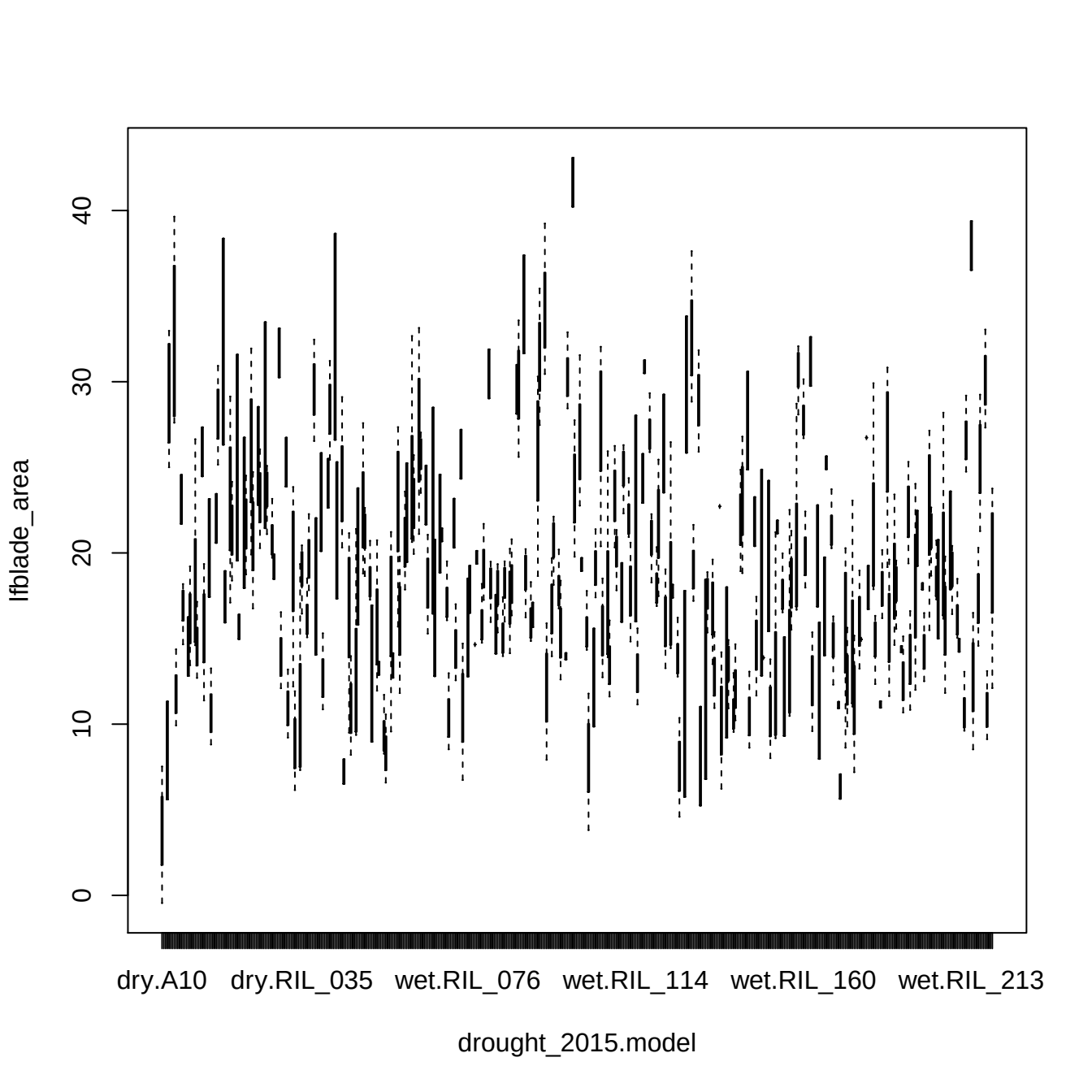
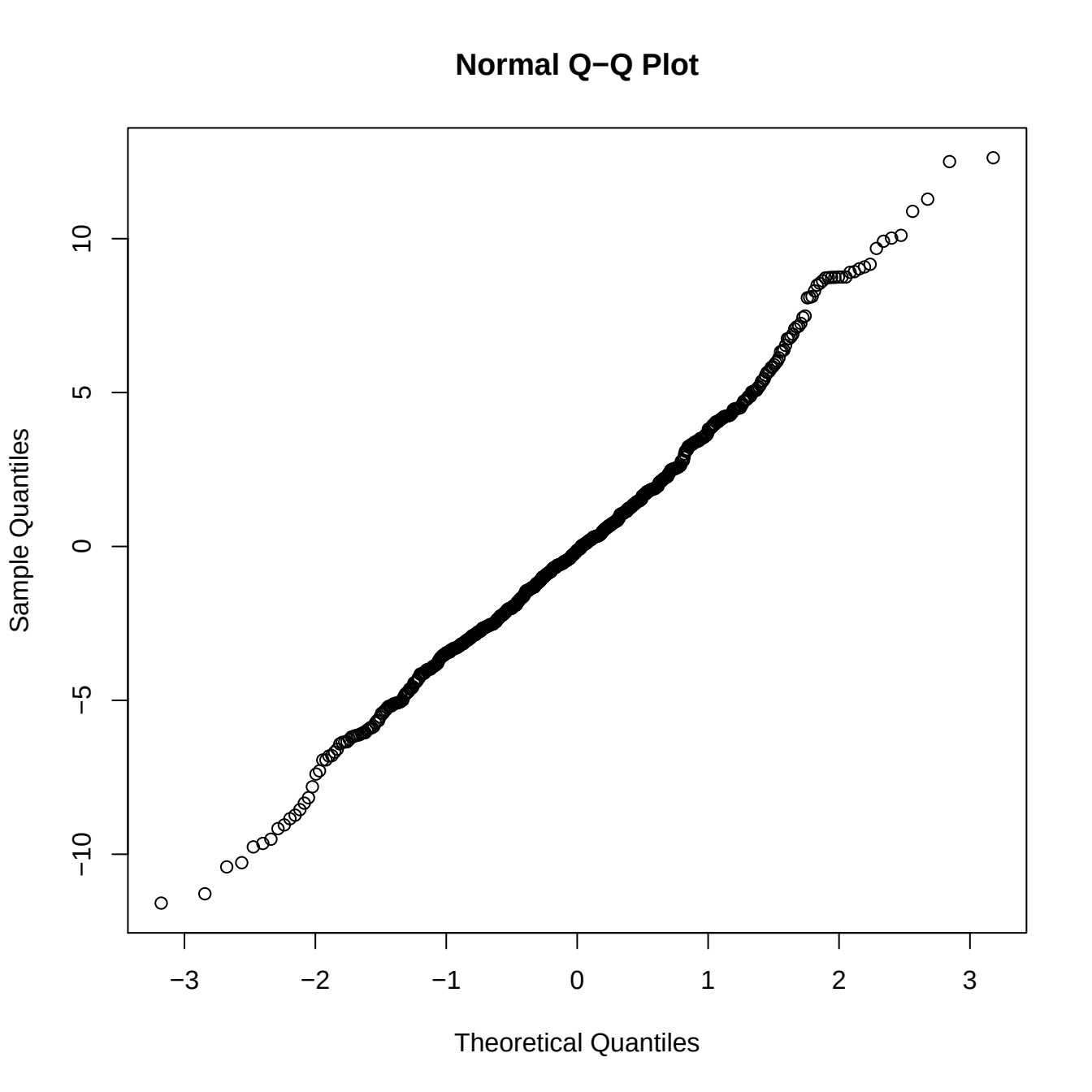
