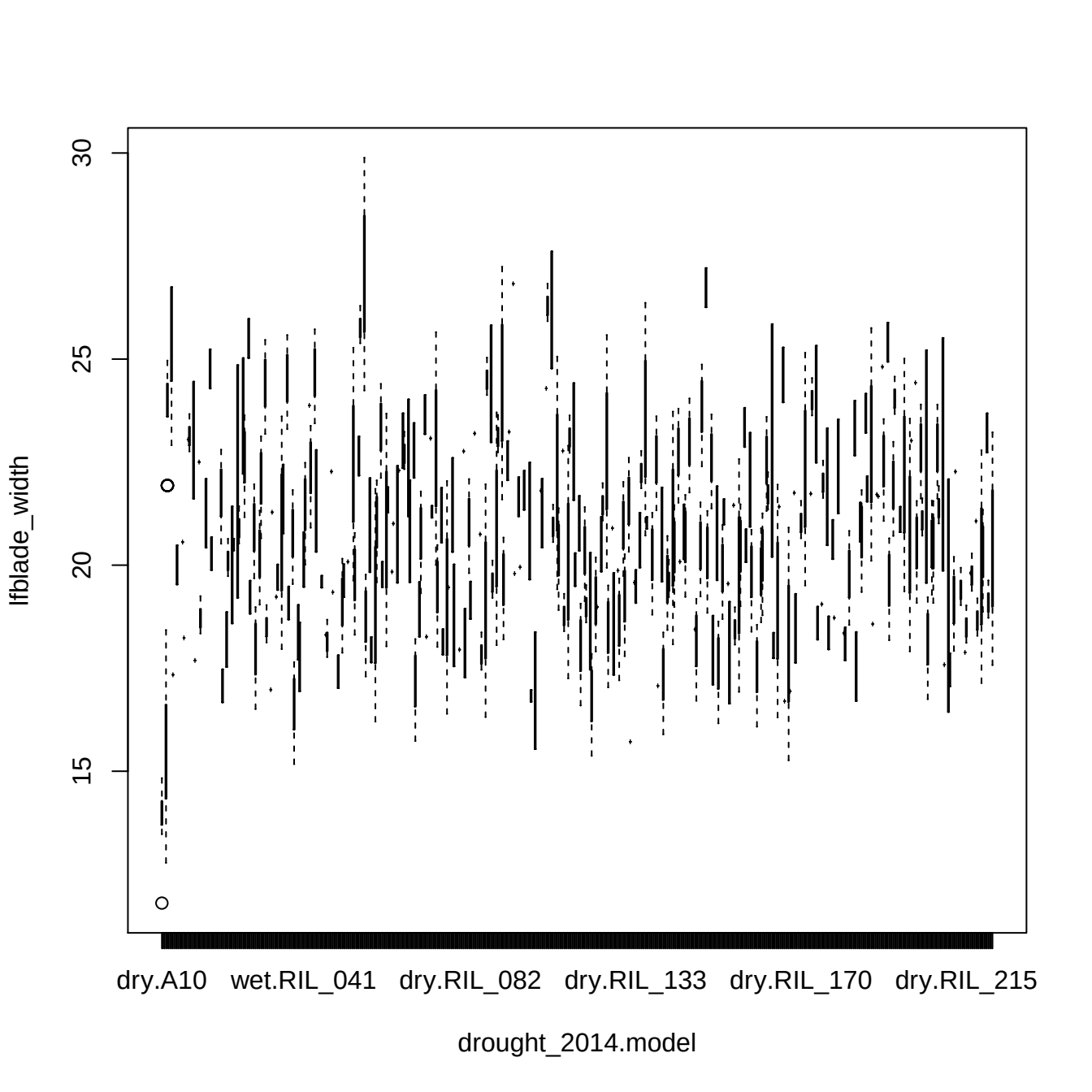

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−100
−50
0
50
−3
−2
−1
0
1
2
3

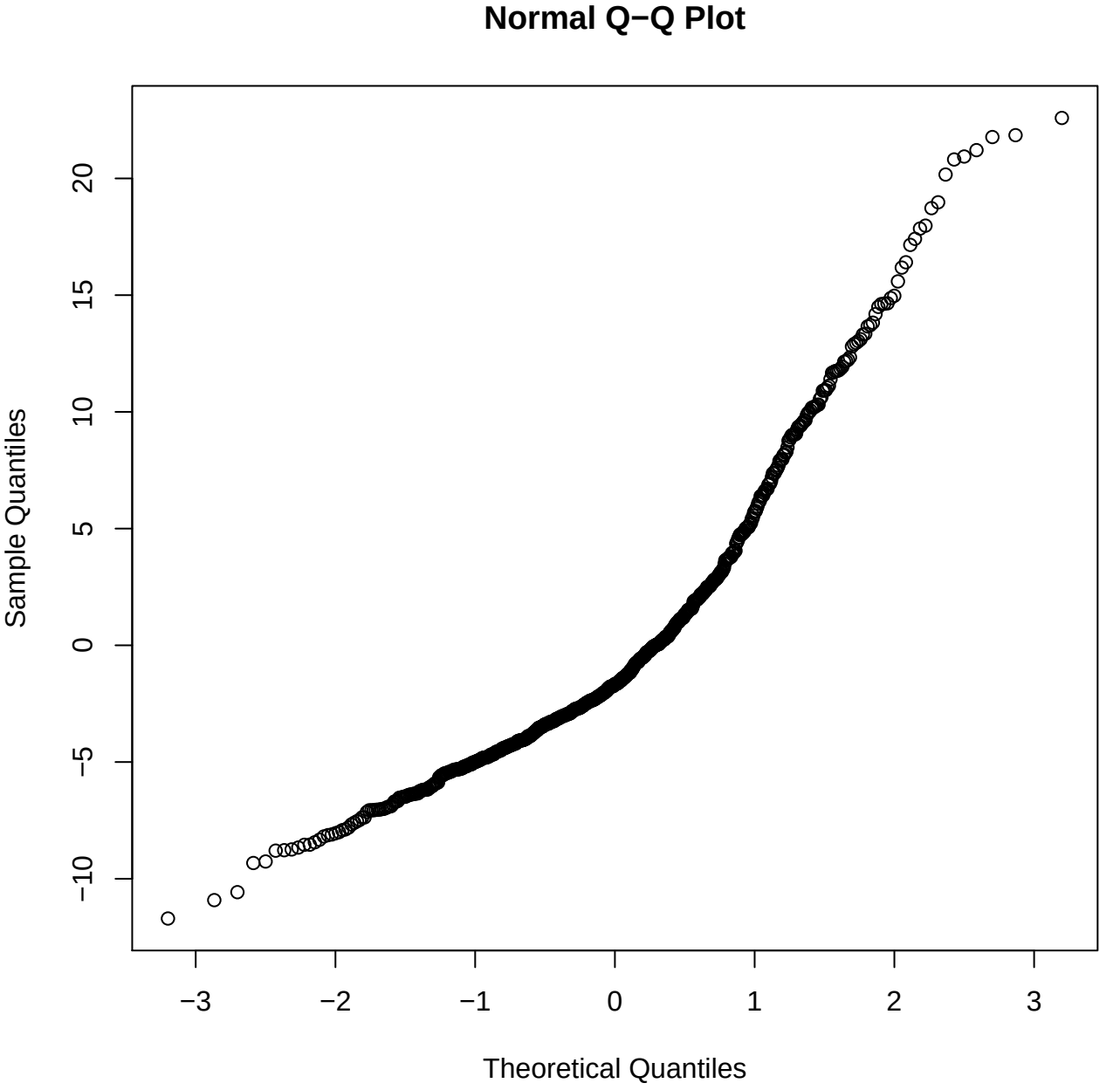

ril.data$residual
50
0
−50
−100
100
150
200
250
ril.data$predicted

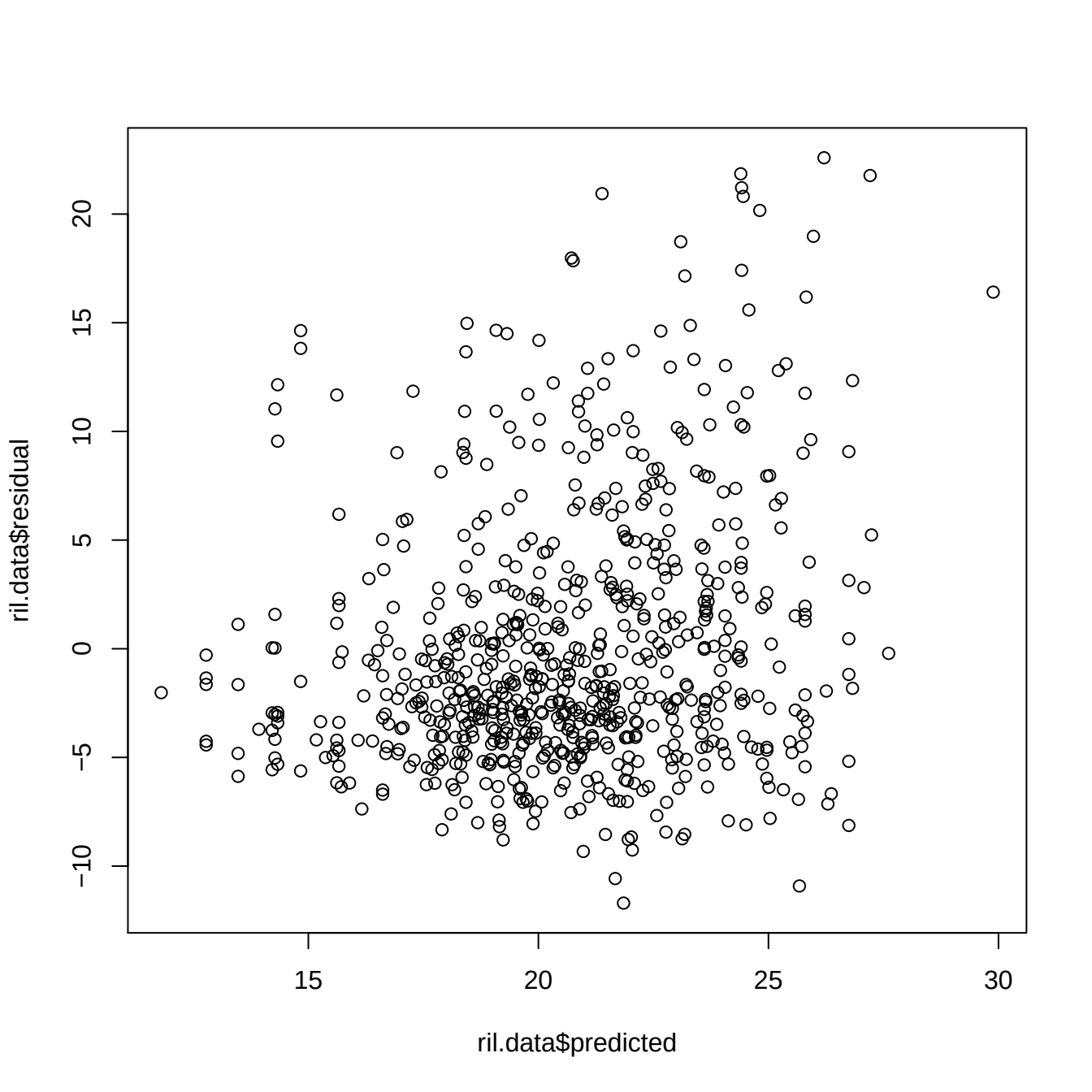

lfblade_weight
0.02
0.04
0.06
0.08
0.10
0.12
0.14
dry.A10
wet.RIL_041
dry.RIL_082
dry.RIL_133
dry.RIL_170
dry.RIL_215
drought_2014.model

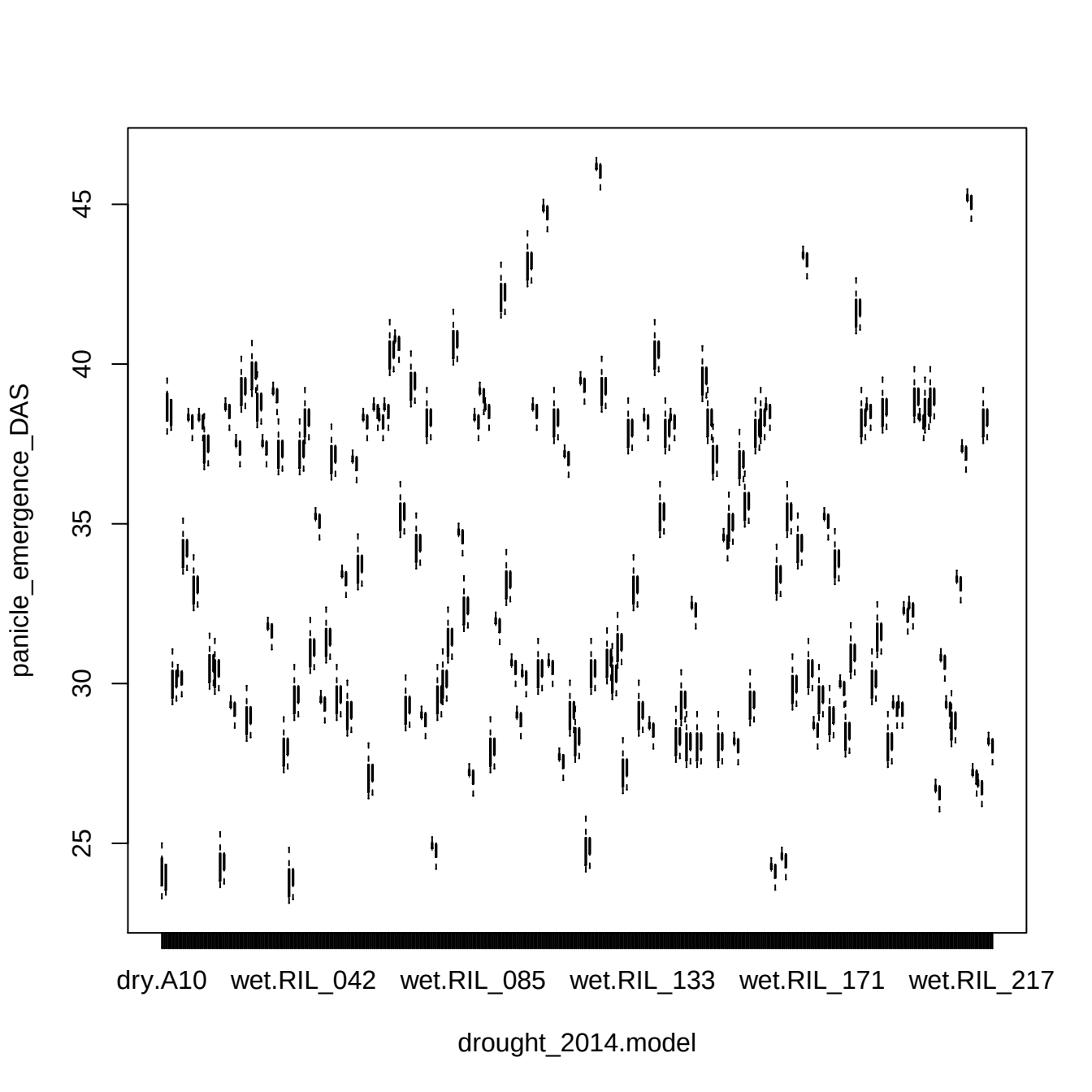

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.10
0.05
0.00
−0.05
−3
−2
−1
0
1
2
3

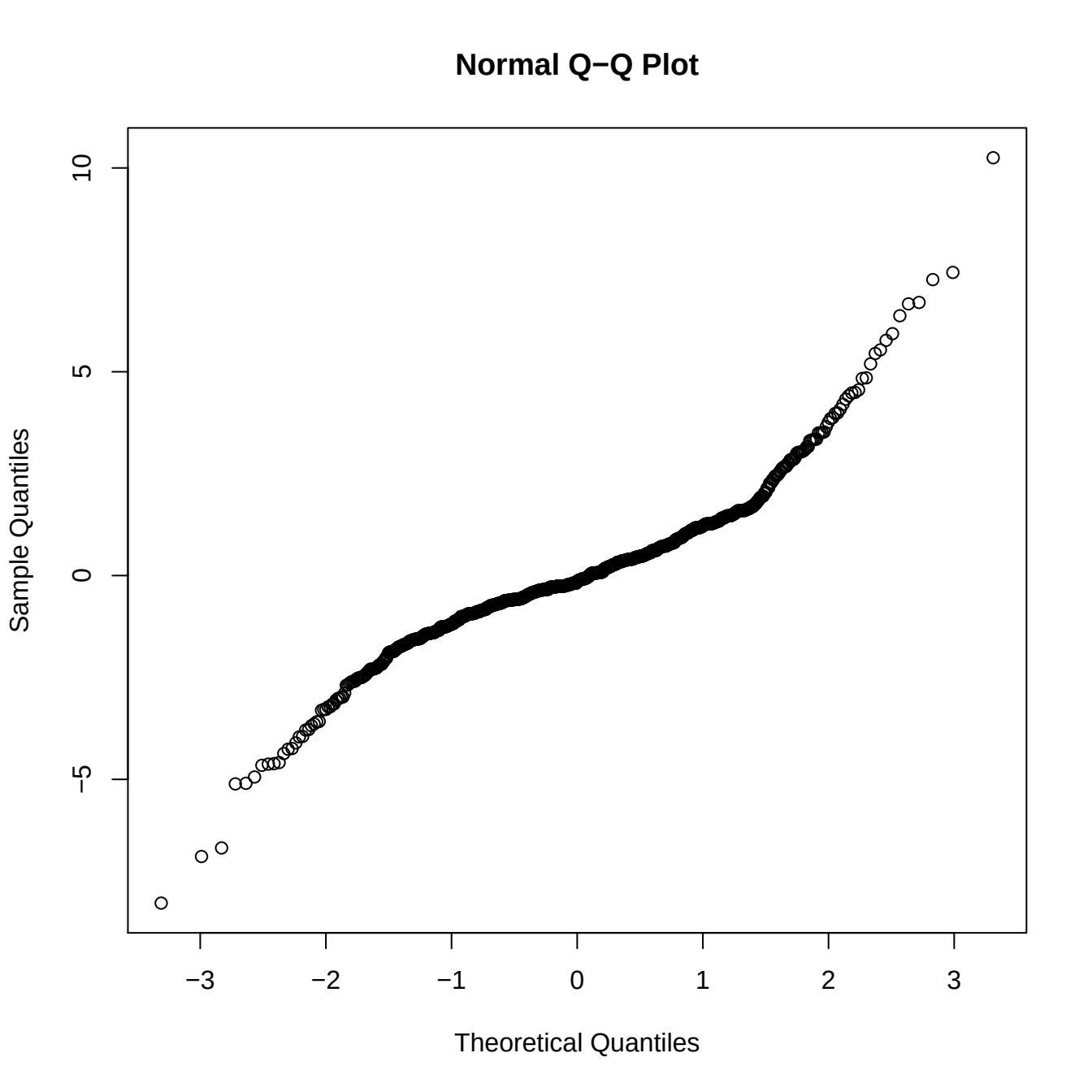

ril.data$residual
0.10
0.05
0.00
−0.05
0.02
0.04
0.06
0.08
0.10
0.12
0.14
ril.data$predicted


lfblade_width
30
25
20
15
dry.A10
wet.RIL_041
dry.RIL_082
dry.RIL_133
dry.RIL_170
dry.RIL_215
drought_2014.model