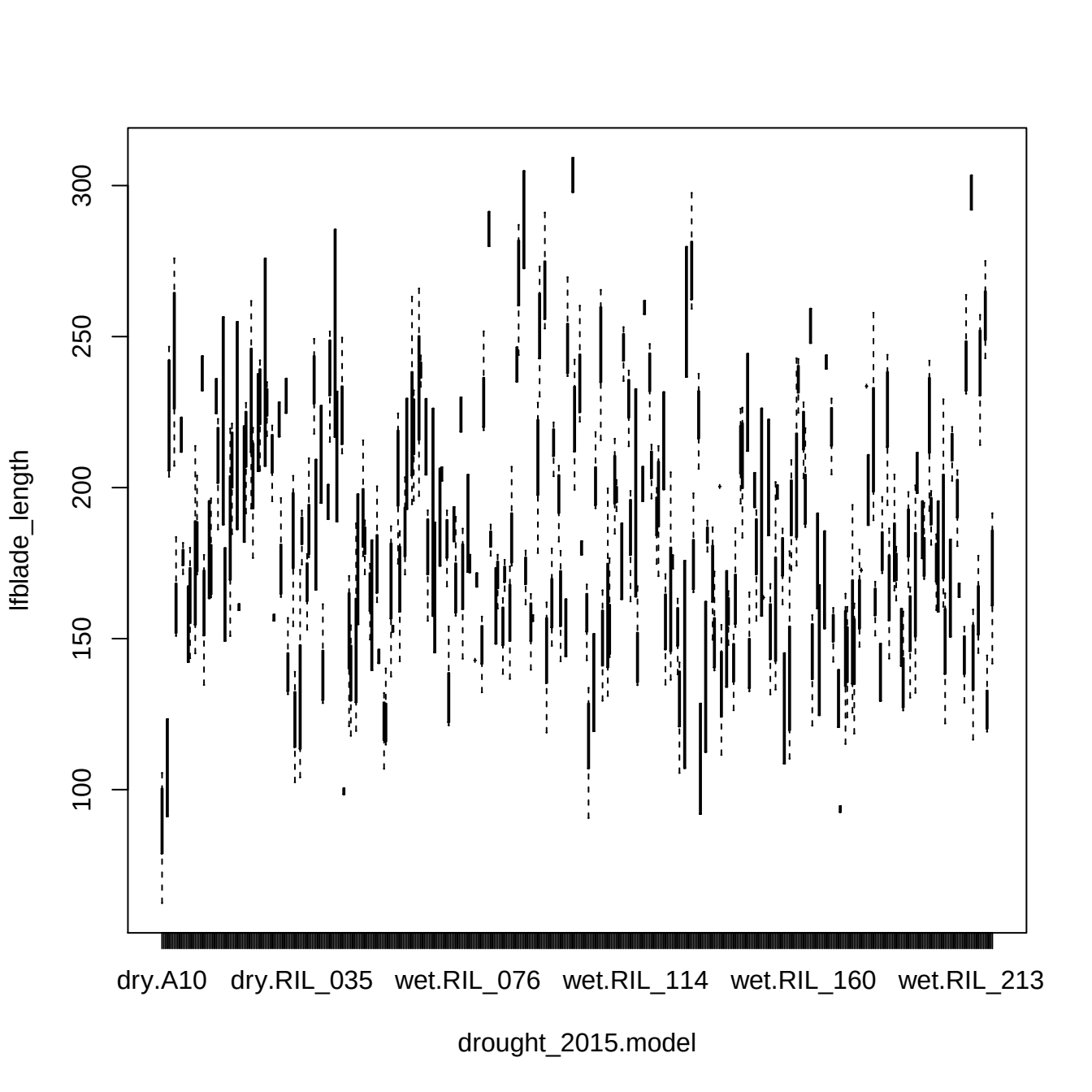
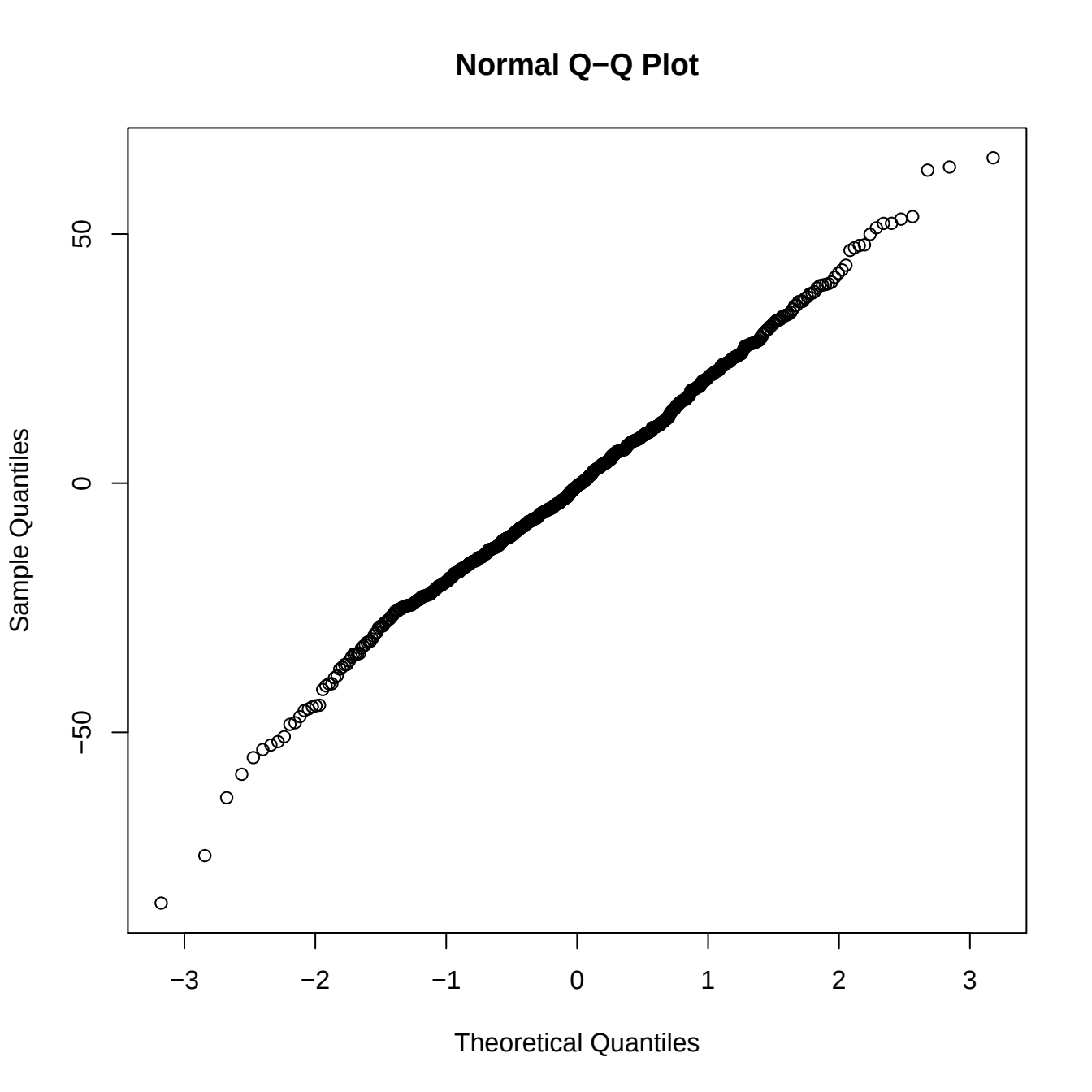