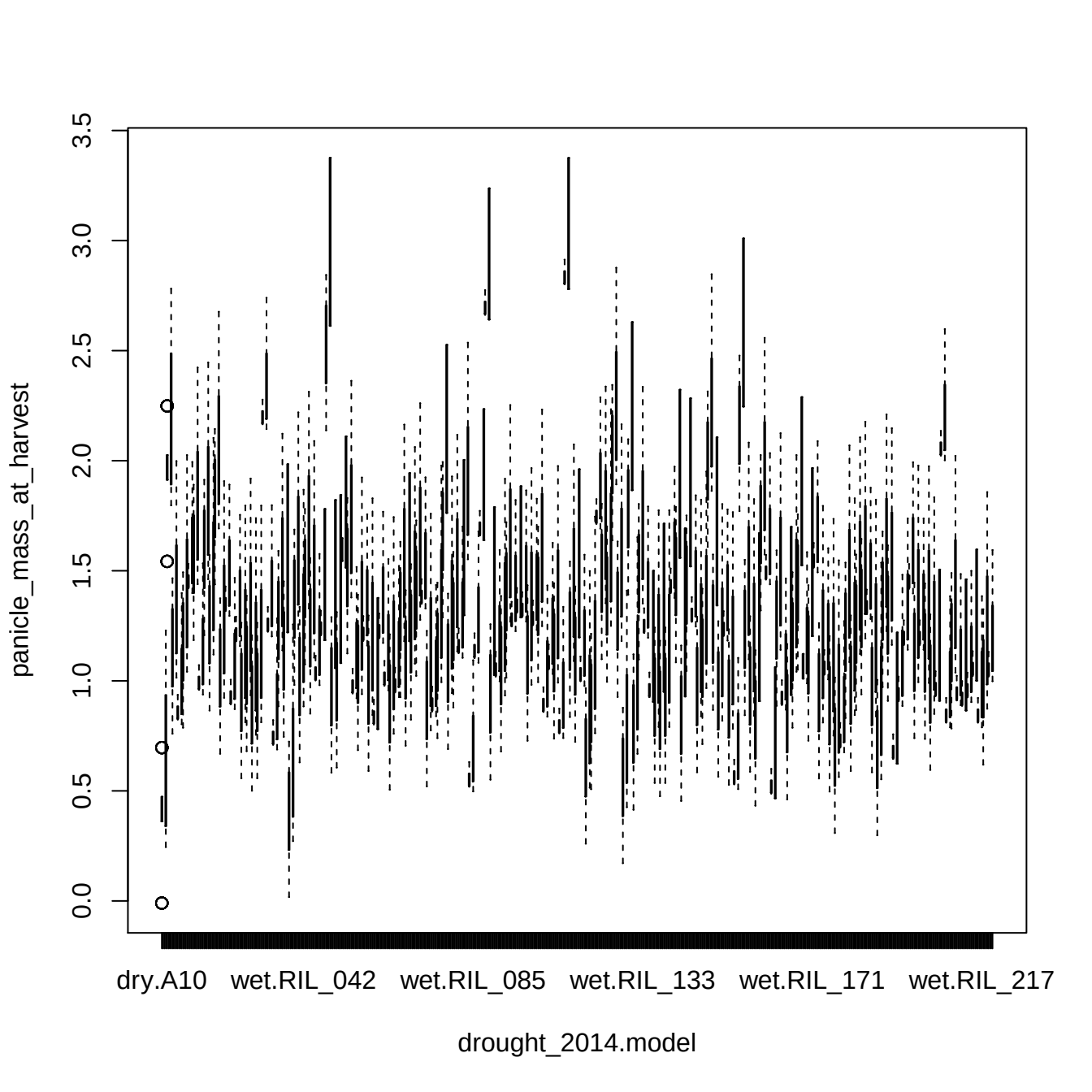

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
15
20
−3
−2
−1
0
1
2
3

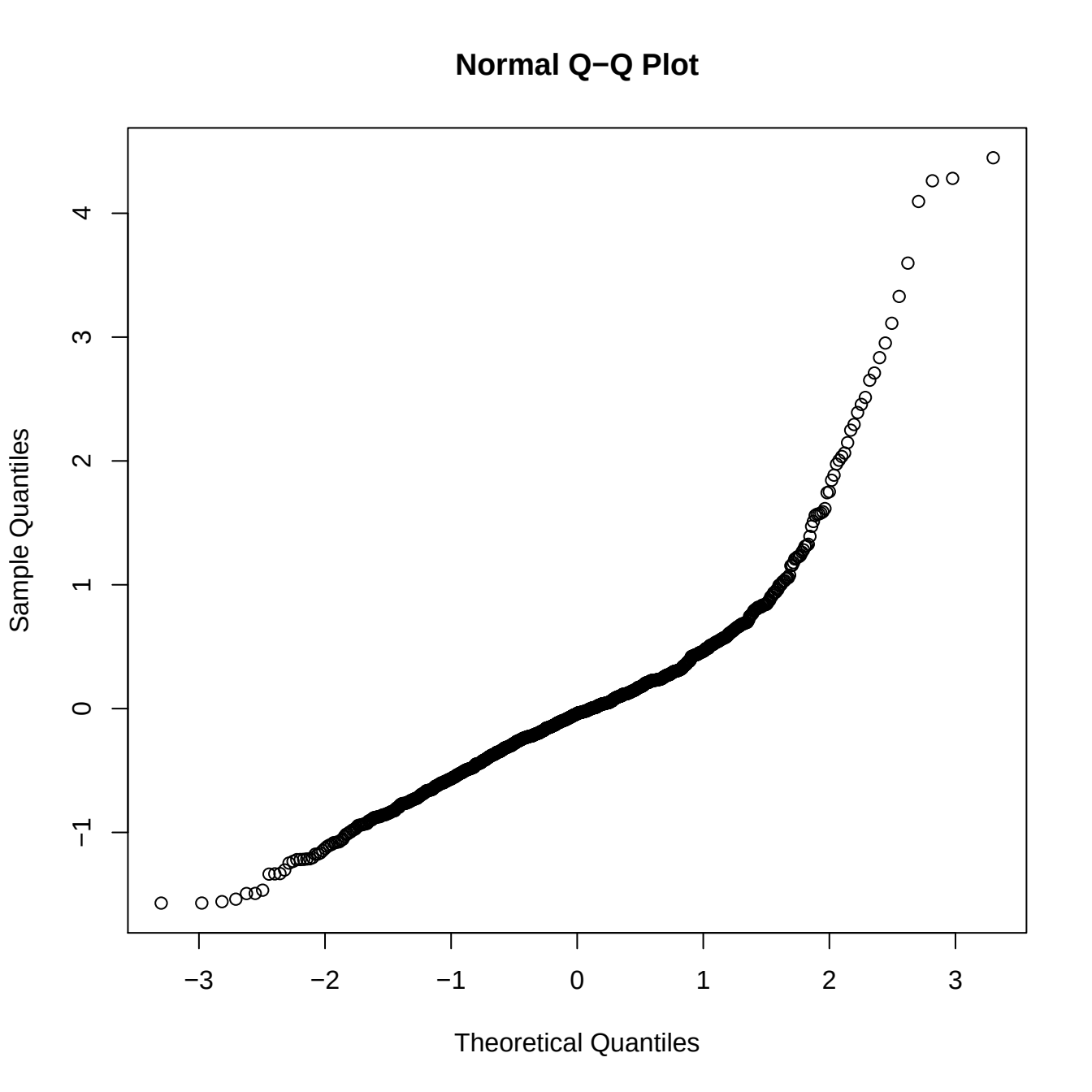

ril.data$residual
20
15
10
5
0
−5
−10
15
20
25
30
ril.data$predicted

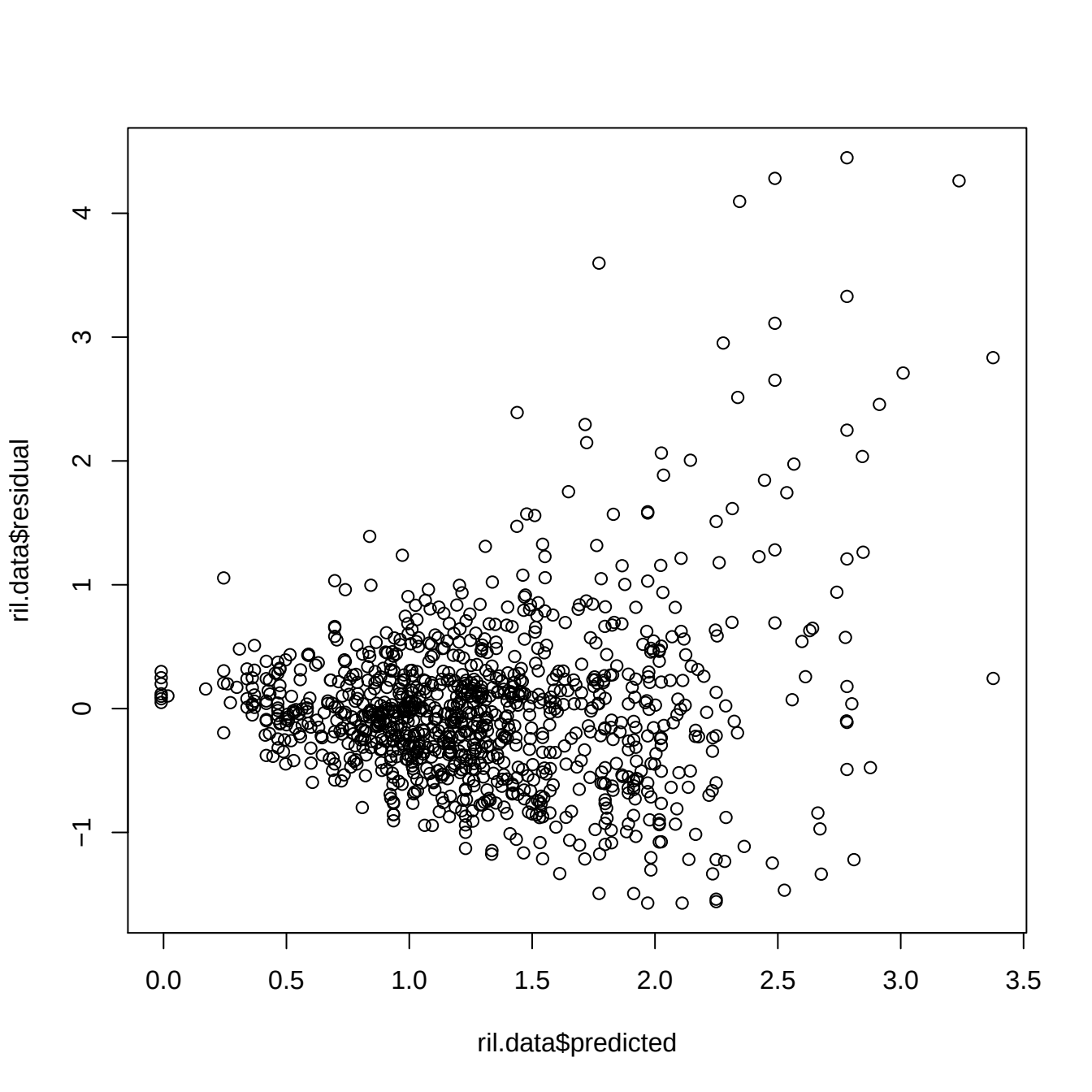

panicle_emergence_DAS
25
30
35
40
45
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

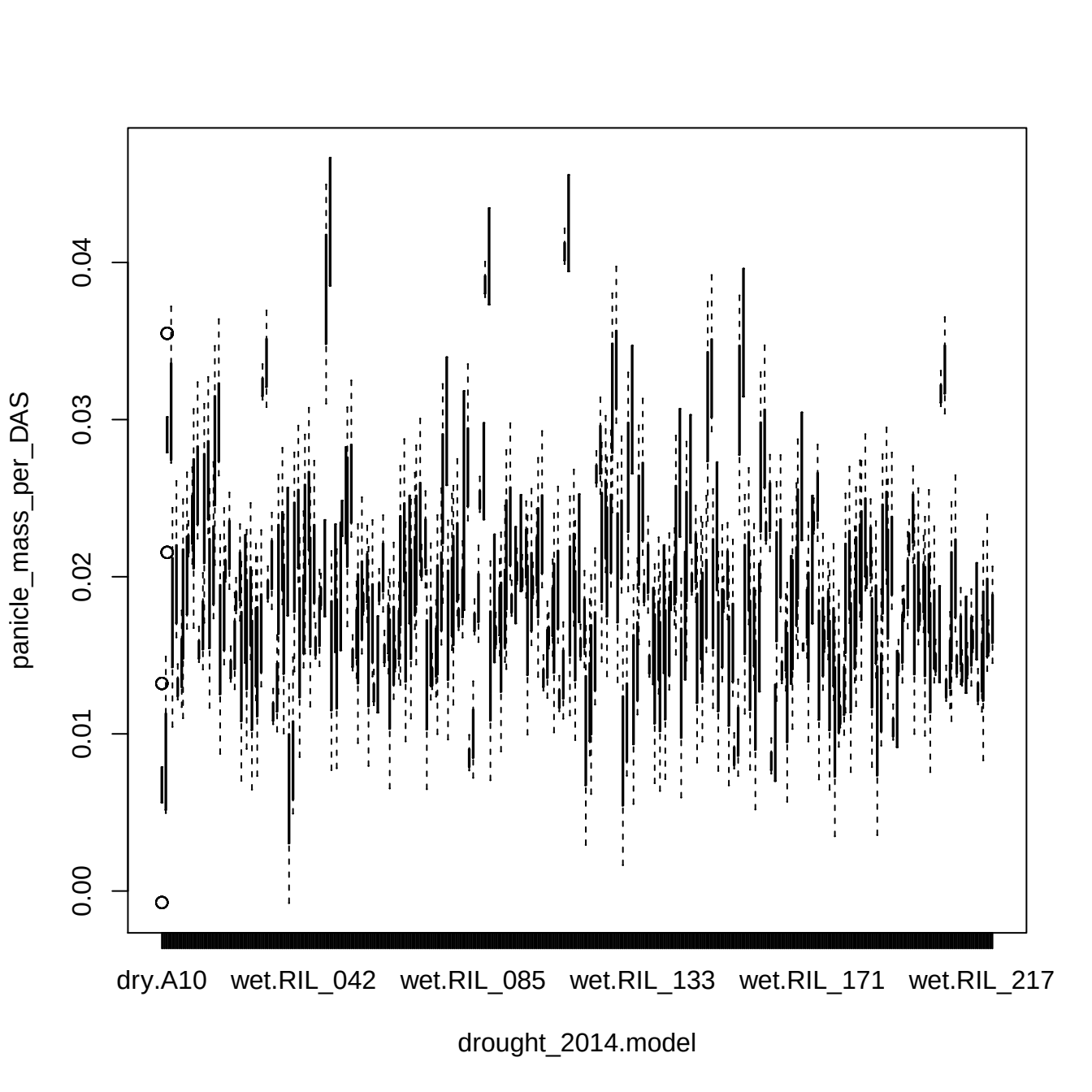

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
10
5
0
−5
−3
−2
−1
0
1
2
3

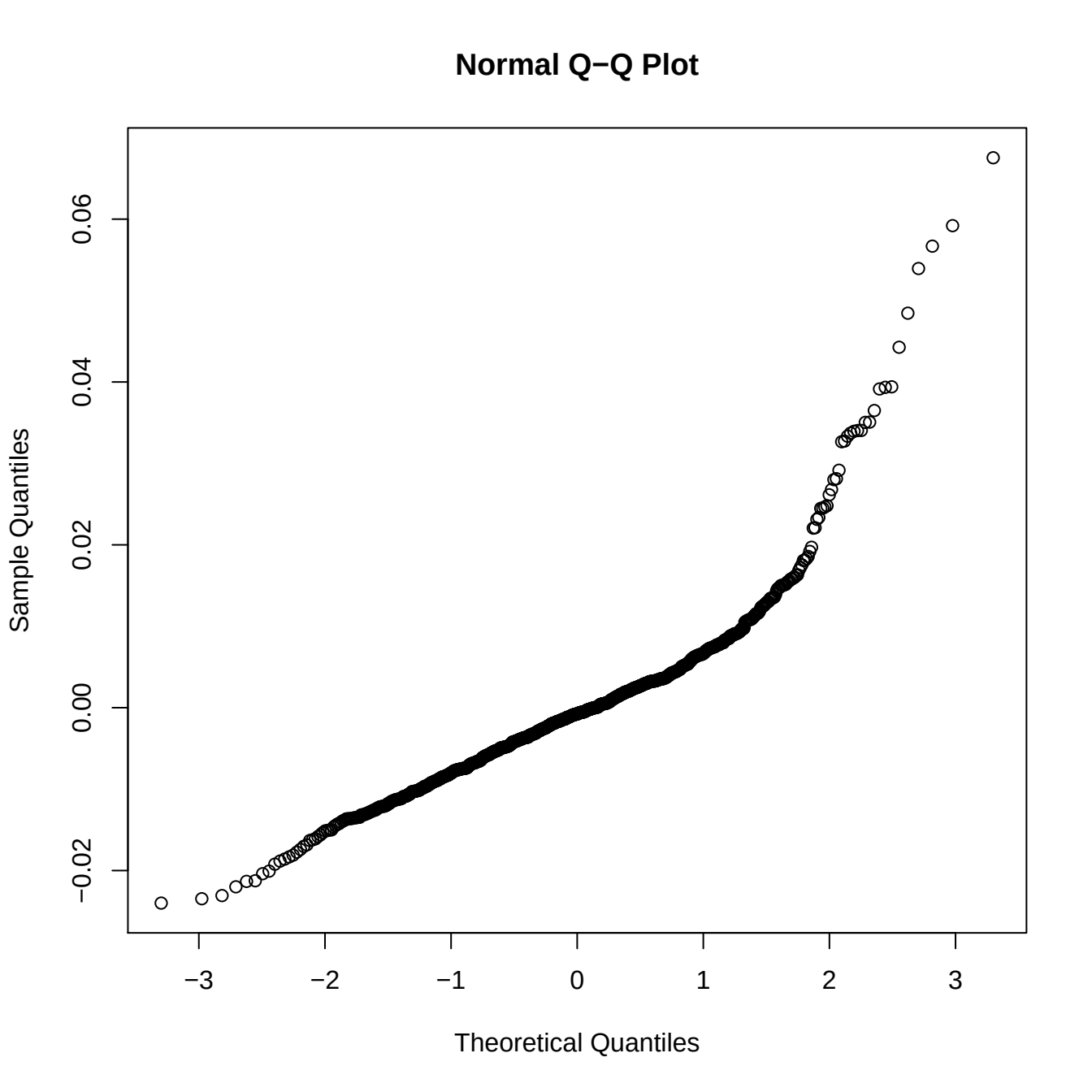
ril.data$residual
10
5
0
−5
25
30
35
40
45
ril.data$predicted