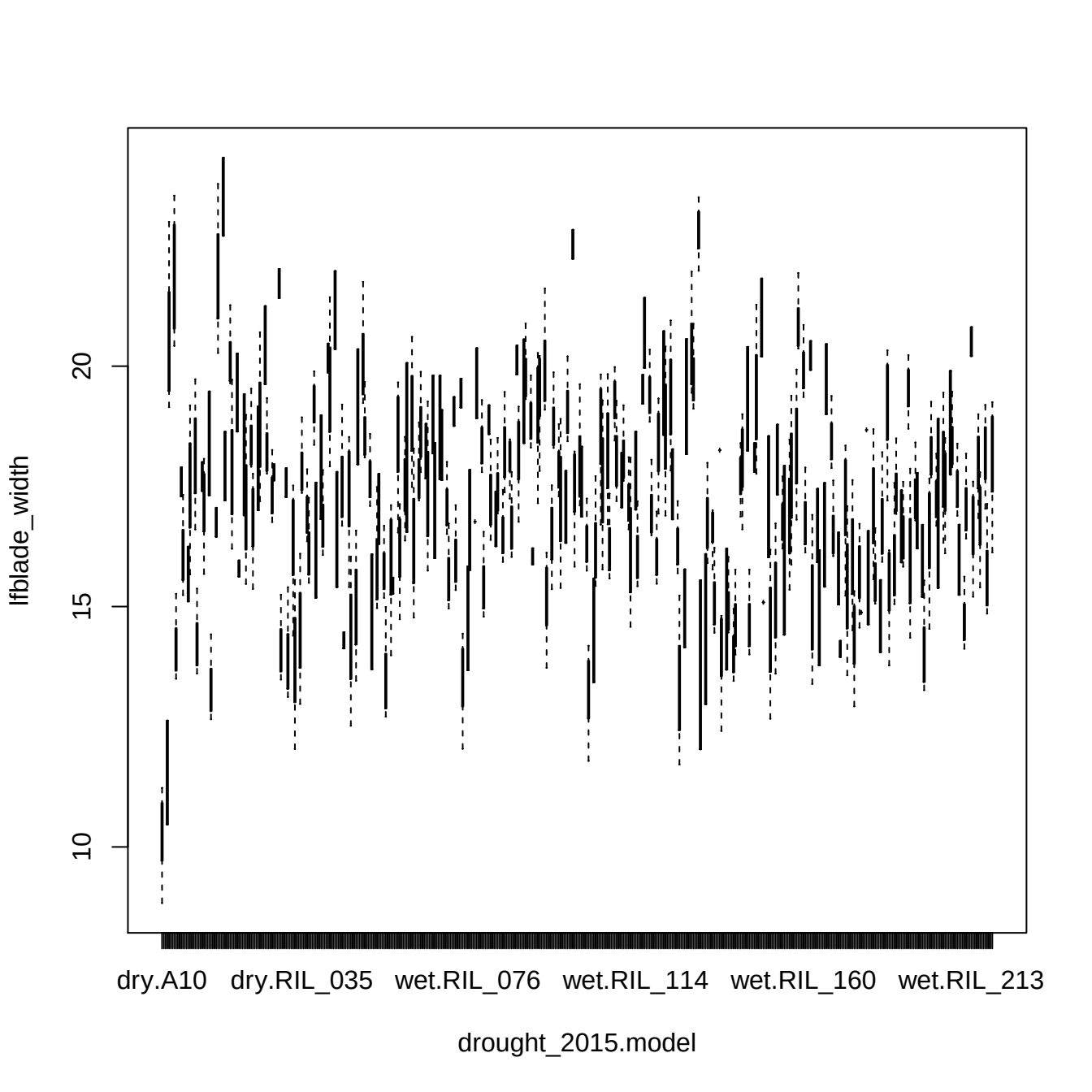
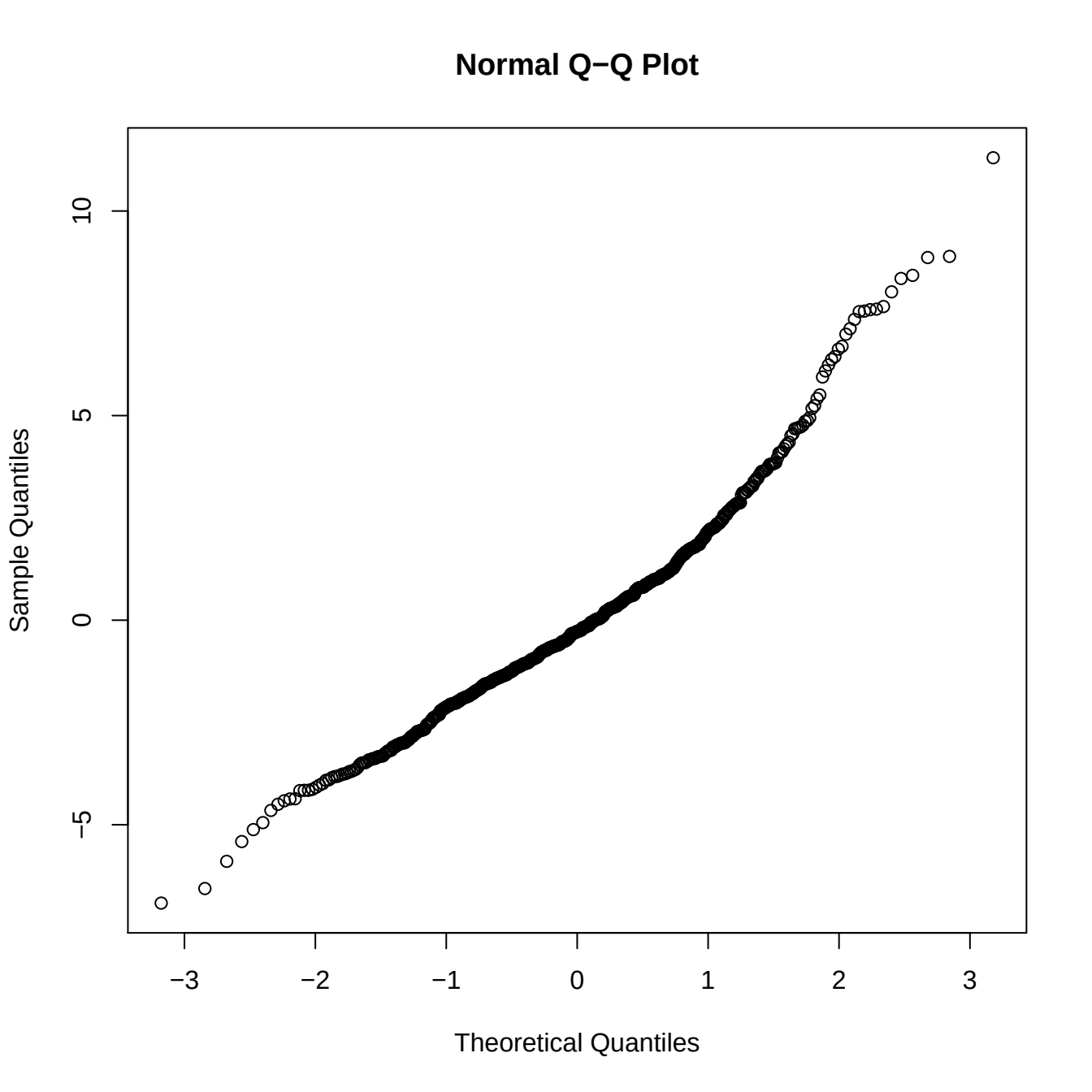