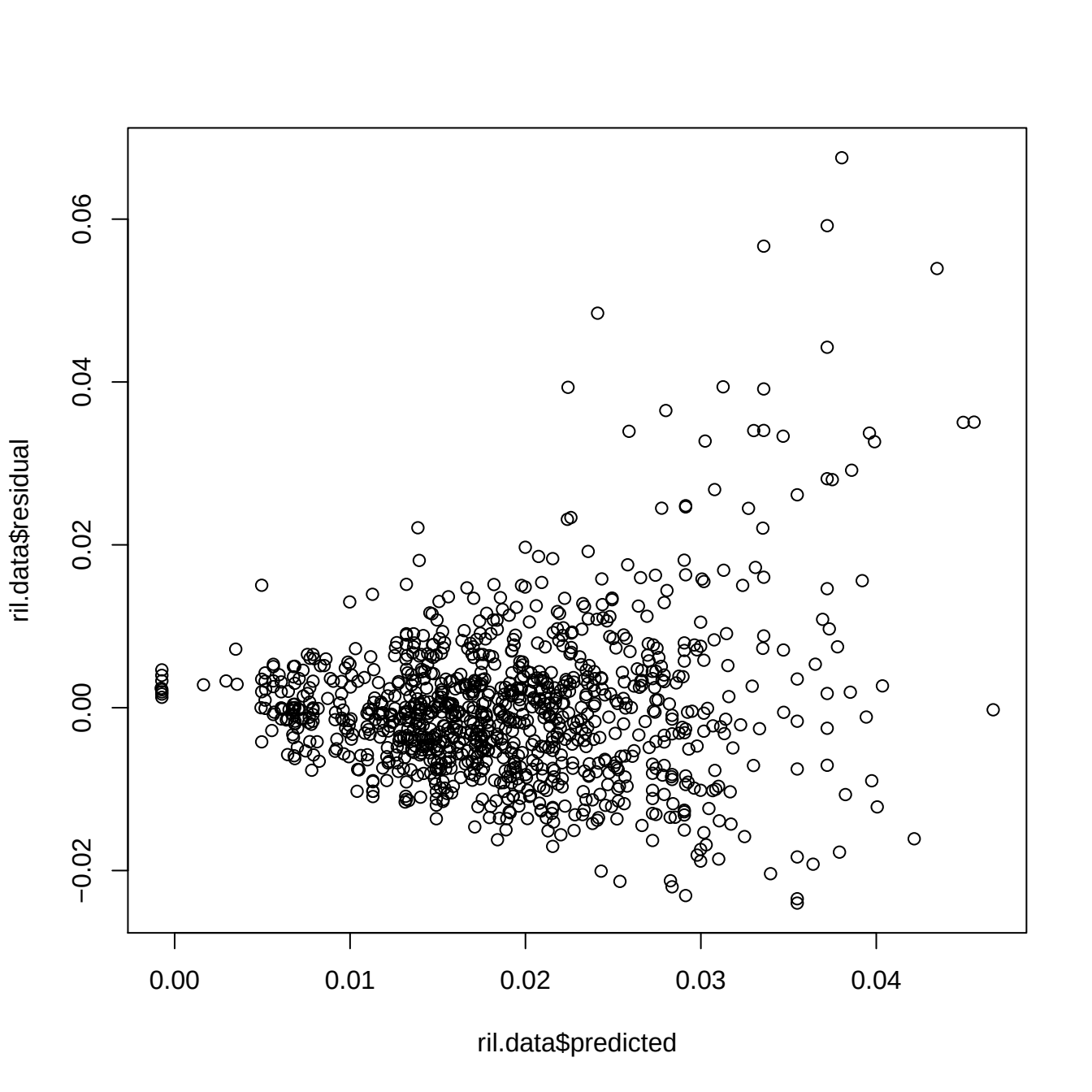

panicle_mass_at_harvest
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

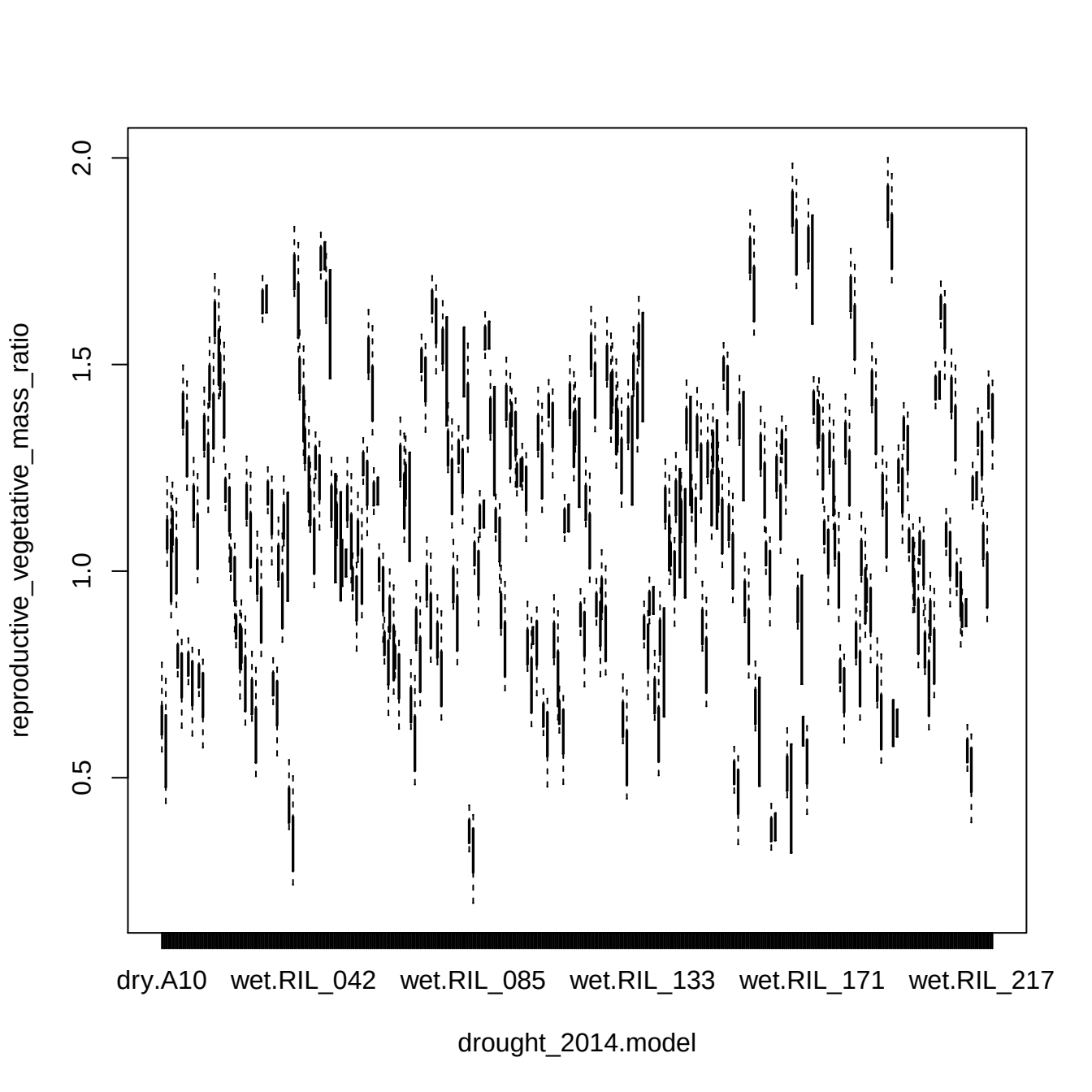

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−3
−2
−1
0
1
2
3
−1
0
1
2
3
4

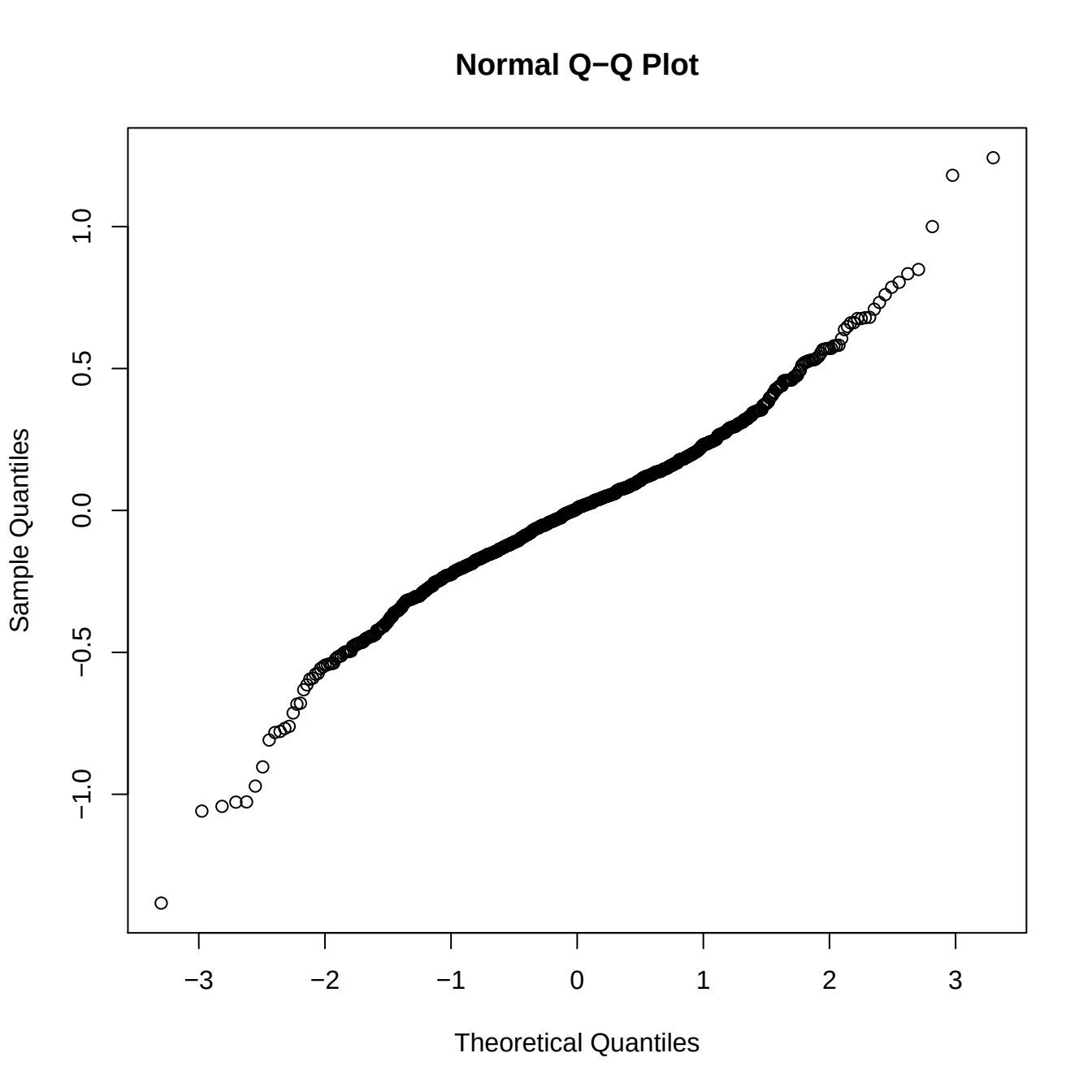

ril.data$residual
4
3
2
1
0
−1
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
ril.data$predicted

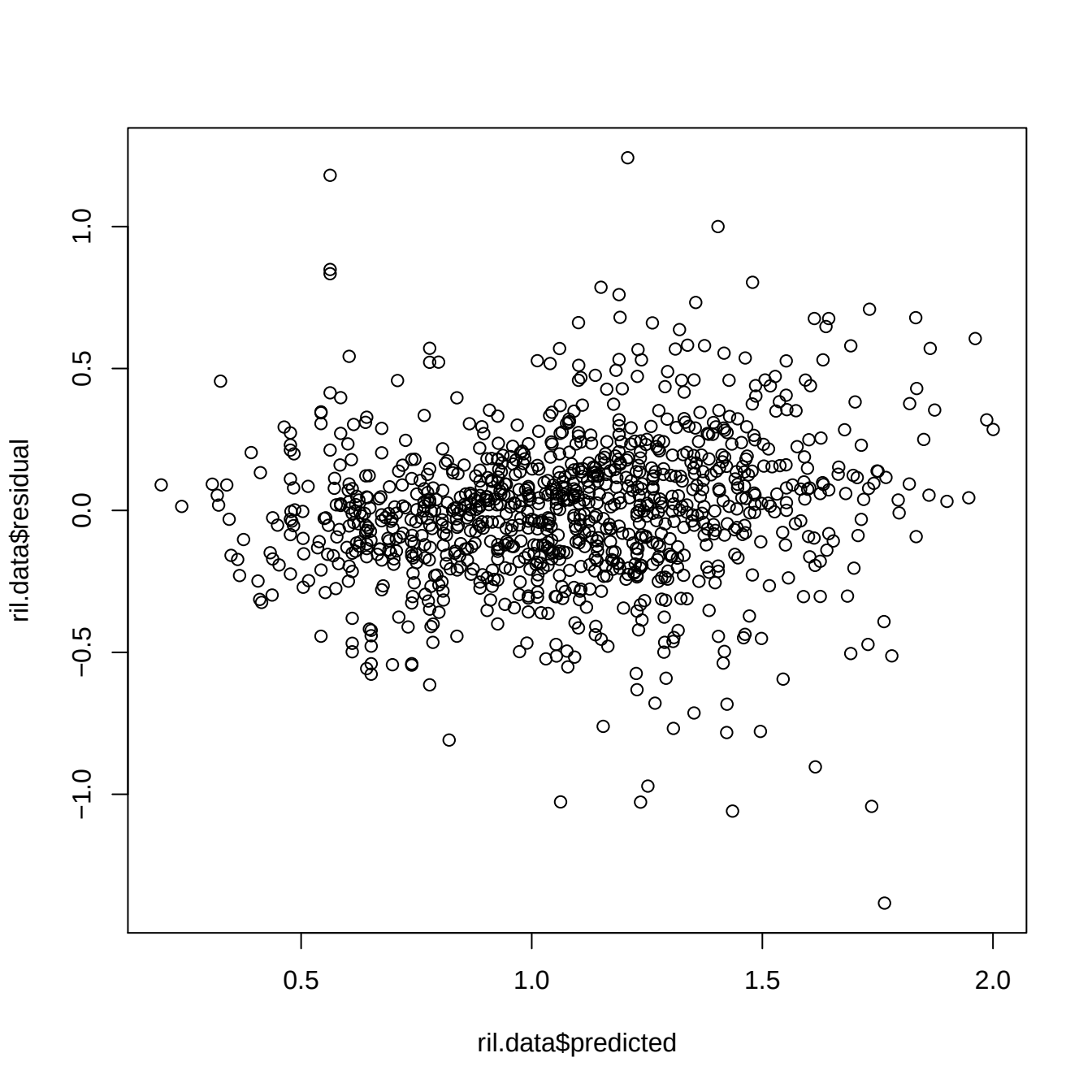

panicle_mass_per_DAS
0.00
0.01
0.02
0.03
0.04
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

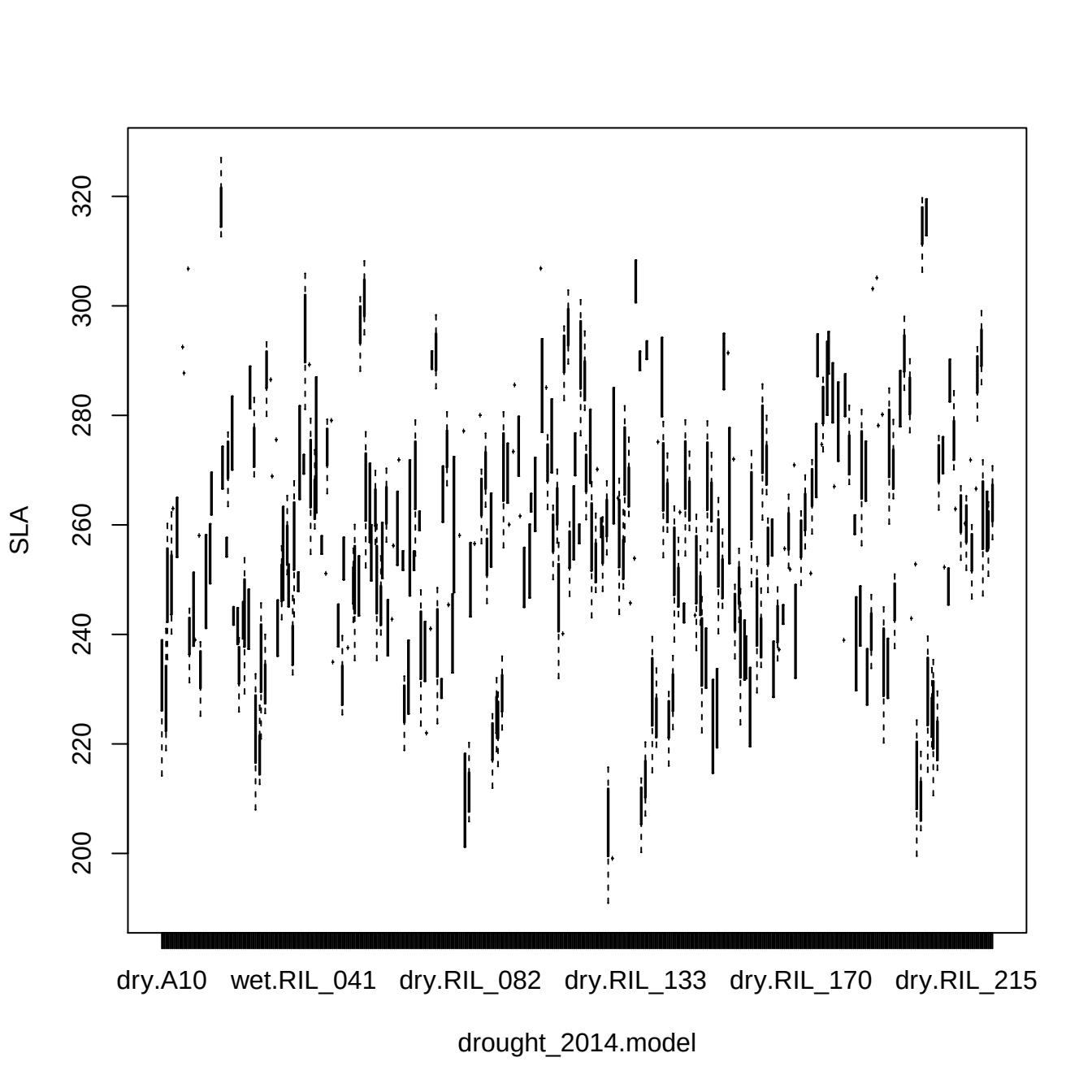

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.06
0.04
0.02
0.00
−0.02
−3
−2
−1
0
1
2
3

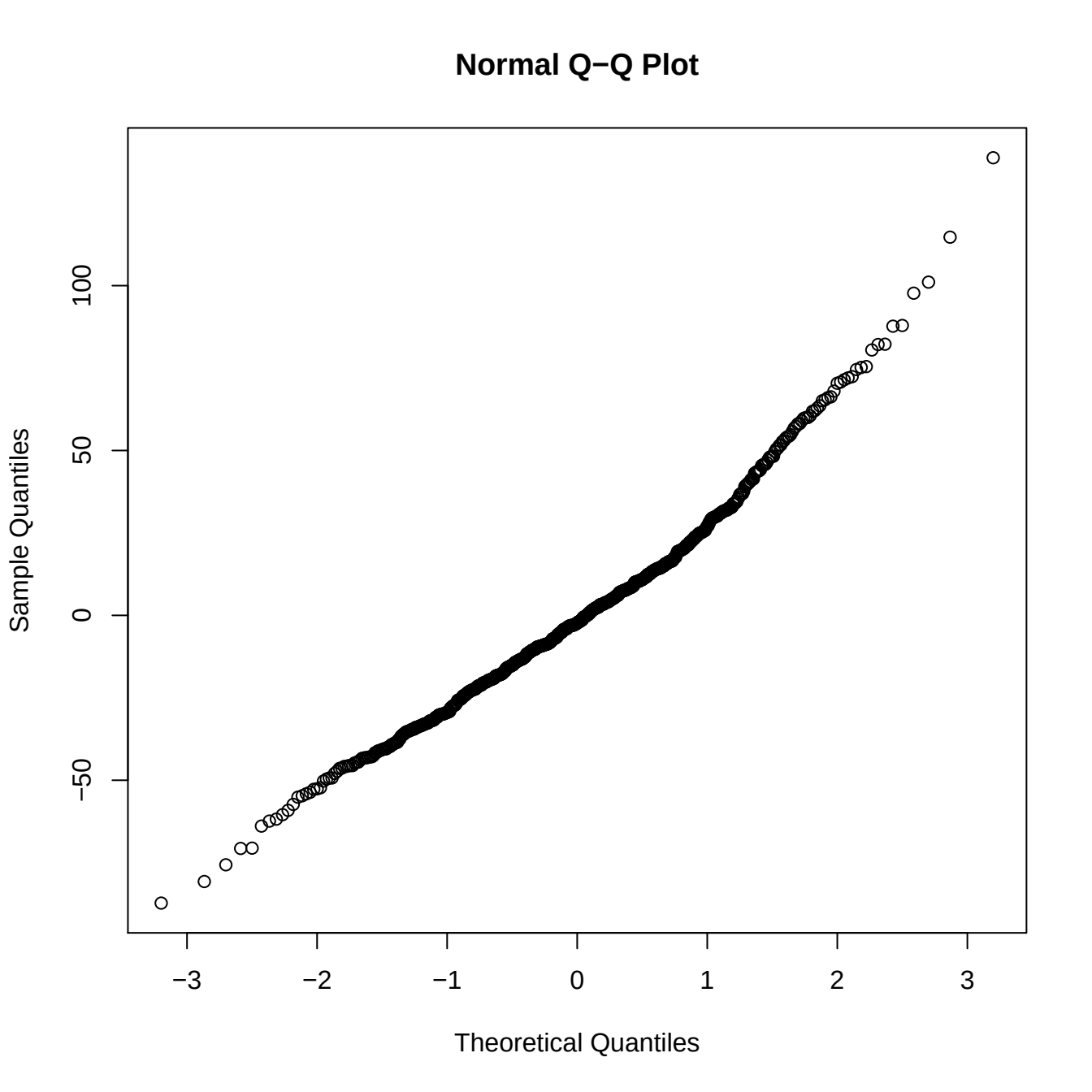

ril.data$residual
0.06
0.04
0.02
0.00
−0.02
0.00
0.01
0.02
0.03
0.04
ril.data$predicted

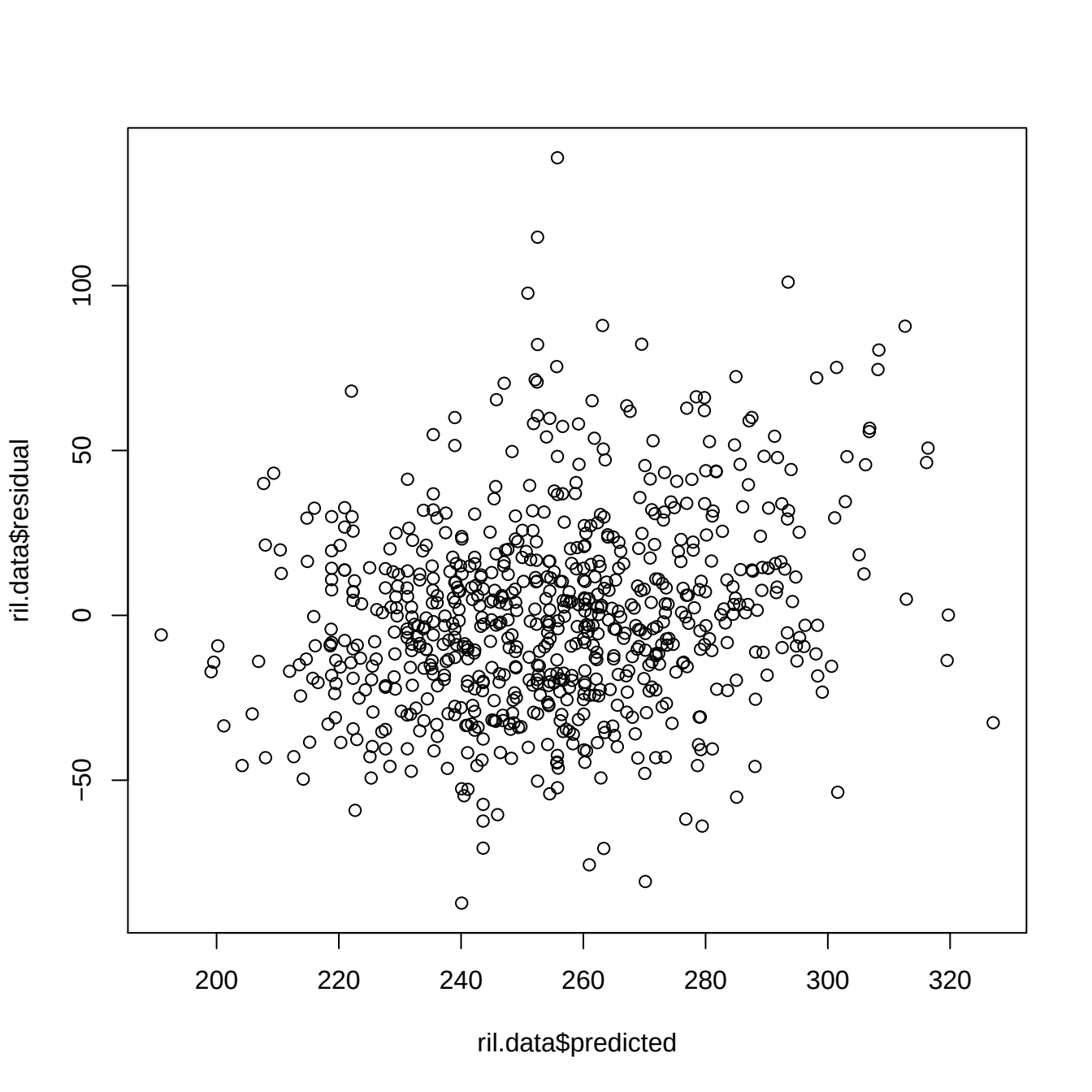

reproductive_vegetative_mass_ratio
2.0
1.5
1.0
0.5
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

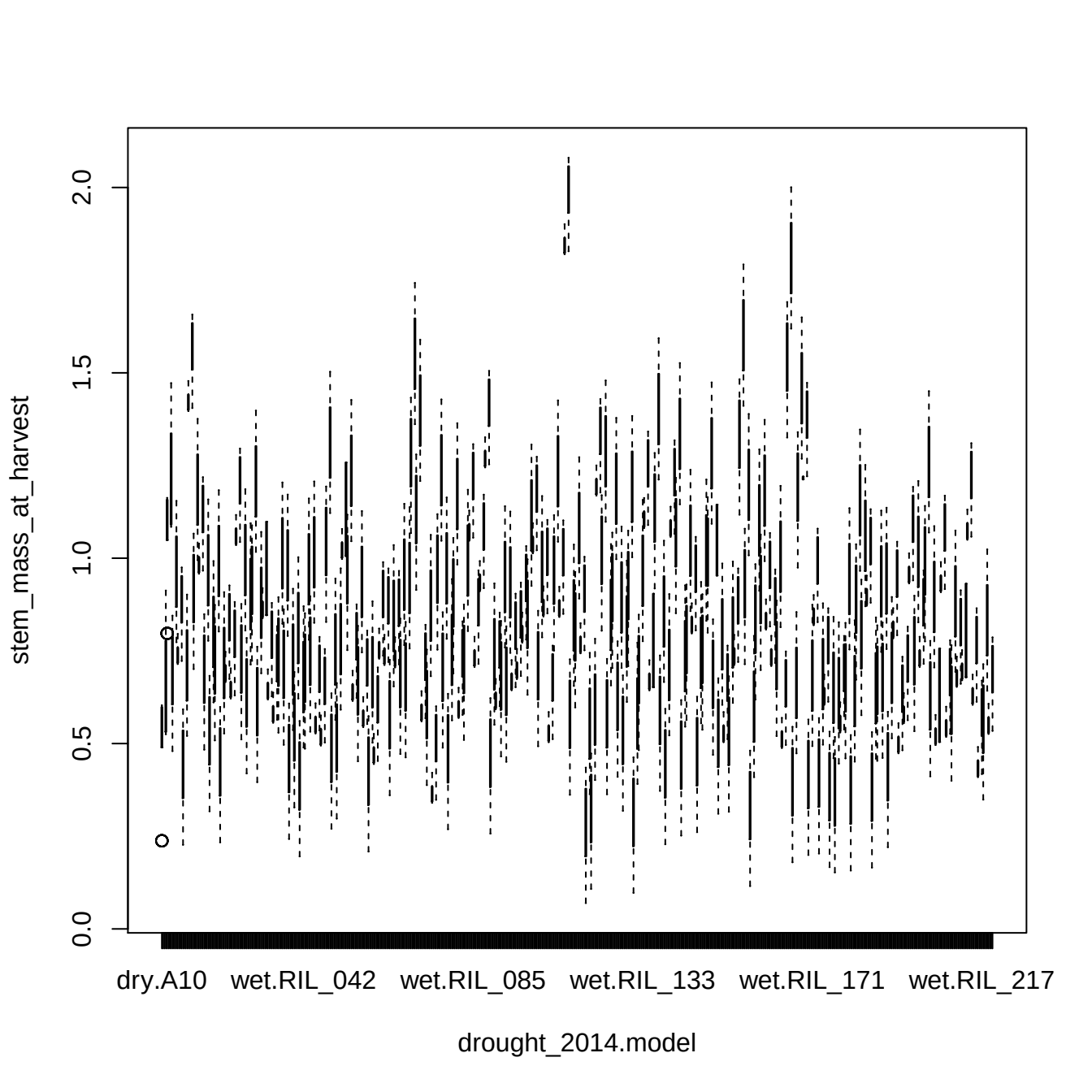

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
1.0
0.5
0.0
−0.5
−1.0
−3
−2
−1
0
1
2
3

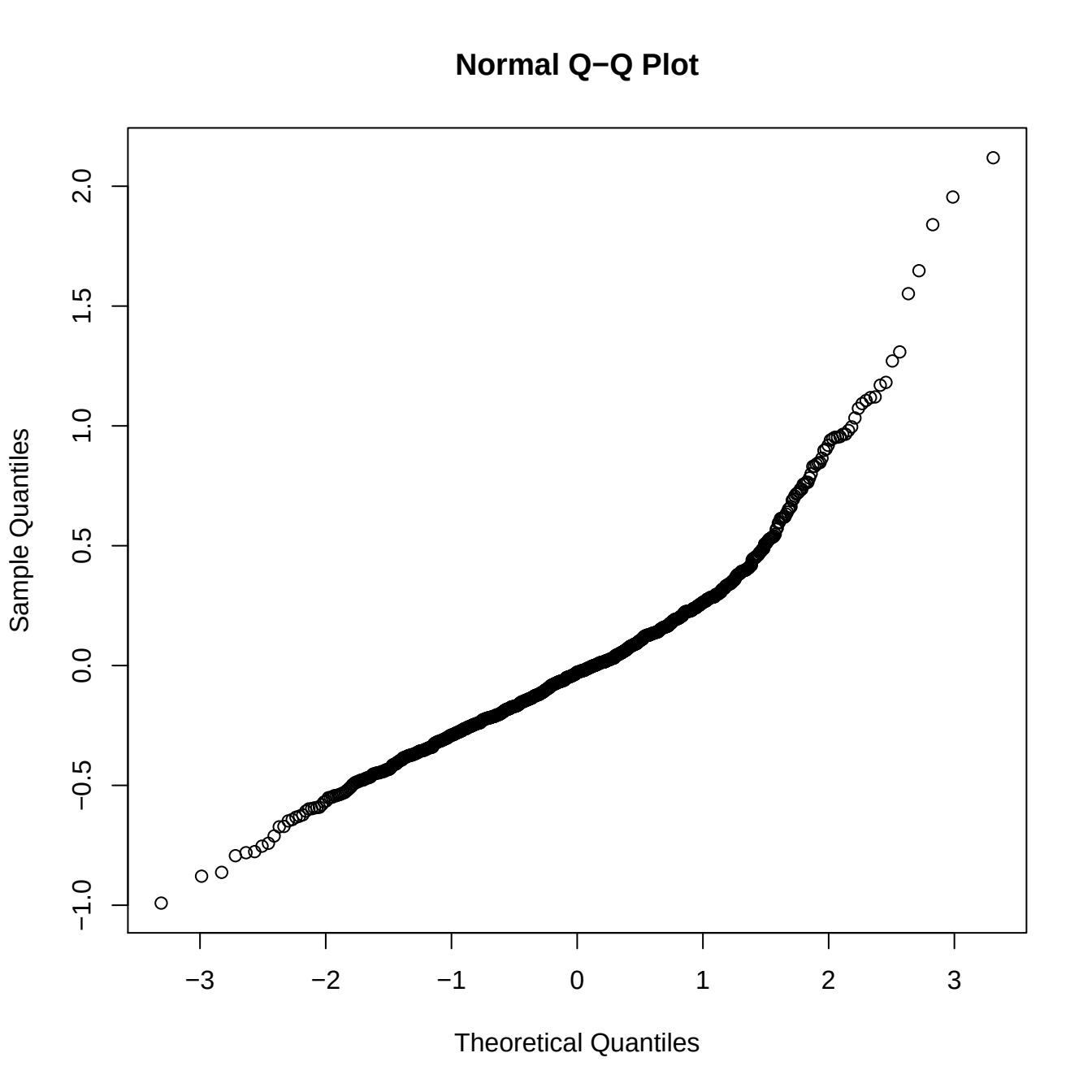

ril.data$residual
1.0
0.5
0.0
−0.5
−1.0
0.5
1.0
1.5
2.0
ril.data$predicted

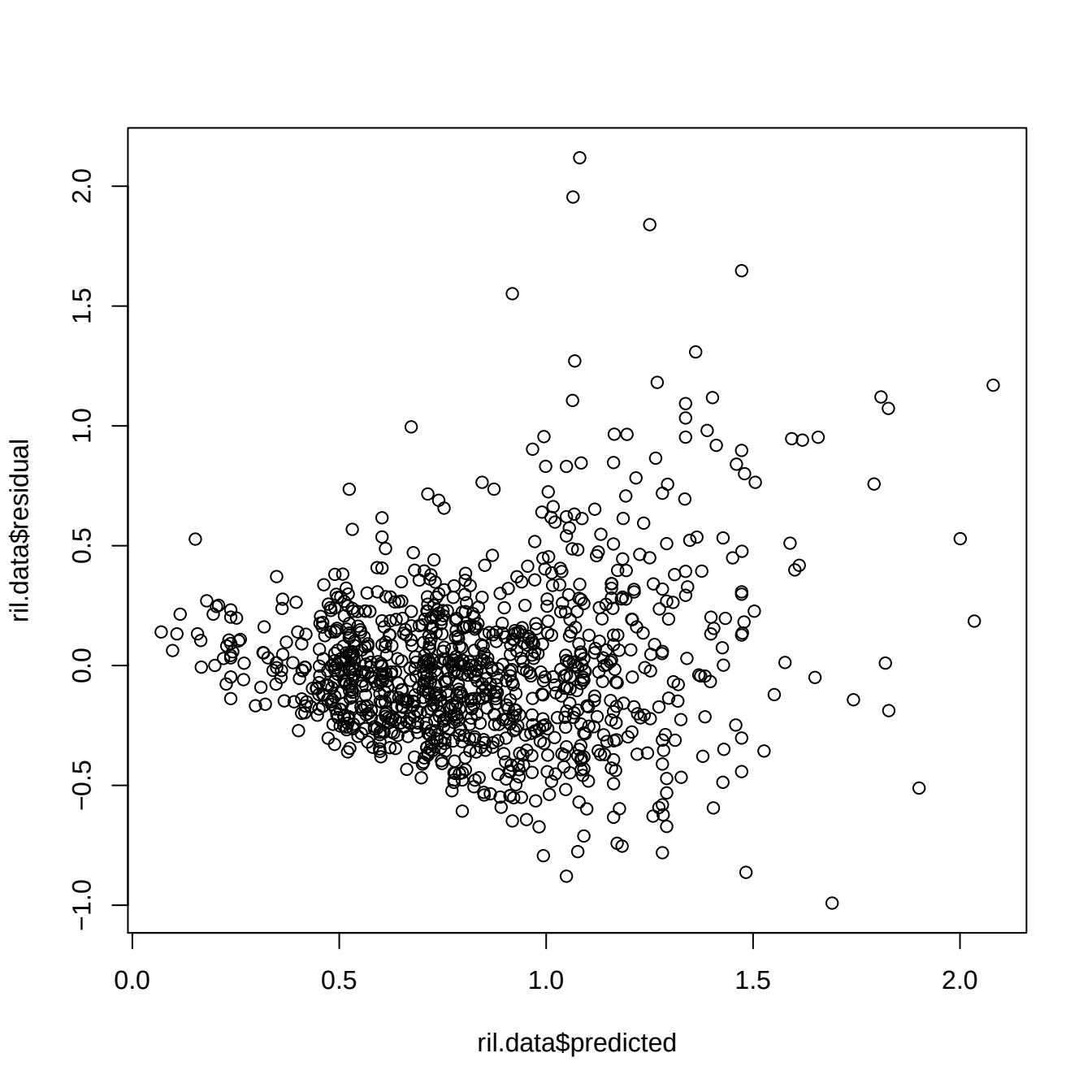

SLA
200
220
240
260
280
300
320
dry.A10
wet.RIL_041
dry.RIL_082
dry.RIL_133
dry.RIL_170
dry.RIL_215
drought_2014.model

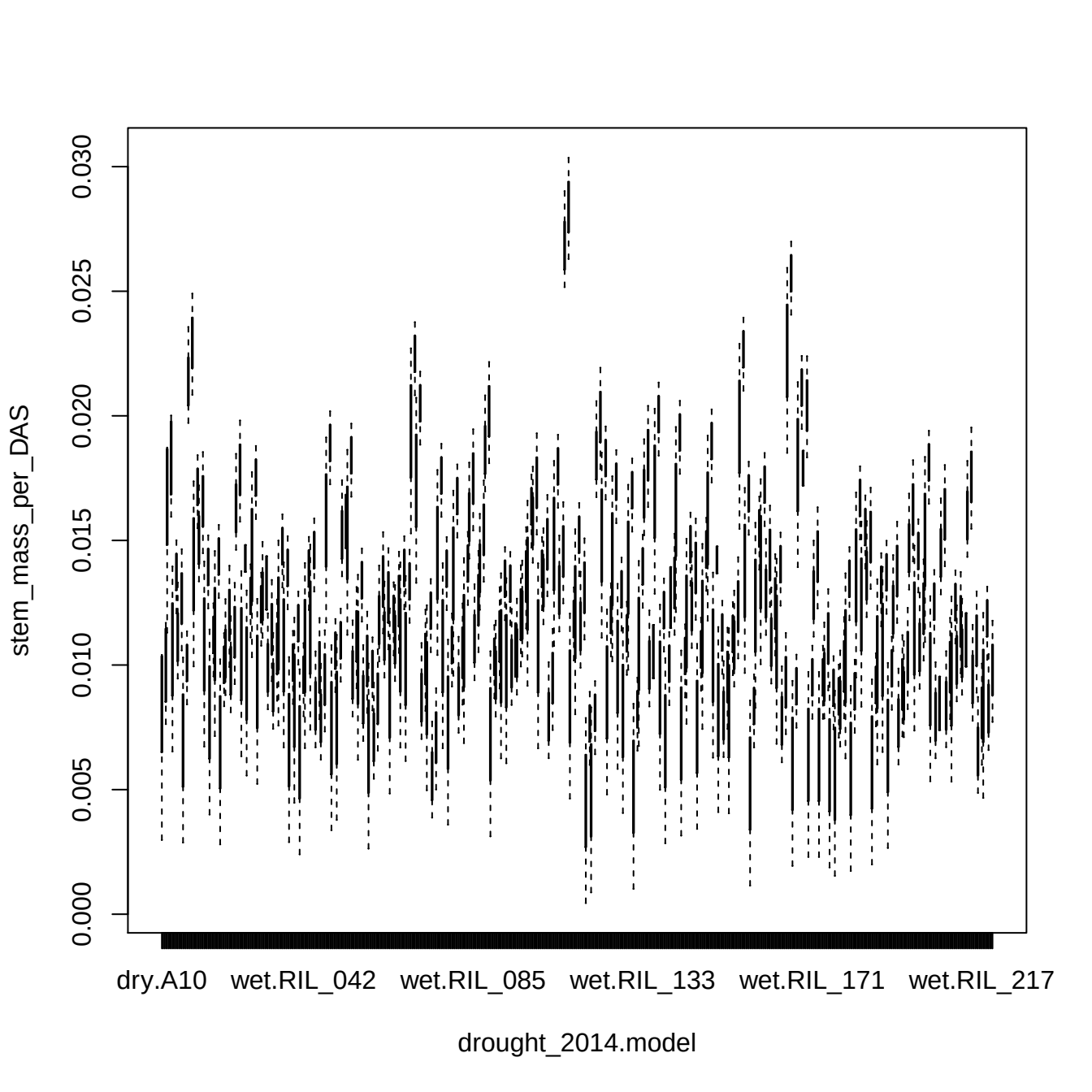

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
100
50
0
−50
−3
−2
−1
0
1
2
3