lfblade_area
0
10
20
30
40
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

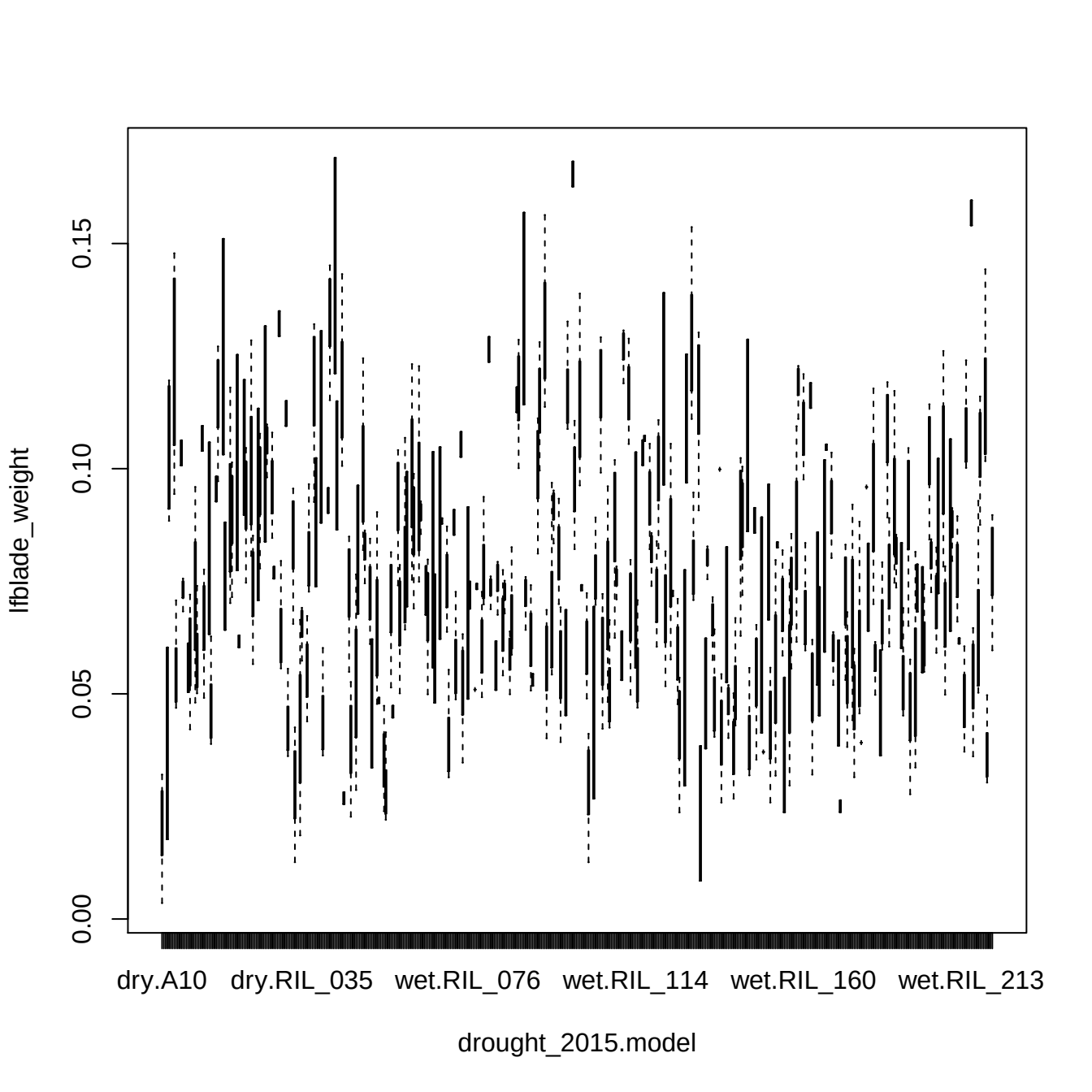

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
10
5
0
−5
−10
−3
−2
−1
0
1
2
3

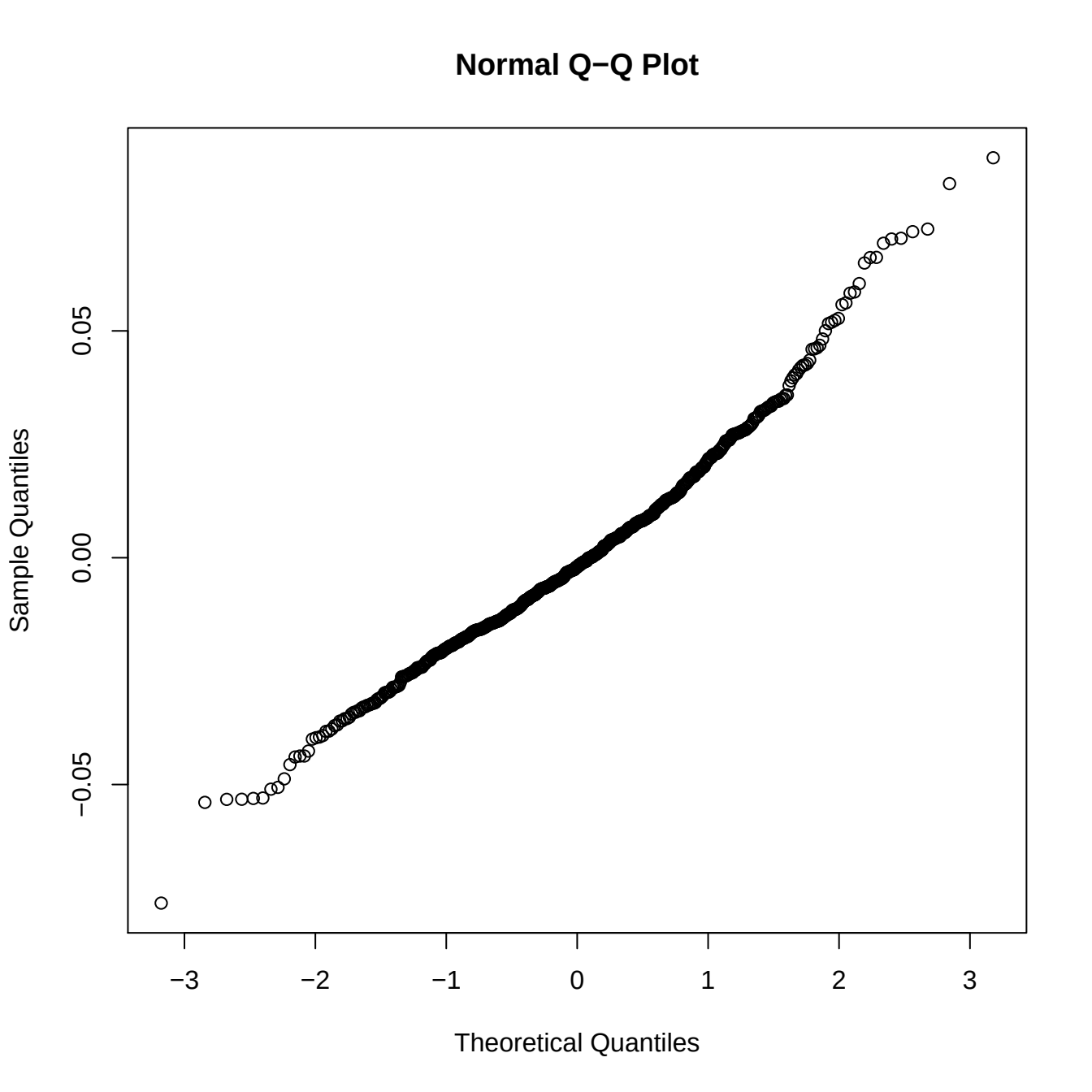

lfblade_length
100
150
200
250
300
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