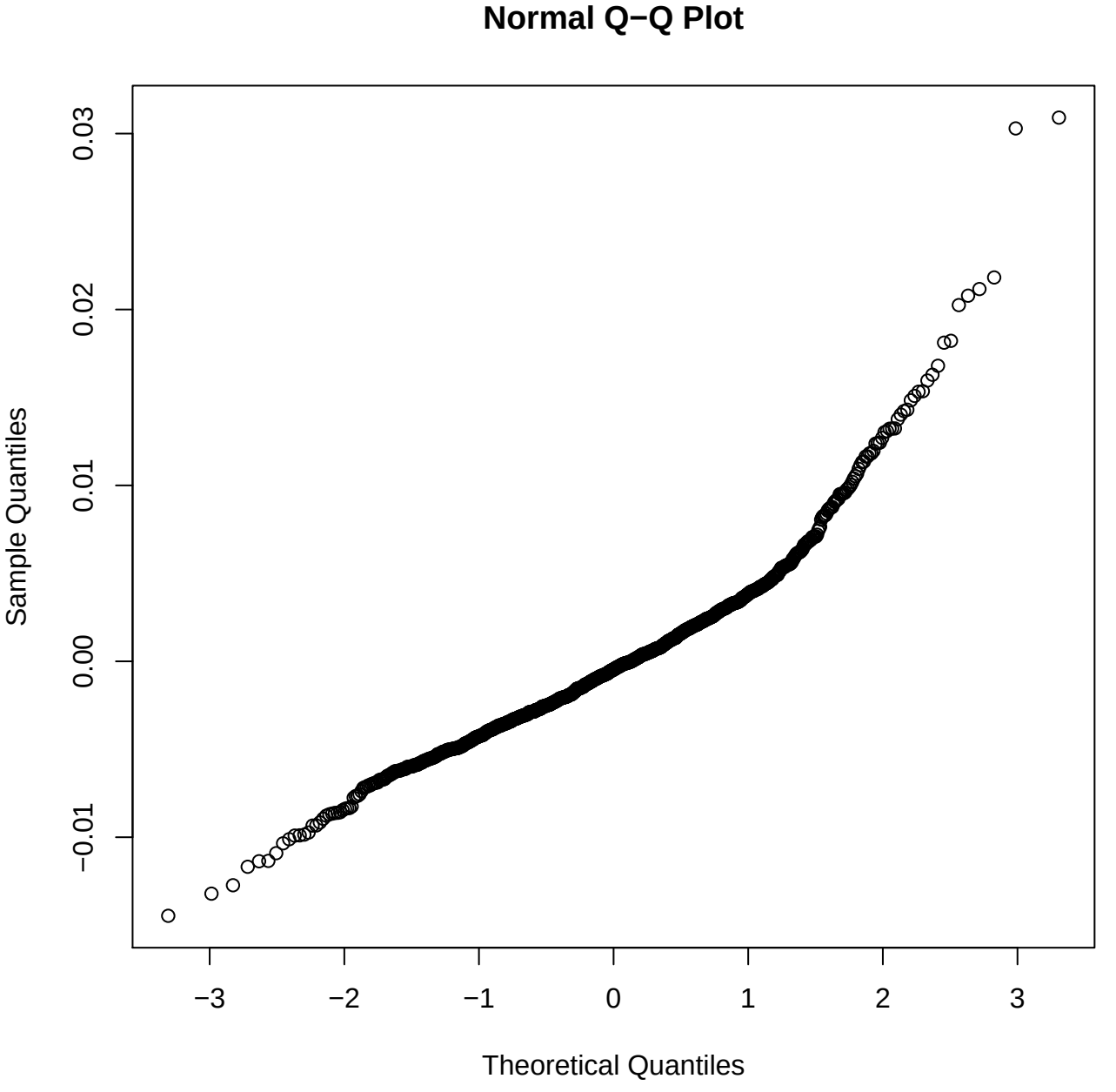

ril.data$residual
100
50
0
−50
200
220
240
260
280
300
320
ril.data$predicted

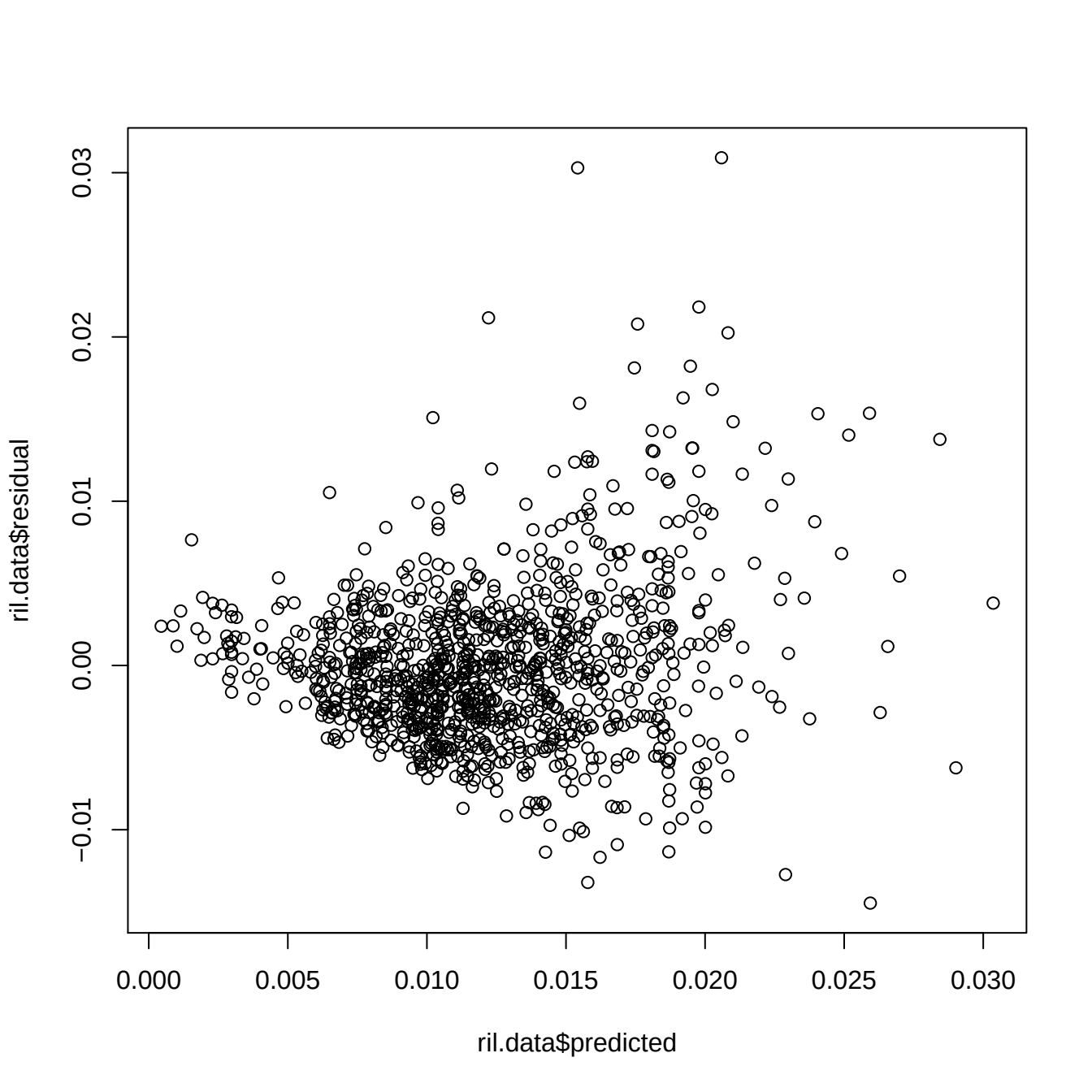

stem_mass_at_harvest
0.0
0.5
1.0
1.5
2.0
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

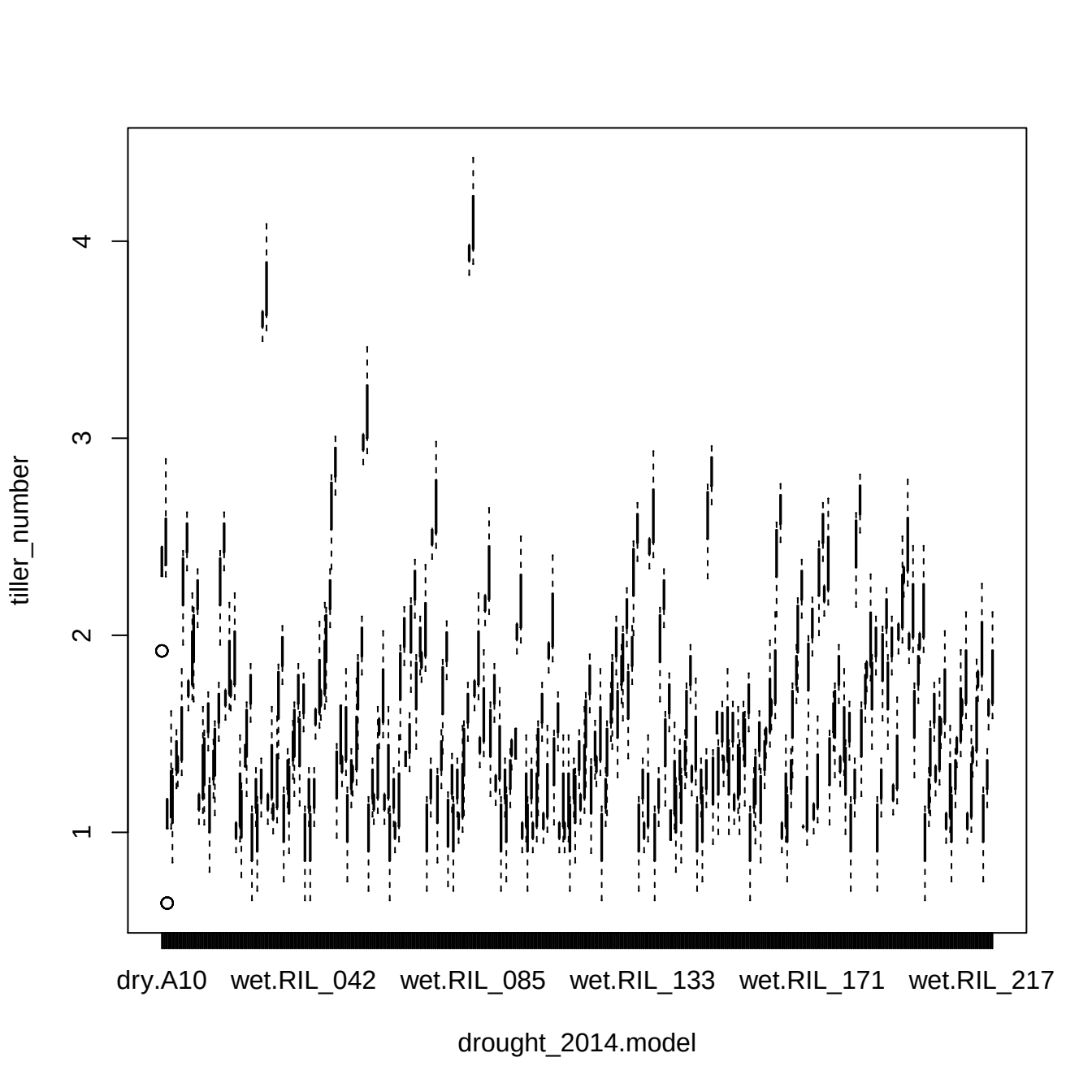

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
−3
−2
−1
0
1
2
3

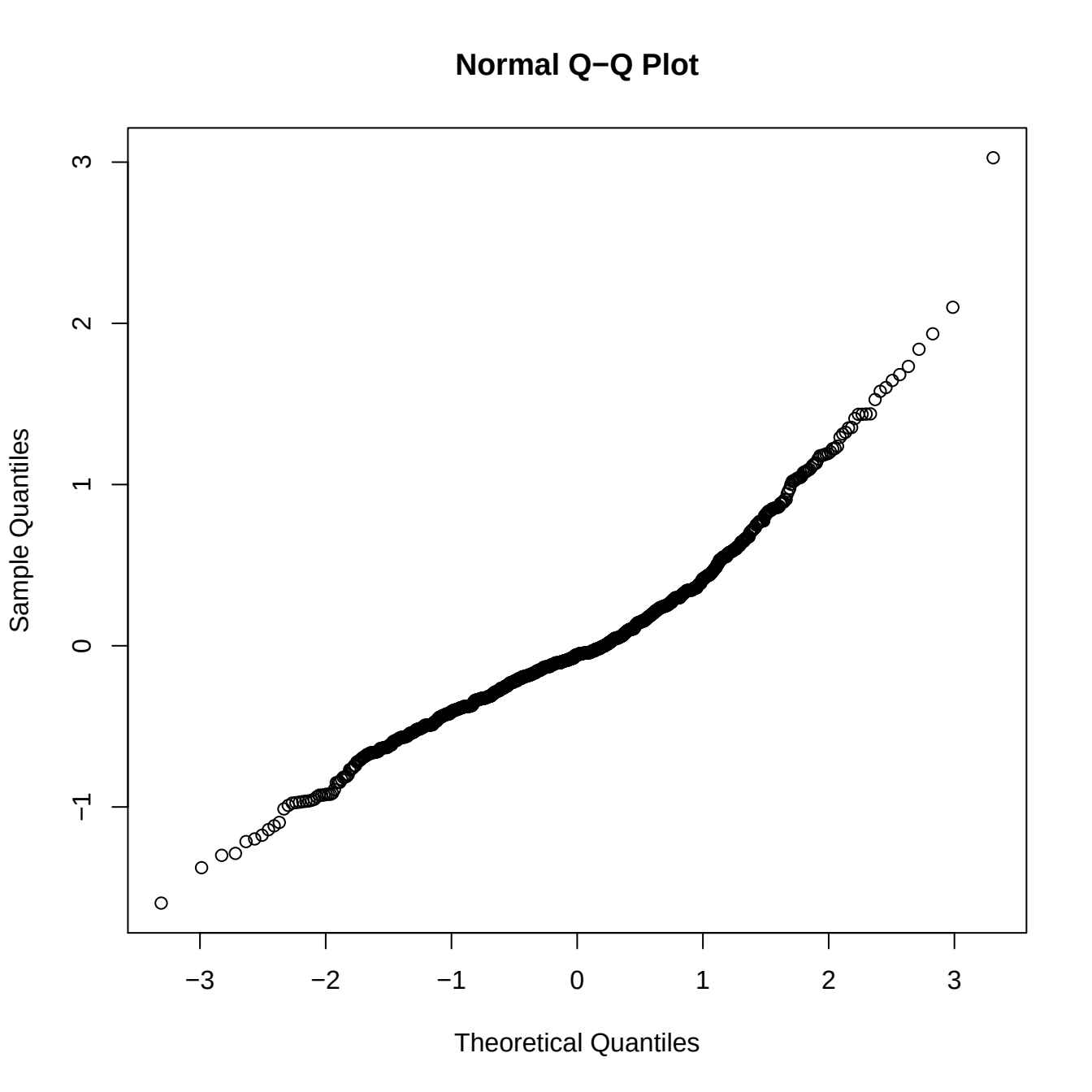

ril.data$residual
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
0.0
0.5
1.0
1.5
2.0
ril.data$predicted

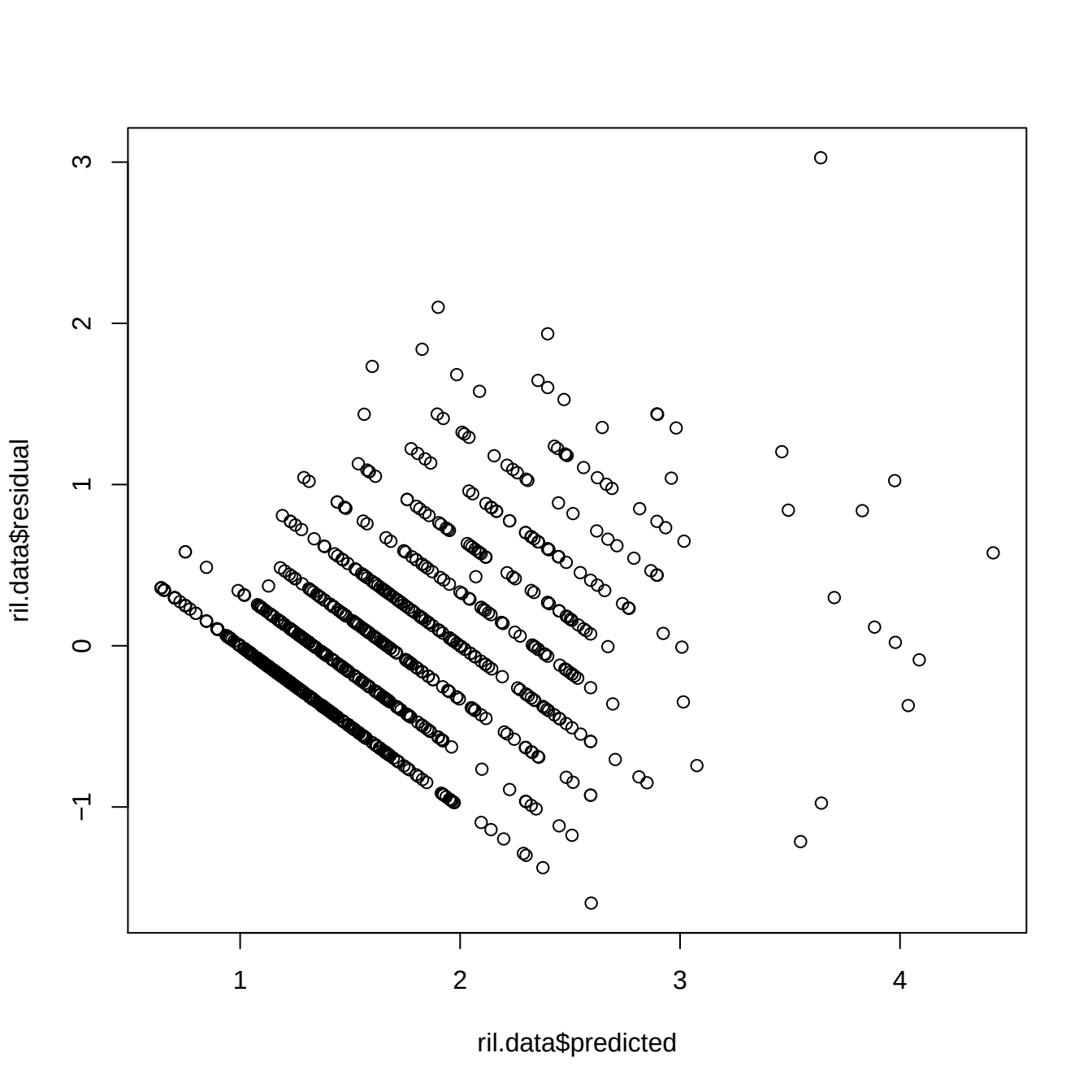

stem_mass_per_DAS
0.000
0.005
0.010
0.015
0.020
0.025
0.030
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

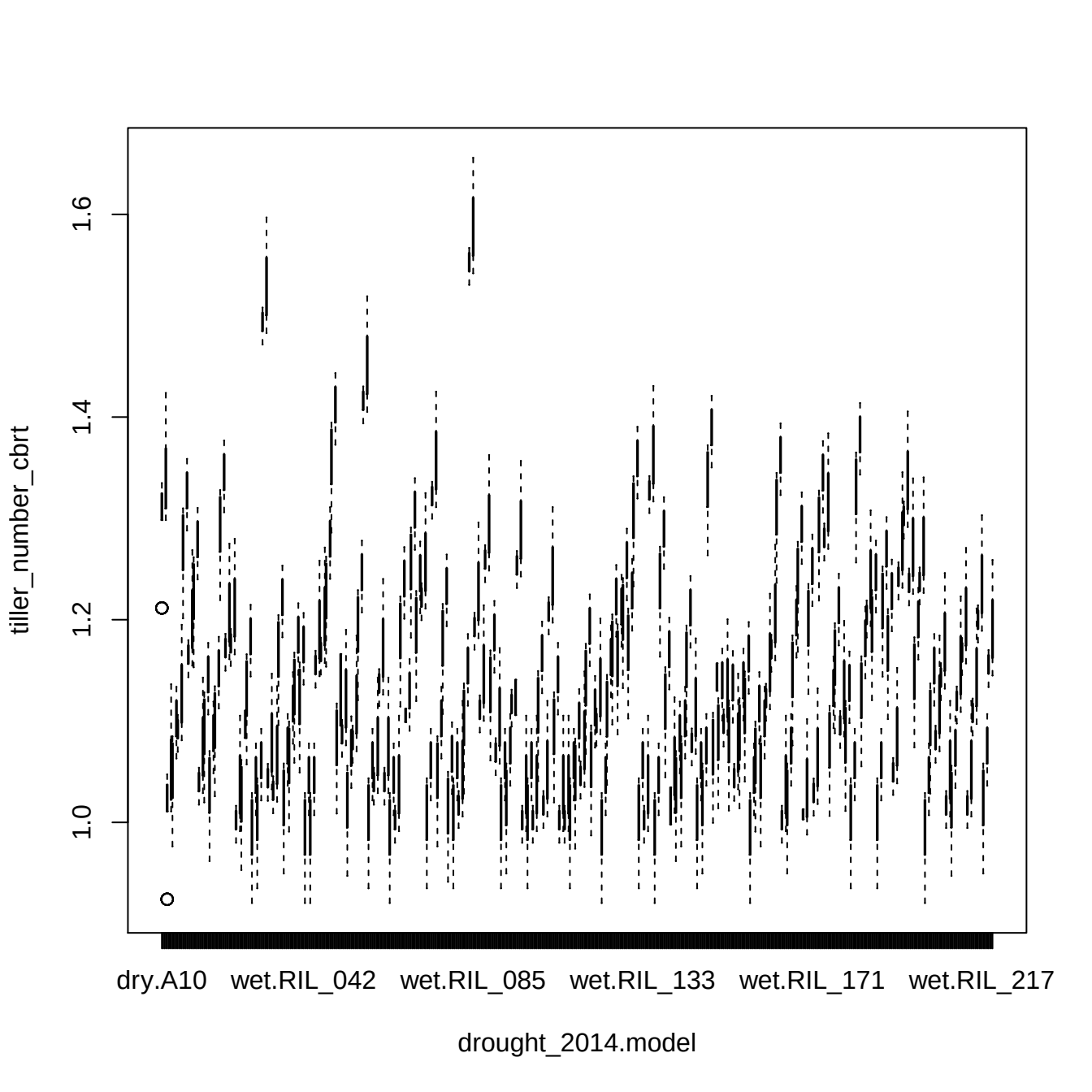

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.03
0.02
0.01
0.00
−0.01
−3
−2
−1
0
1
2
3

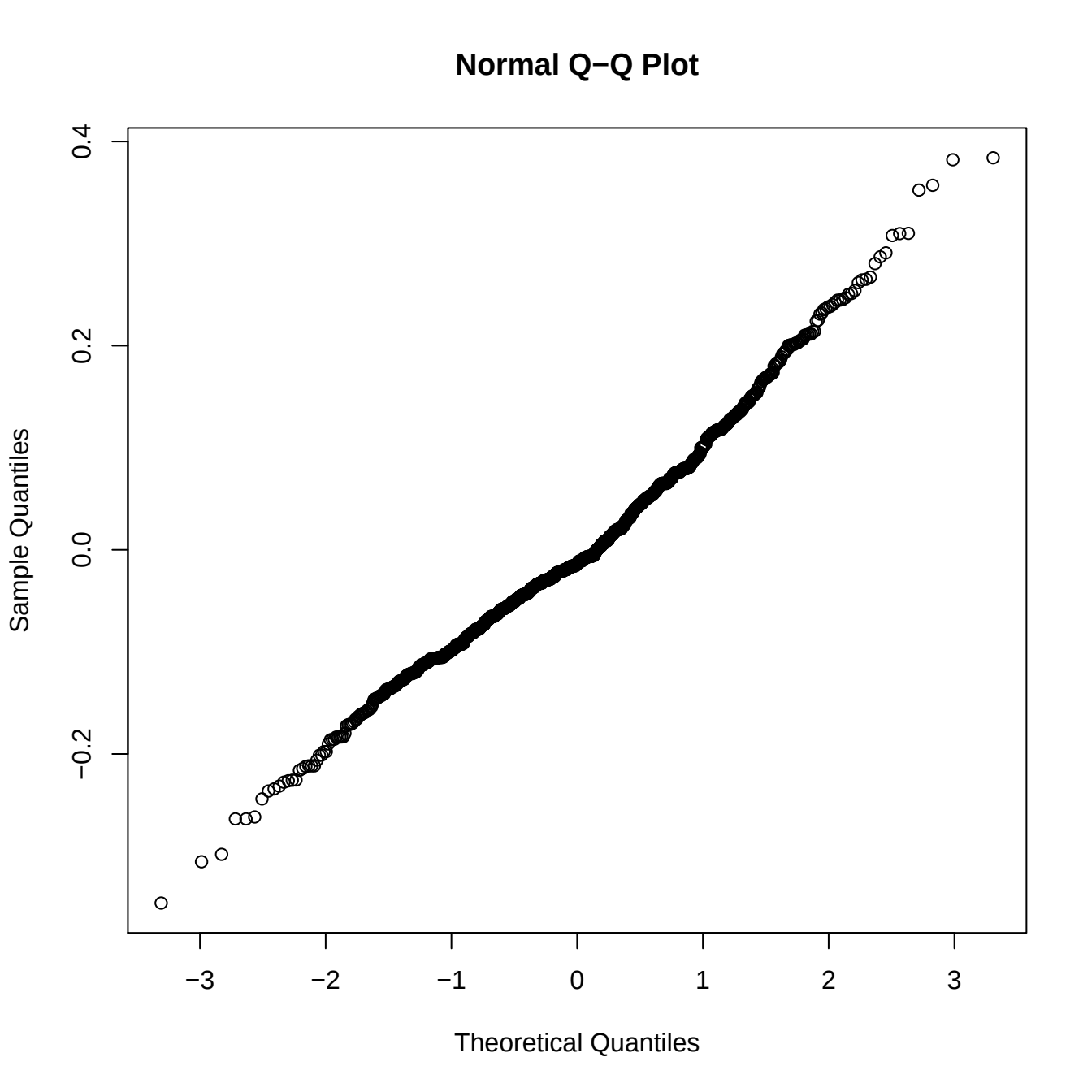

ril.data$residual
0.03
0.02
0.01
0.00
−0.01
0.000
0.005
0.010
0.015
0.020
0.025
0.030
ril.data$predicted

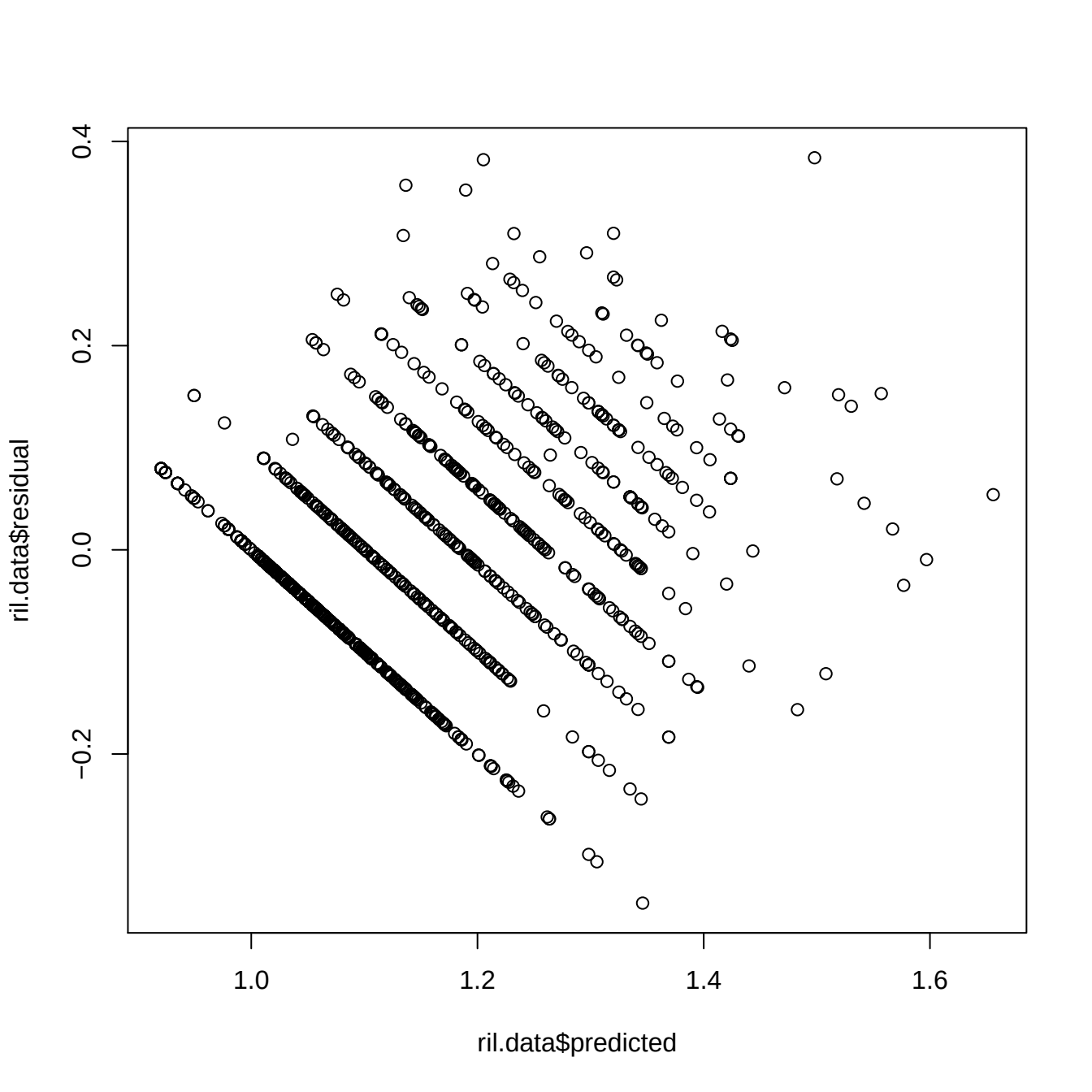

tiller_number
1
2
3
4
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

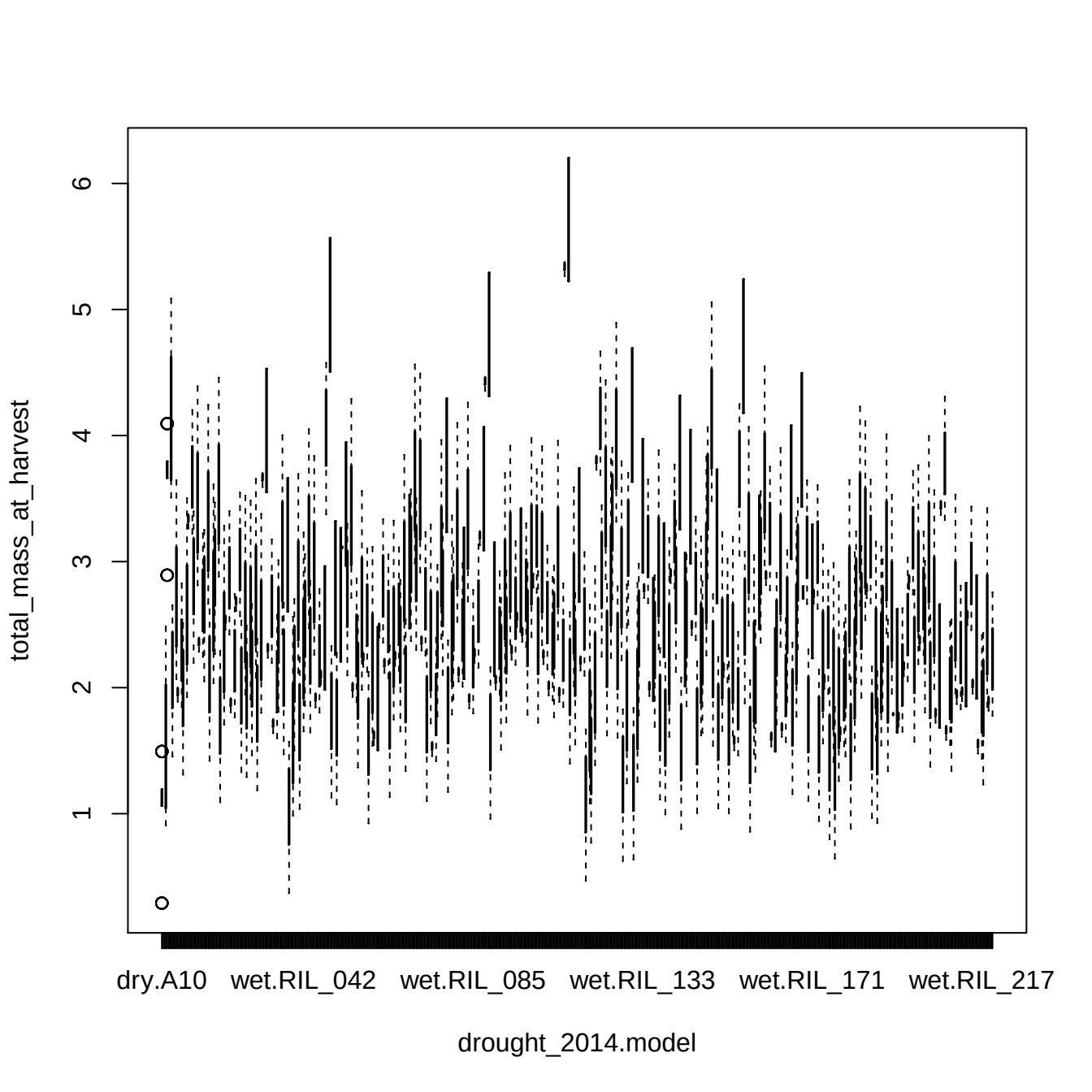

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
3
2
1
0
−1
−3
−2
−1
0
1
2
3