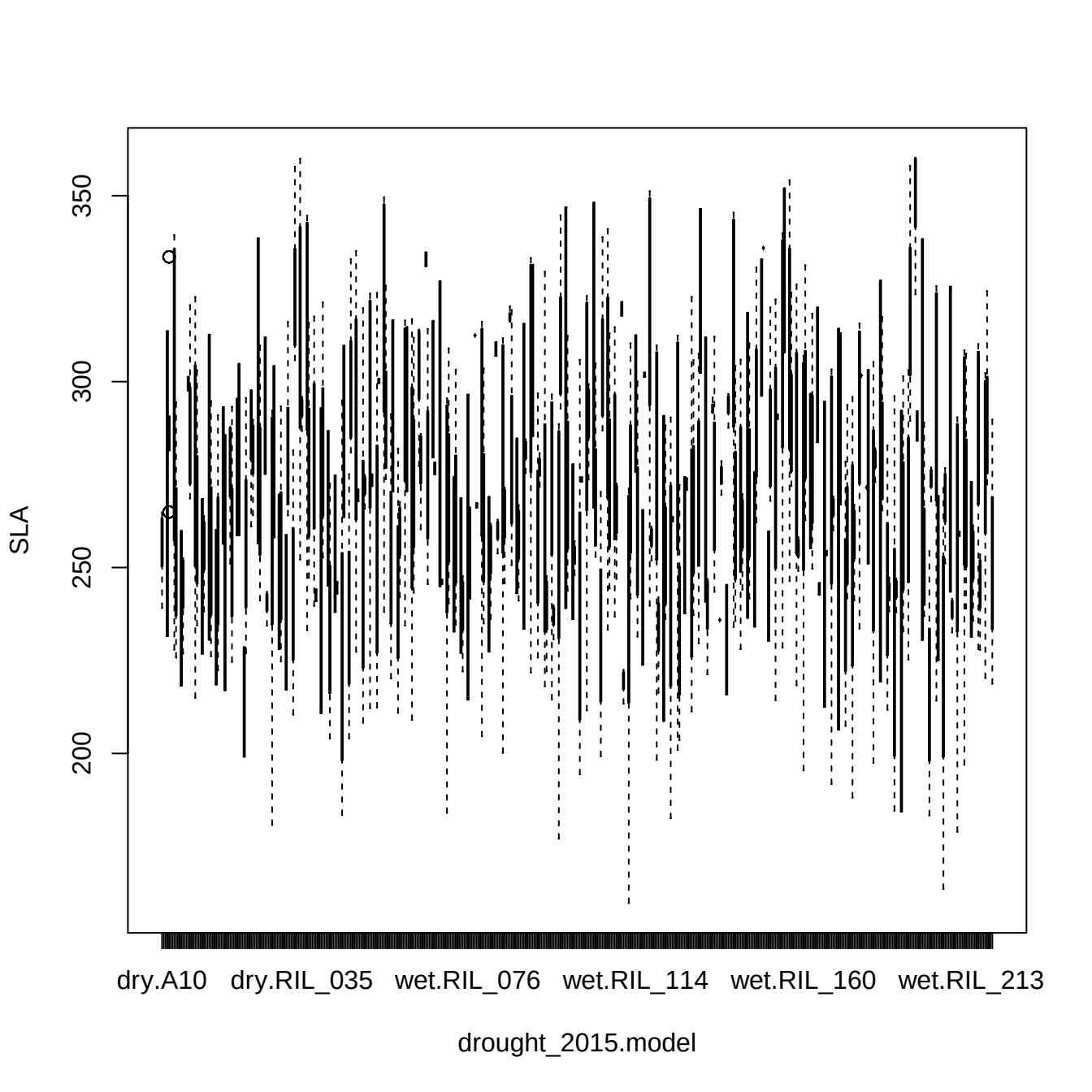

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
50
0
−50
−3
−2
−1
0
1
2
3

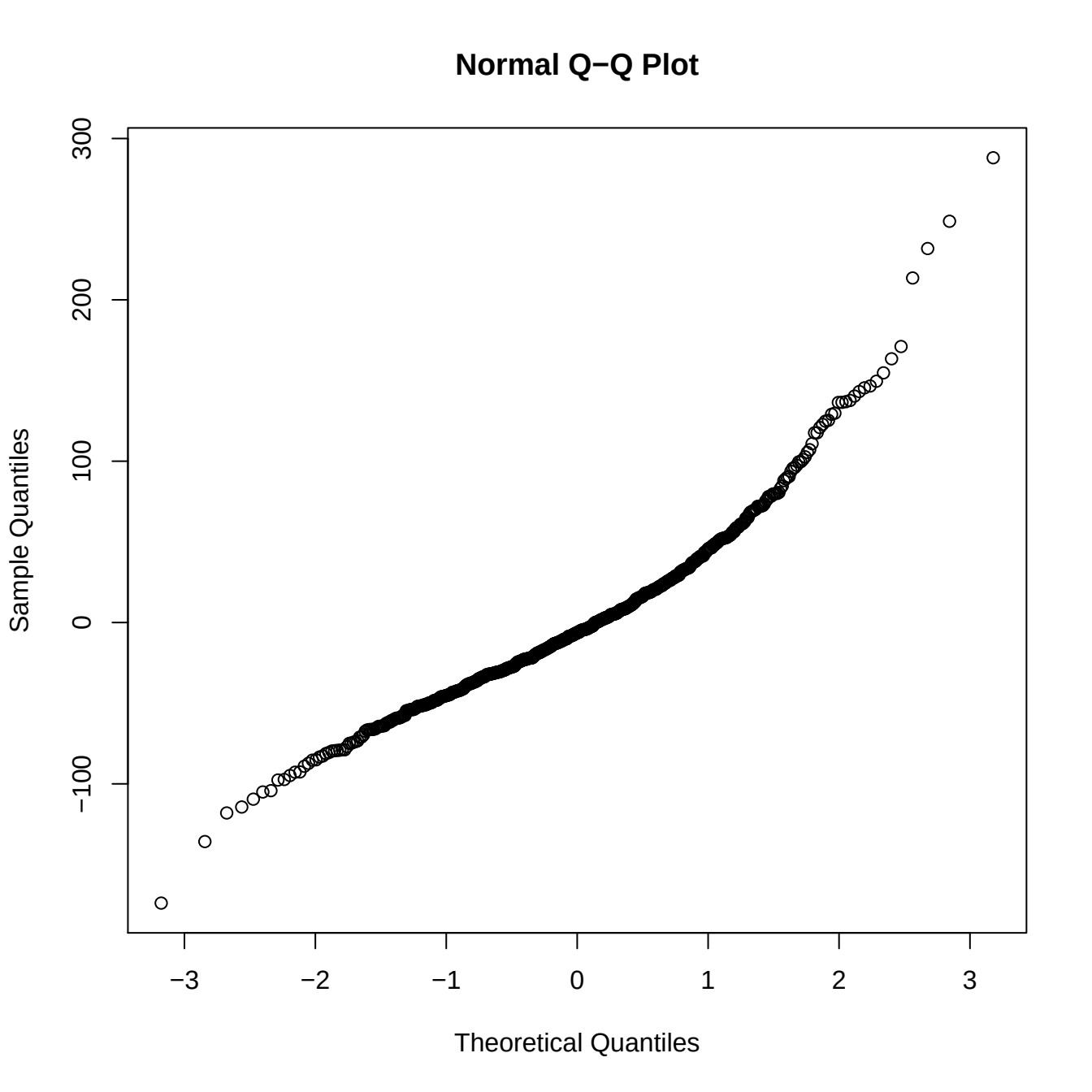

lfblade_width
10
15
20
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