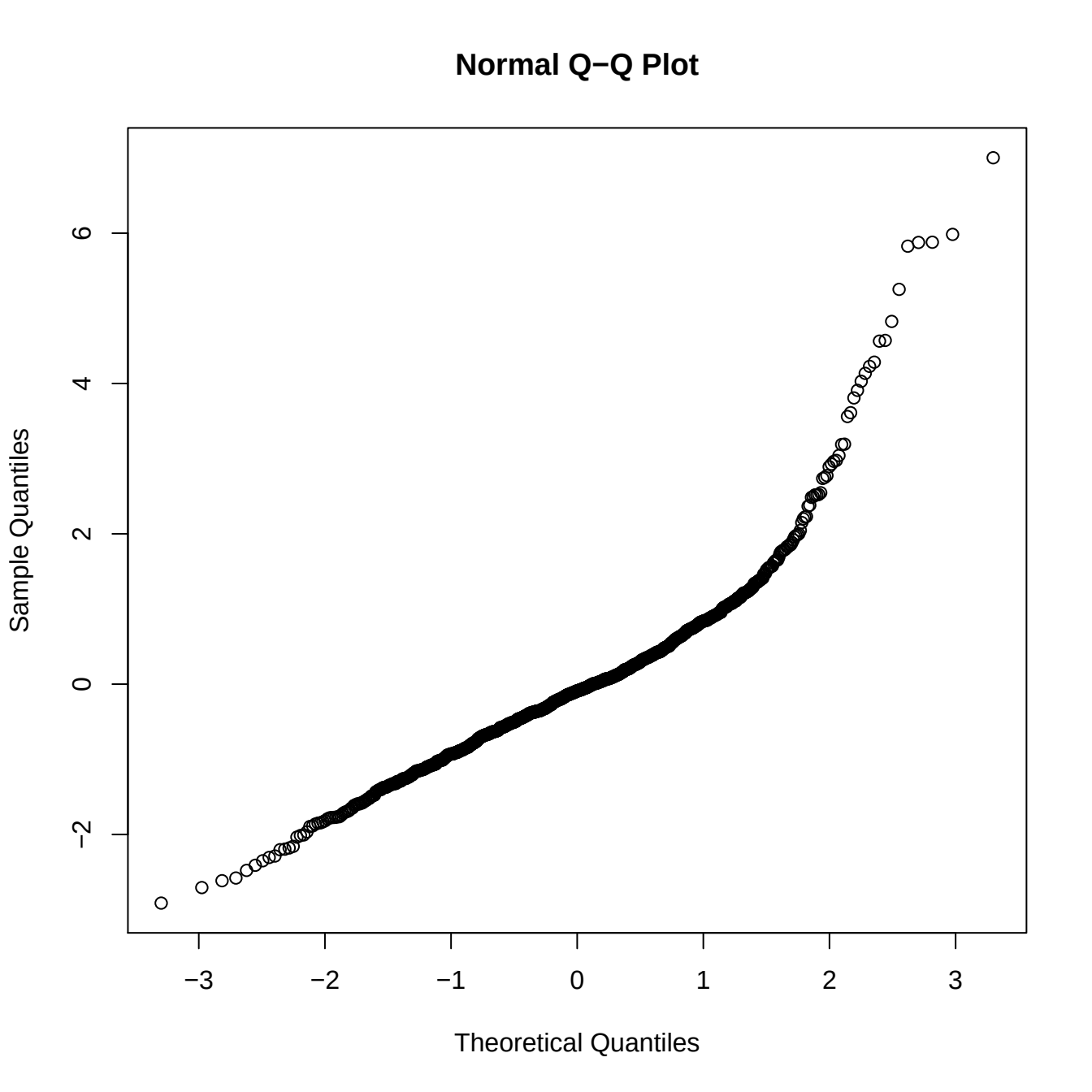

ril.data$residual
ril.data$predicted
3
2
1
0
−1
1
2
3
4

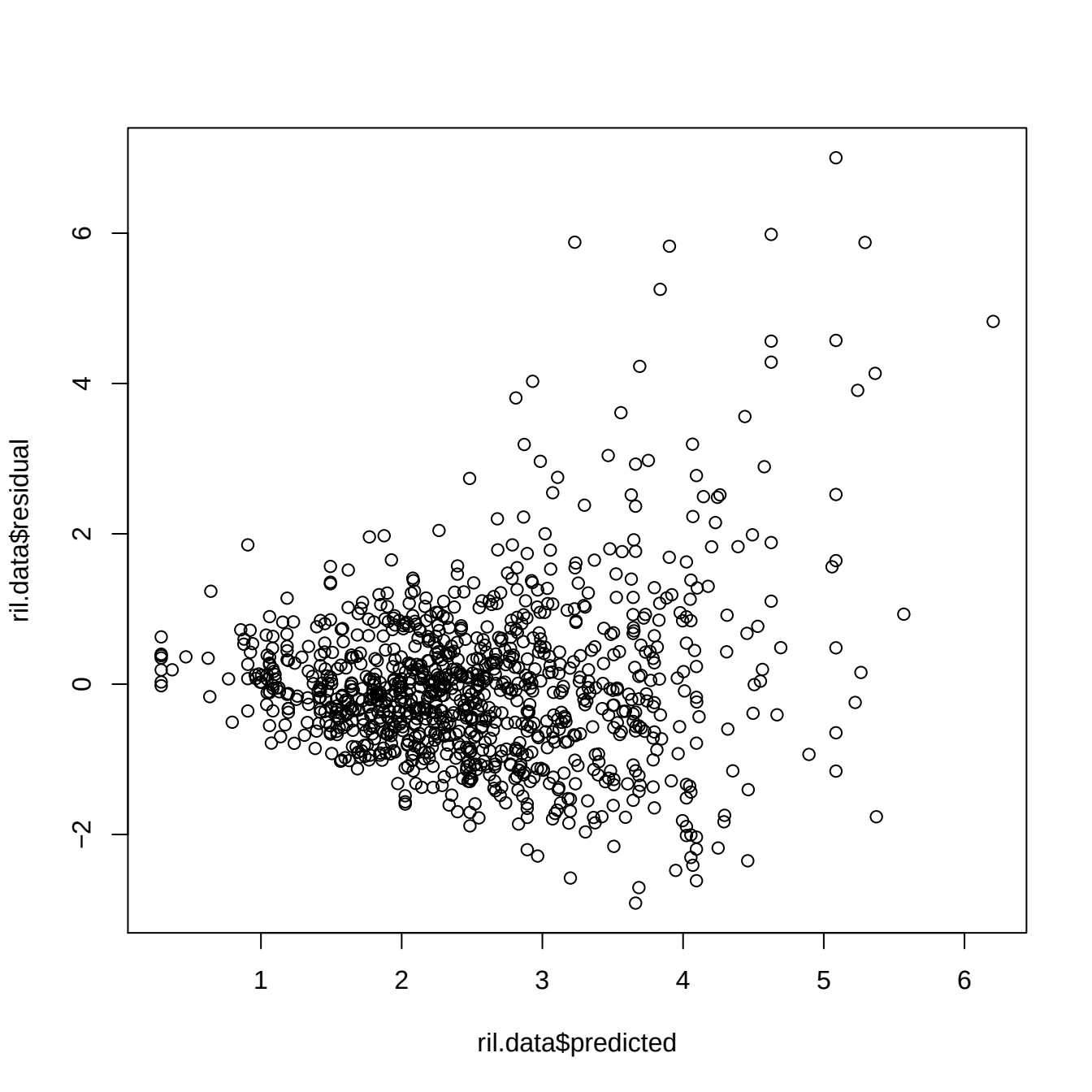

tiller_number_cbrt
1.0
1.2
1.4
1.6
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

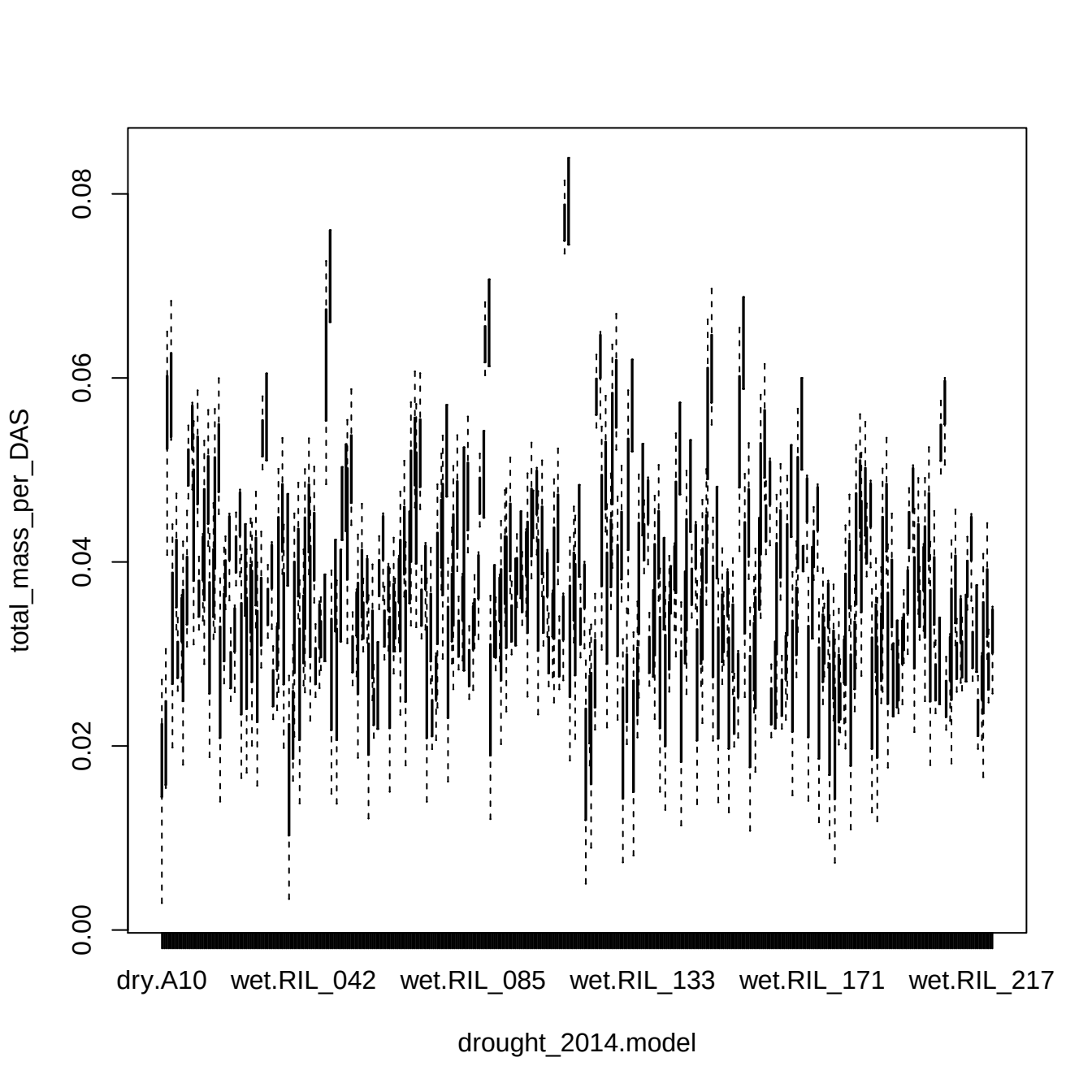

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.4
0.2
0.0
−0.2
−3
−2
−1
0
1
2
3

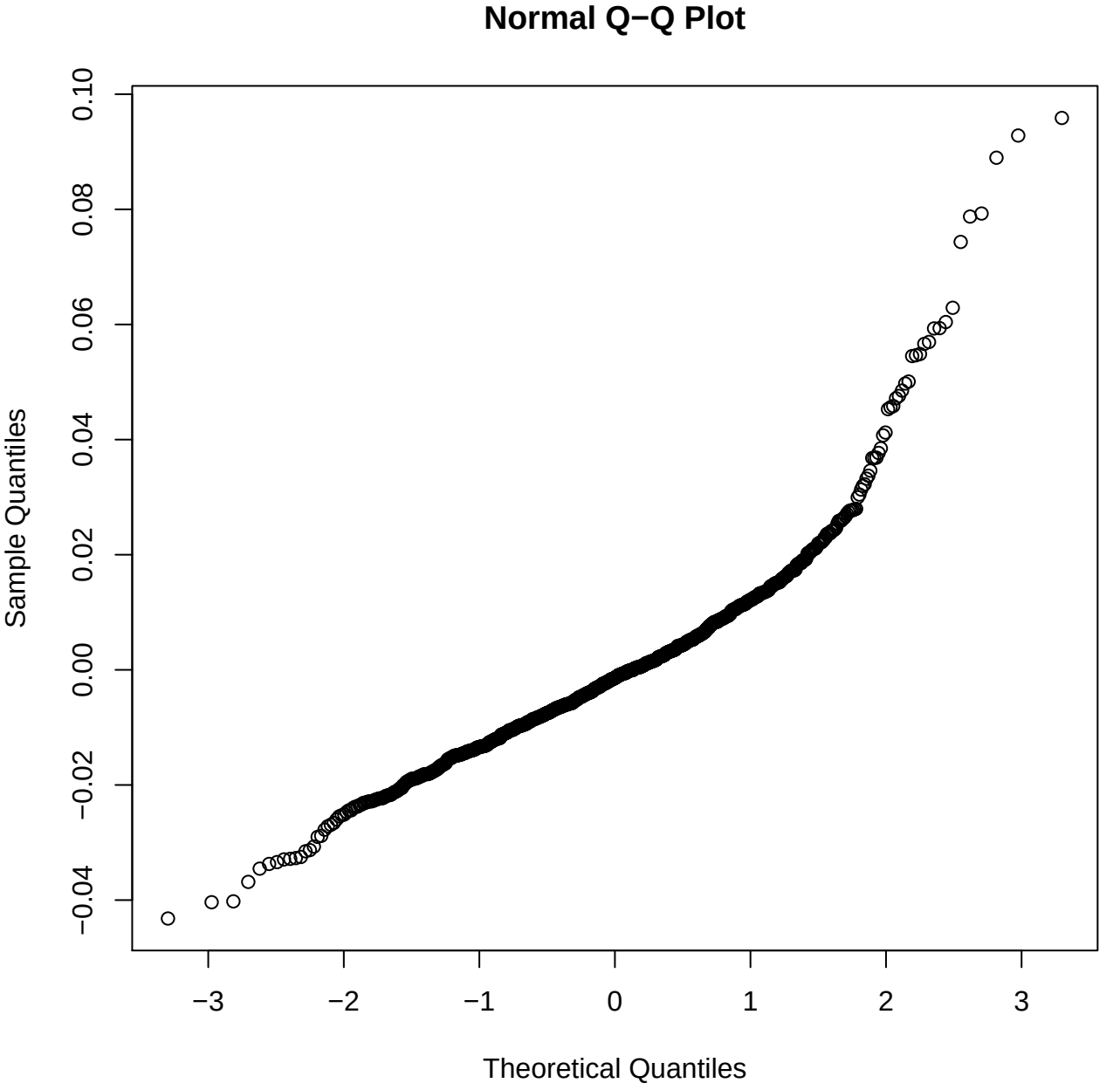

ril.data$residual
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
ril.data$predicted

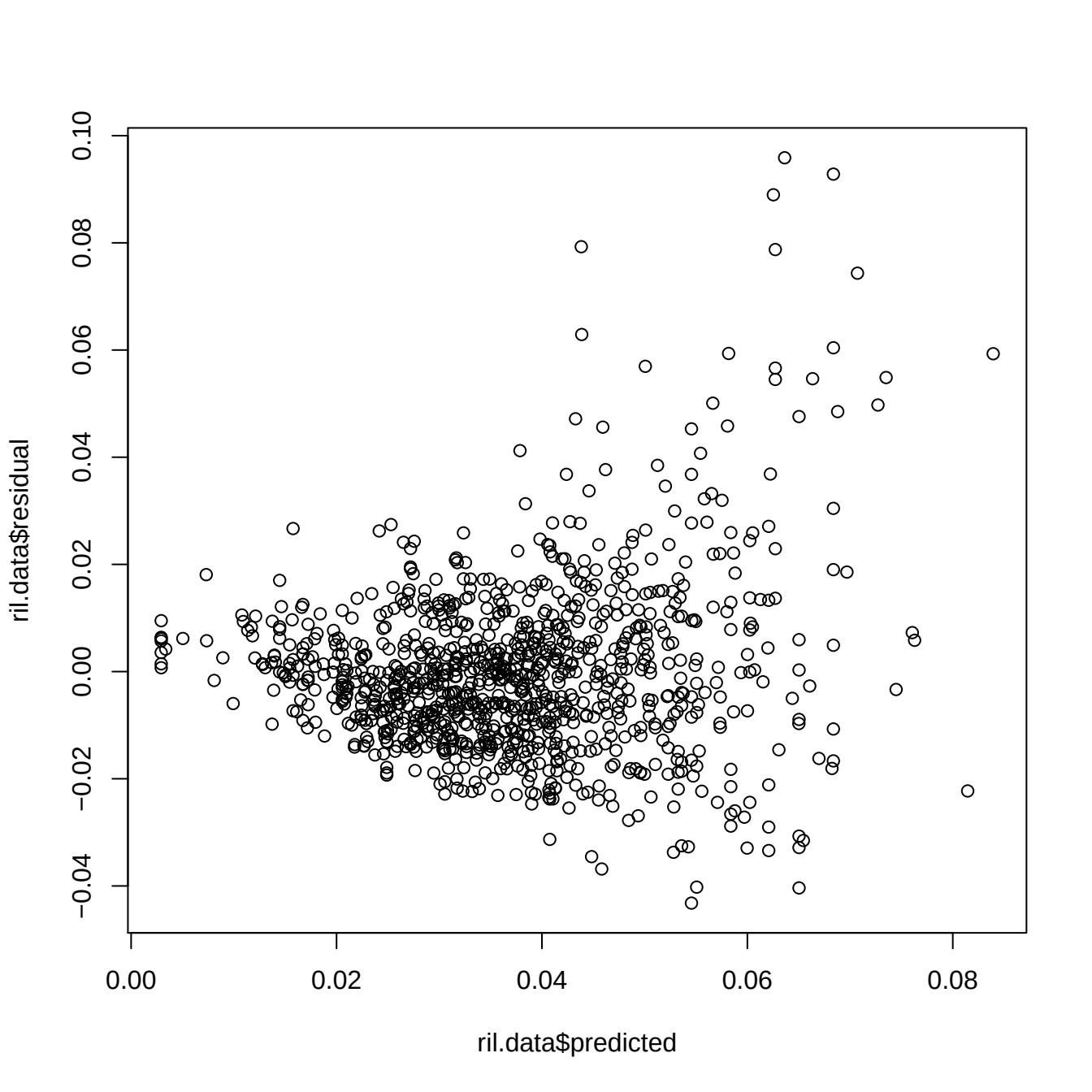

total_mass_at_harvest
1
2
3
4
5
6
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

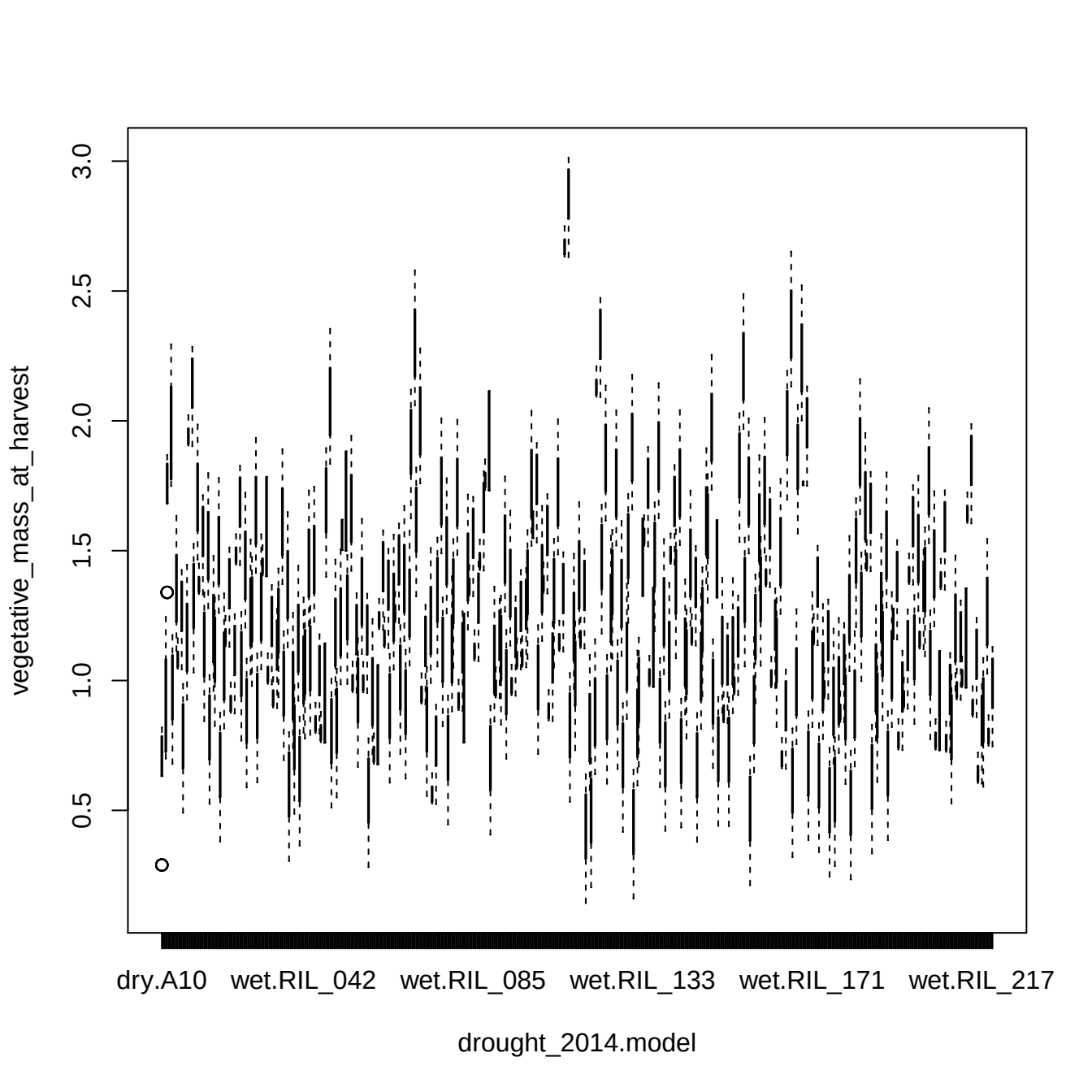

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−3
−2
−1
0
1
2
3
−2
0
2
4
6

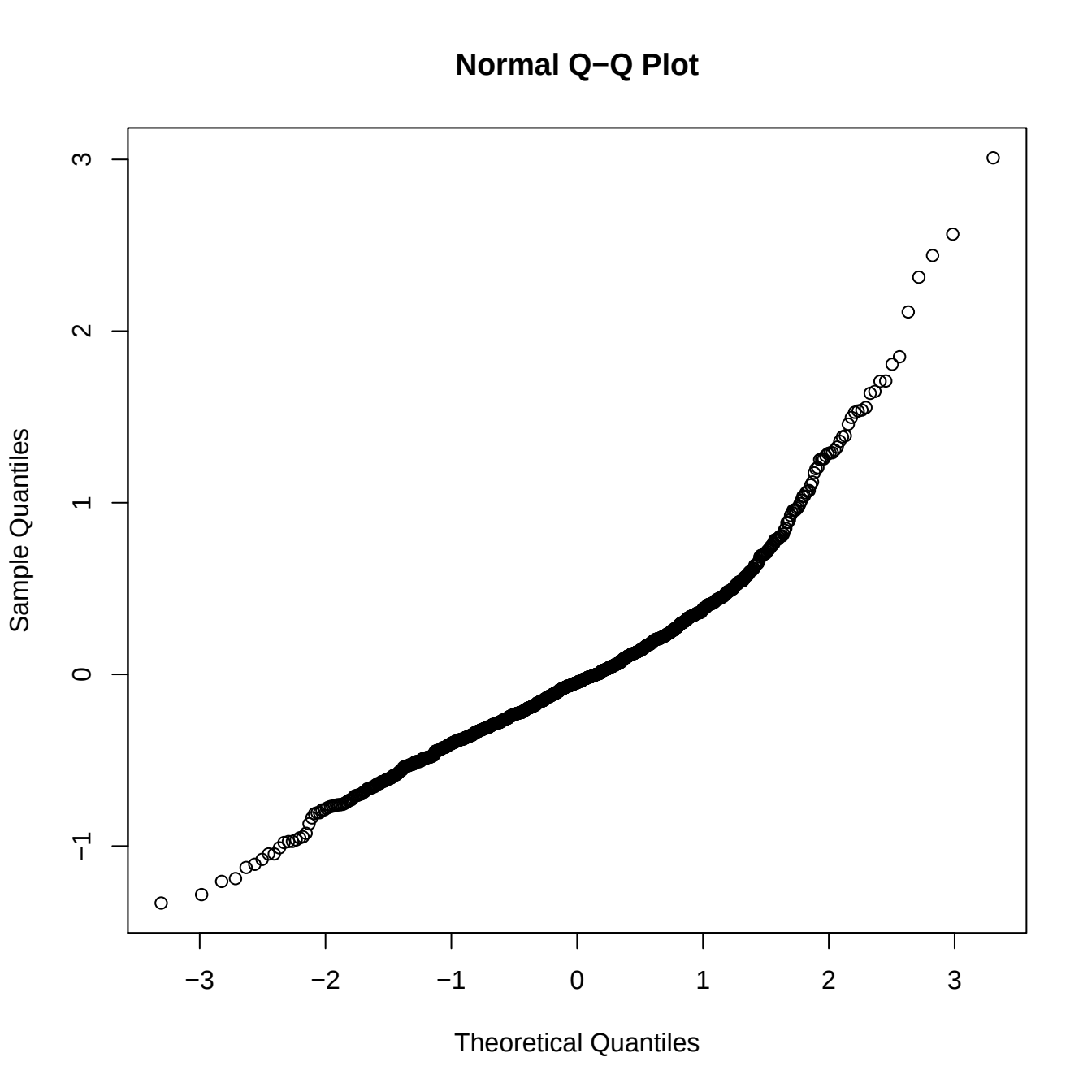

ril.data$residual
6
4
2
0
−2
1
2
3
4
5
6
ril.data$predicted

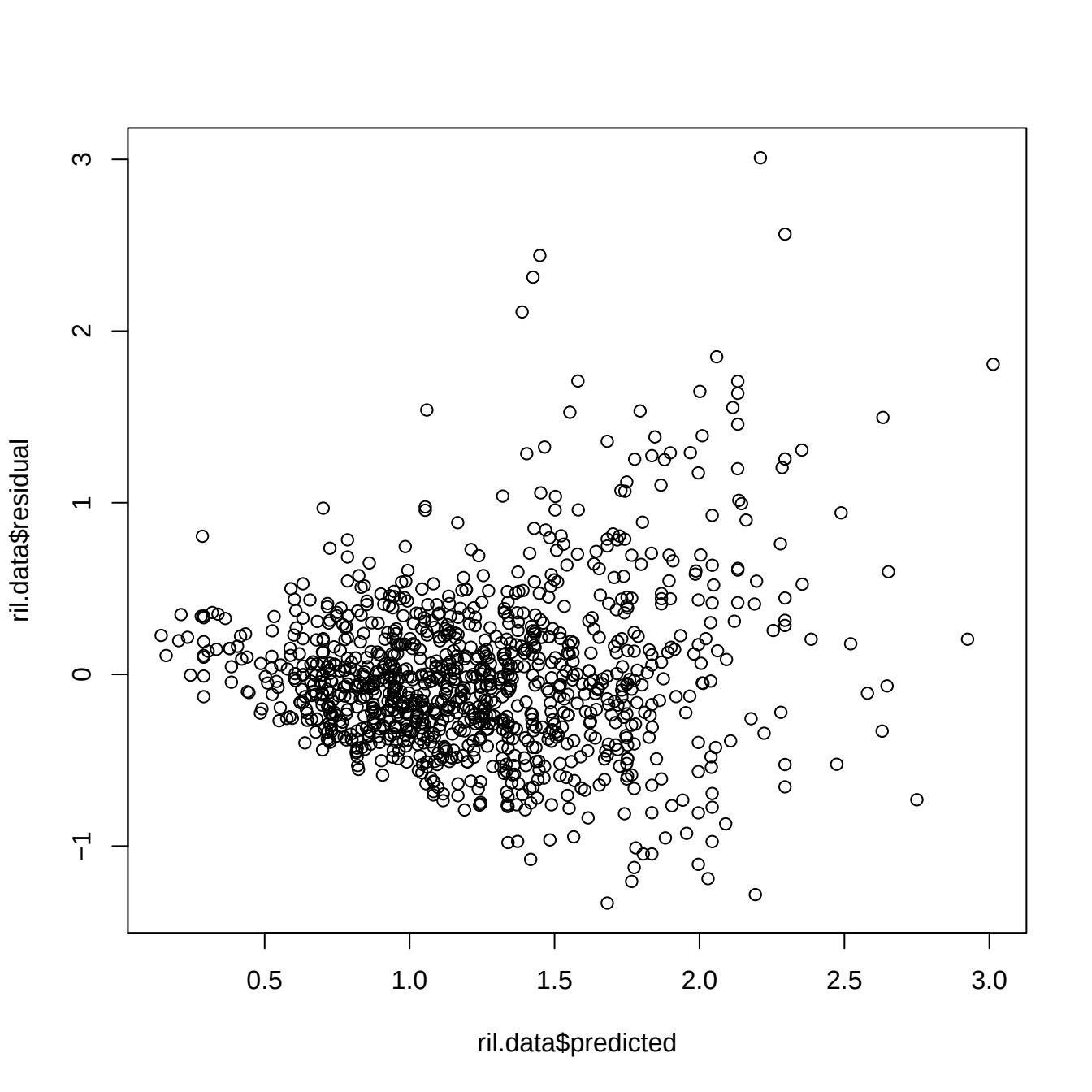

total_mass_per_DAS
0.00
0.02
0.04
0.06
0.08
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model

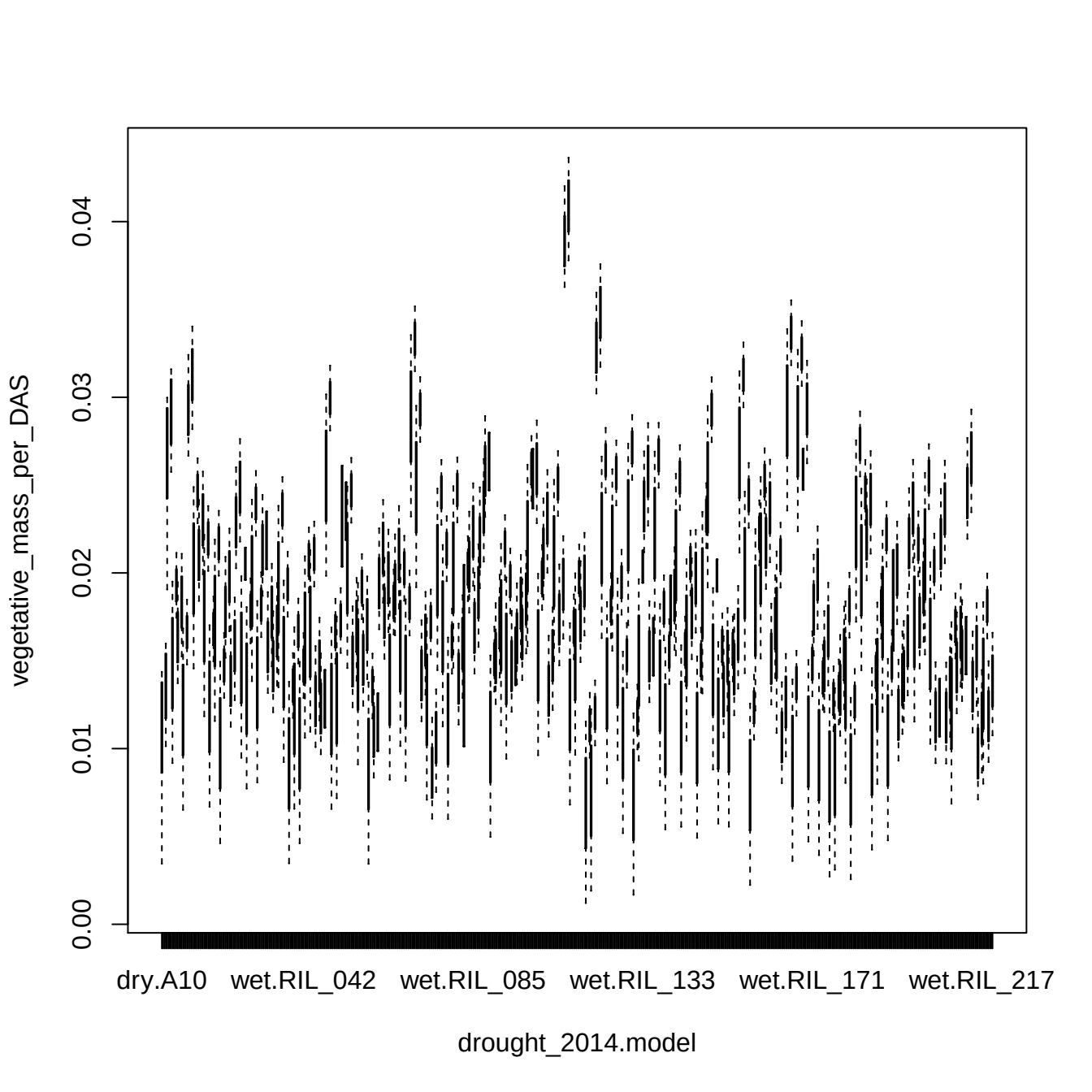

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.10
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
−3
−2
−1
0
1
2
3

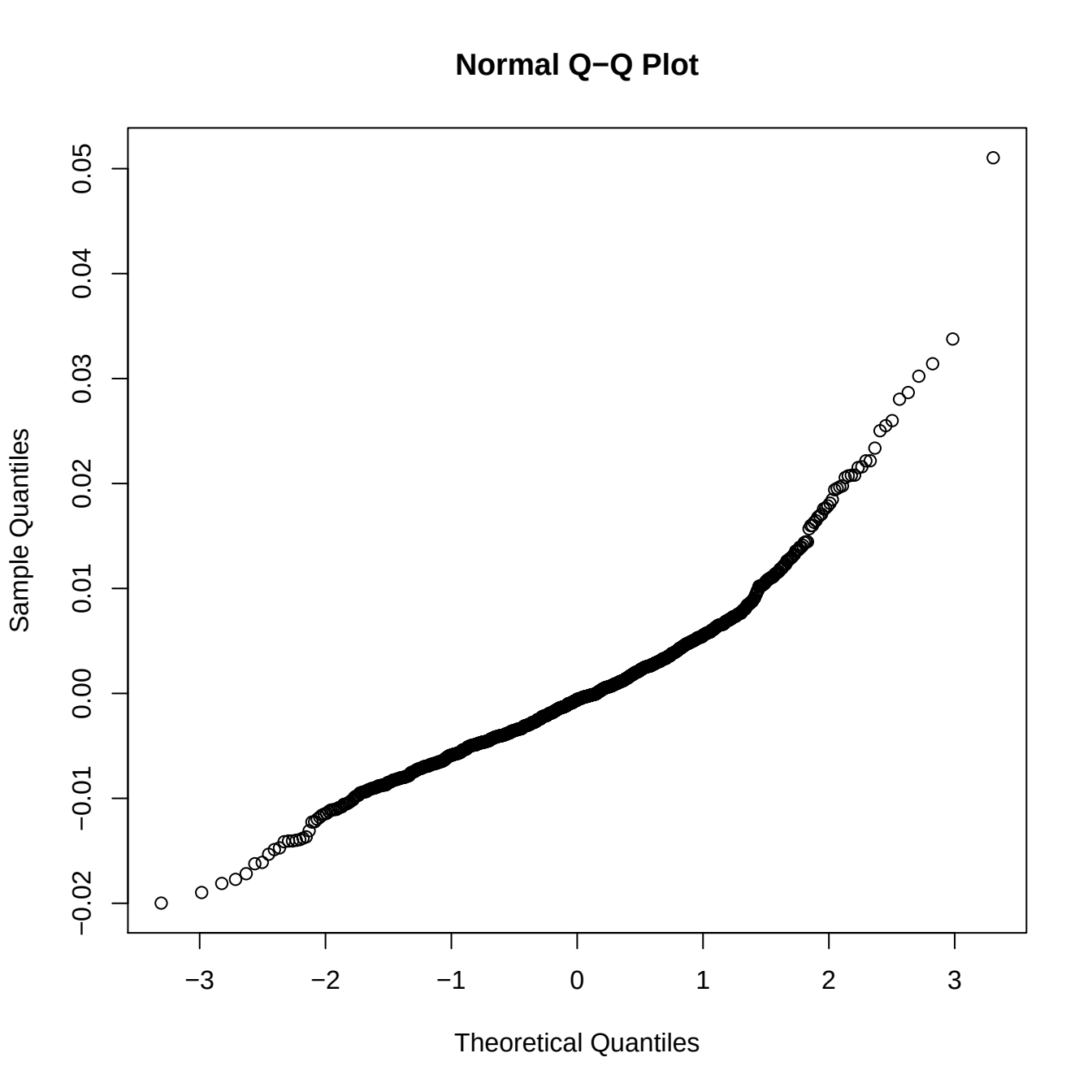

ril.data$residual
0.10
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
0.00
0.02
0.04
0.06
0.08
ril.data$predicted

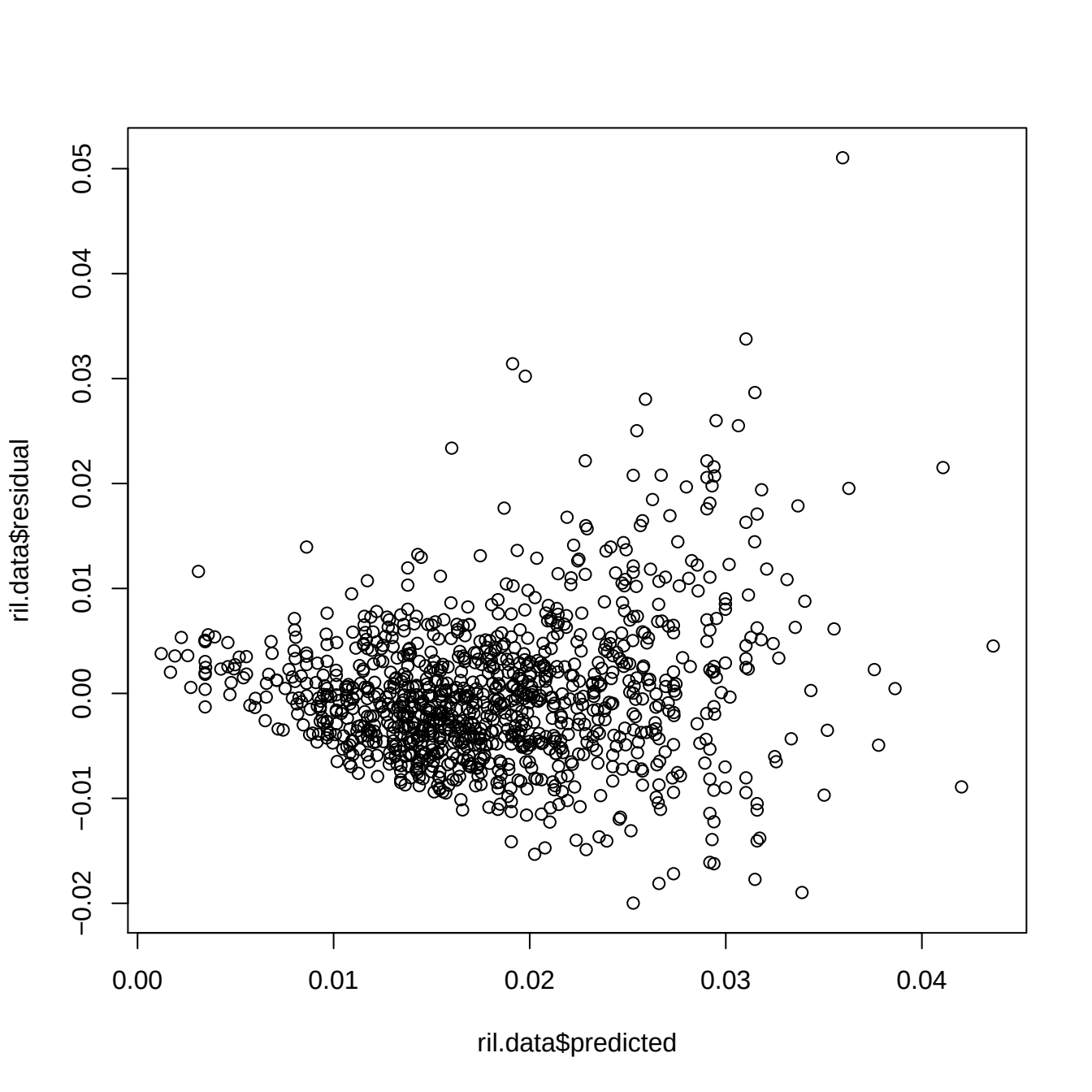

vegetative_mass_at_harvest
0.5
1.0
1.5
2.0
2.5
3.0
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model


Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
3
2
1
0
−1
−3
−2
−1
0
1
2
3


ril.data$residual
3
2
1
0
−1
0.5
1.0
1.5
2.0
2.5
3.0
ril.data$predicted


vegetative_mass_per_DAS
0.00
0.01
0.02
0.03
0.04
dry.A10
wet.RIL_042
wet.RIL_085
wet.RIL_133
wet.RIL_171
wet.RIL_217
drought_2014.model


Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−0.02
−0.01
0.00
0.01
0.02
0.03
0.04
0.05
−3
−2
−1
0
1
2
3


ril.data$residual
0.05
0.04
0.03
0.02
0.01
0.00
−0.01
−0.02
0.00
0.01
0.02
0.03
0.04
ril.data$predicted