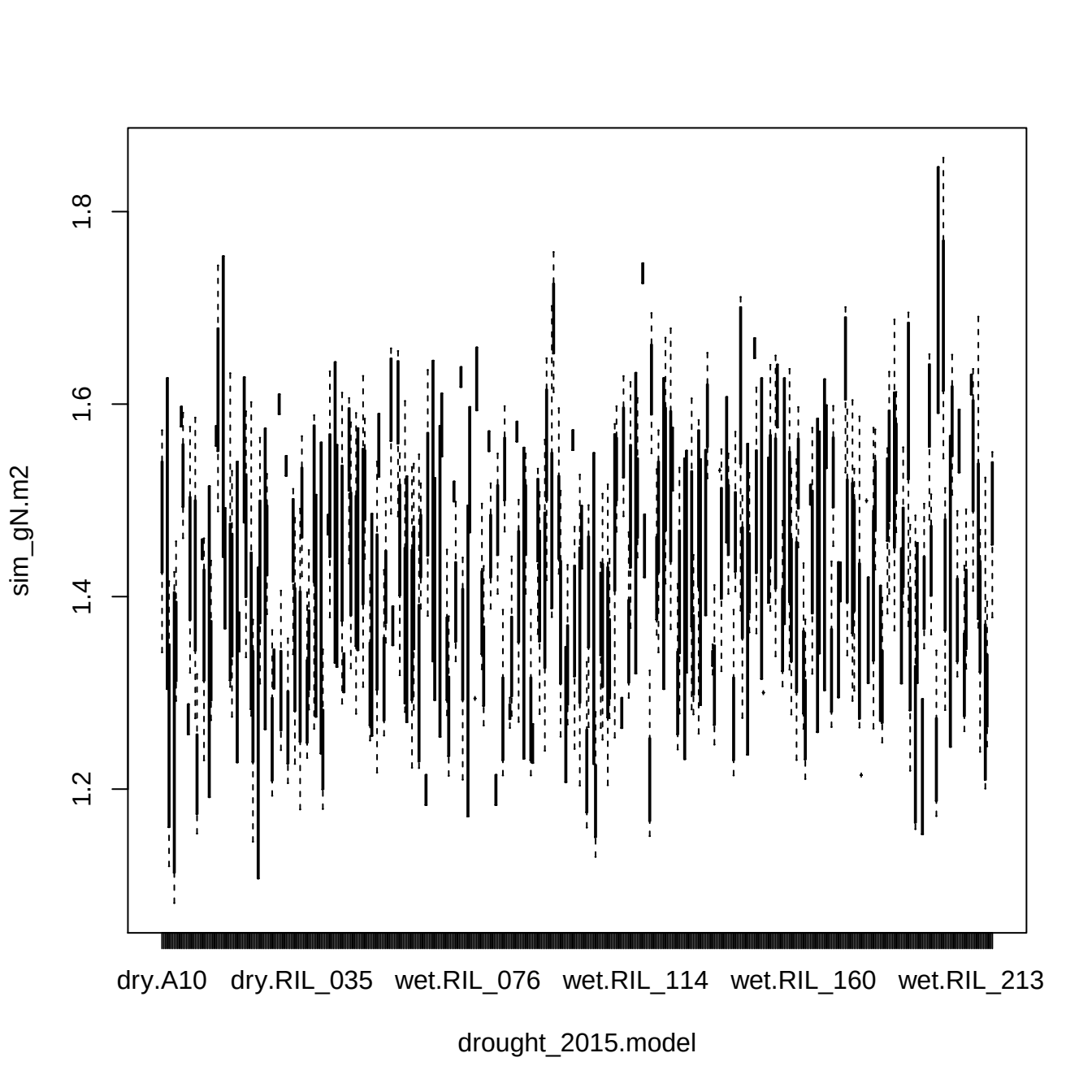

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
10
5
0
−5
−3
−2
−1
0
1
2
3

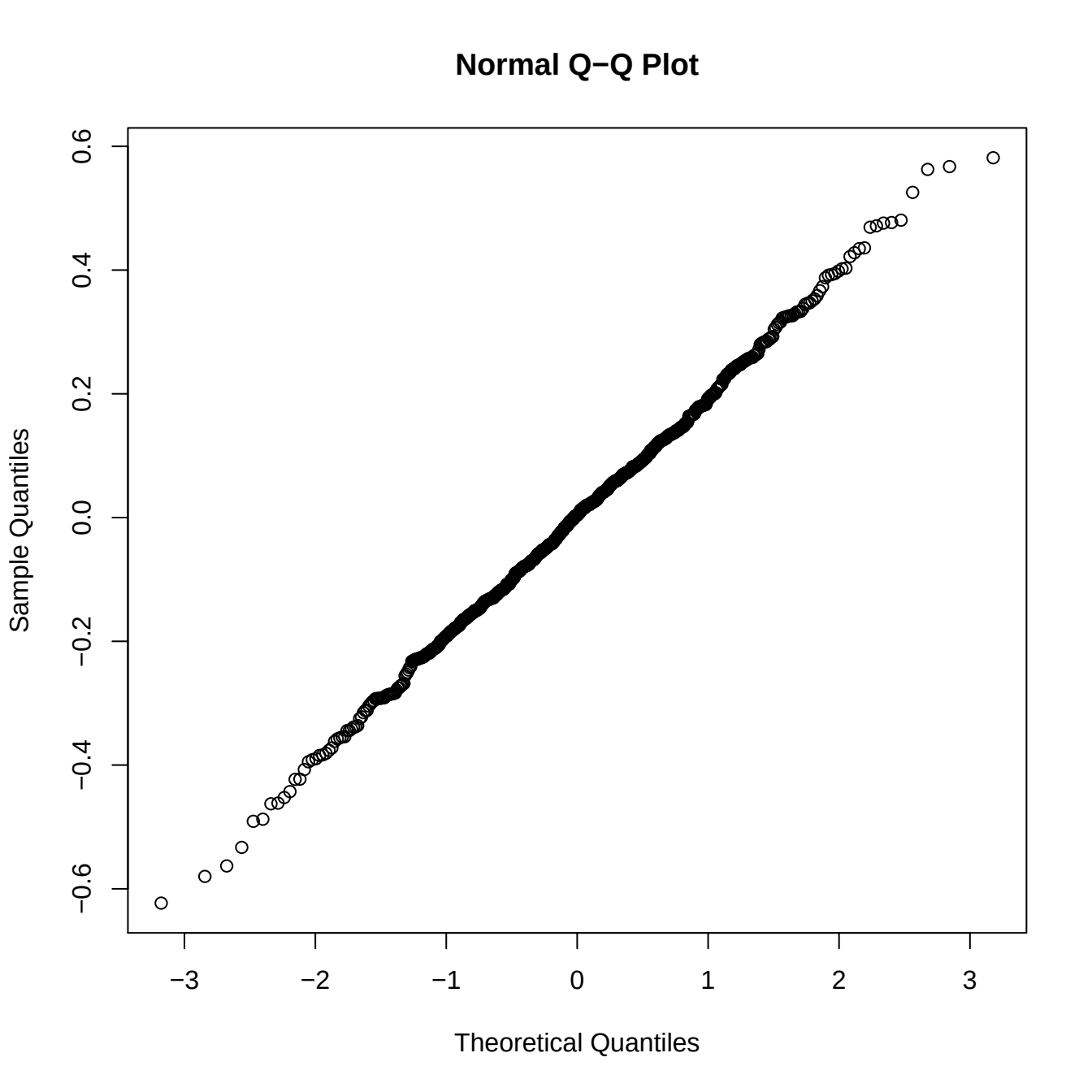

lfblade_weight
0.00
0.05
0.10
0.15
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

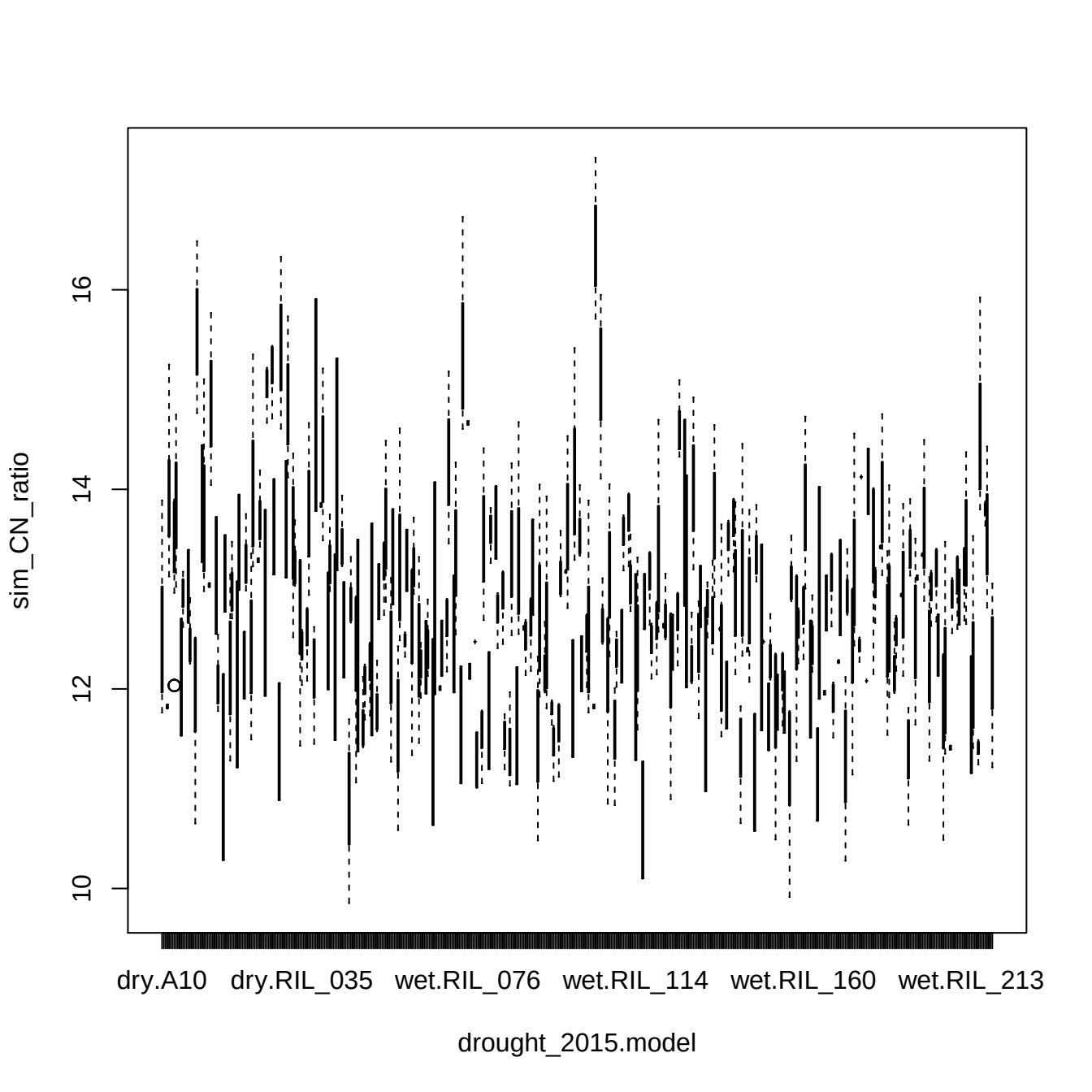

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.05
0.00
−0.05
−3
−2
−1
0
1
2
3

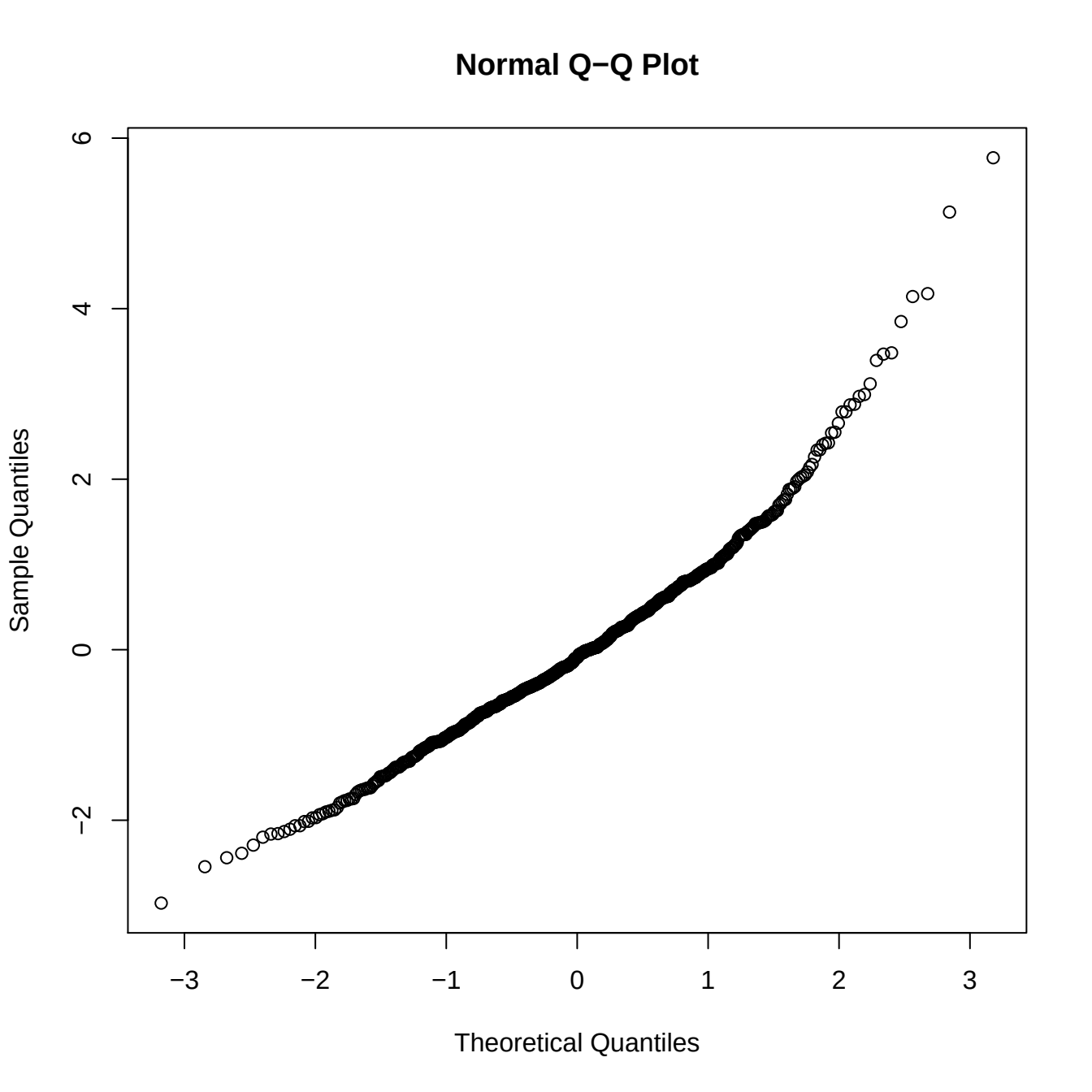

SLA
350
300
250
200
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

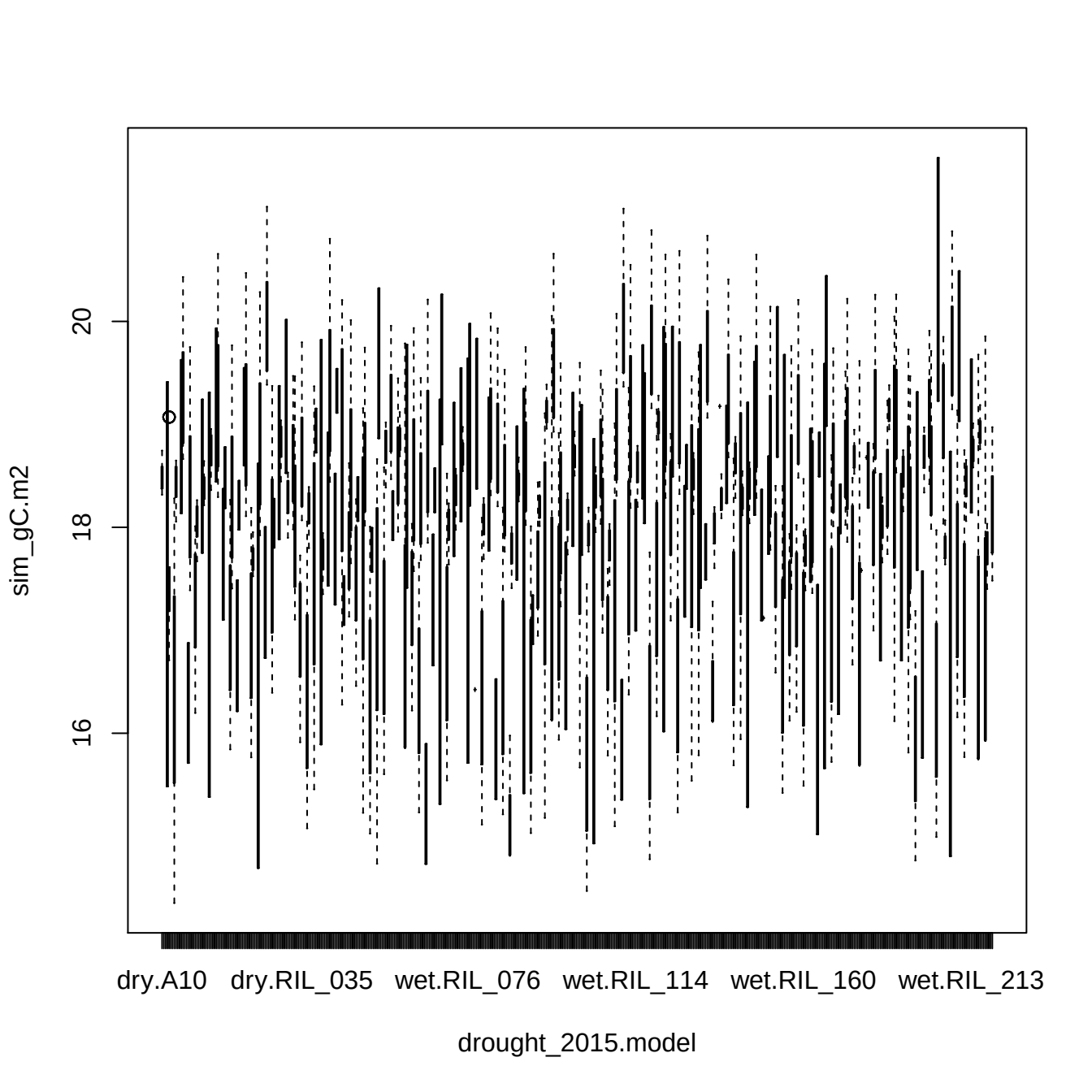

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
300
200
100
0
−100
−3
−2
−1
0
1
2
3

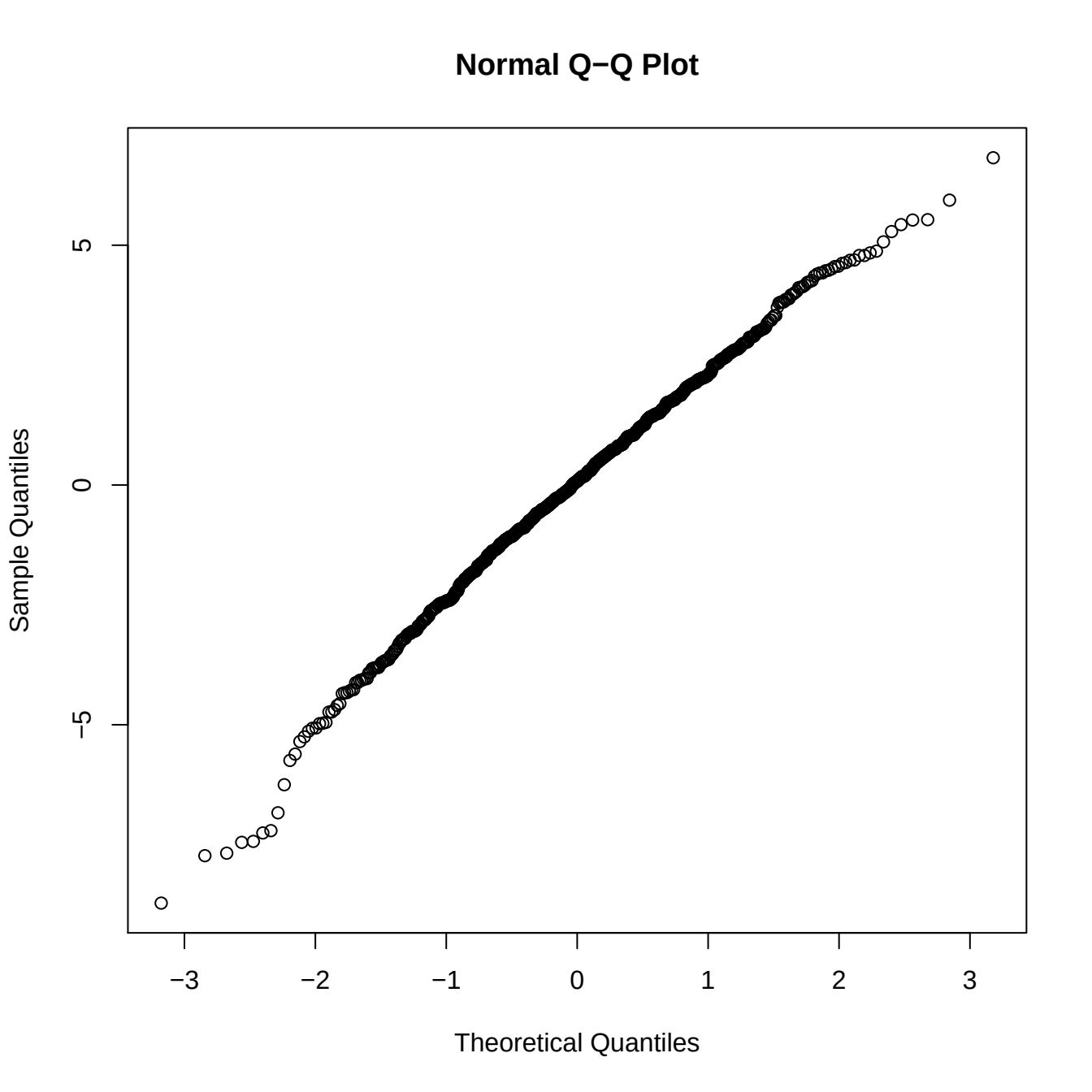

sim_gN.m2
1.2
1.4
1.6
1.8
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

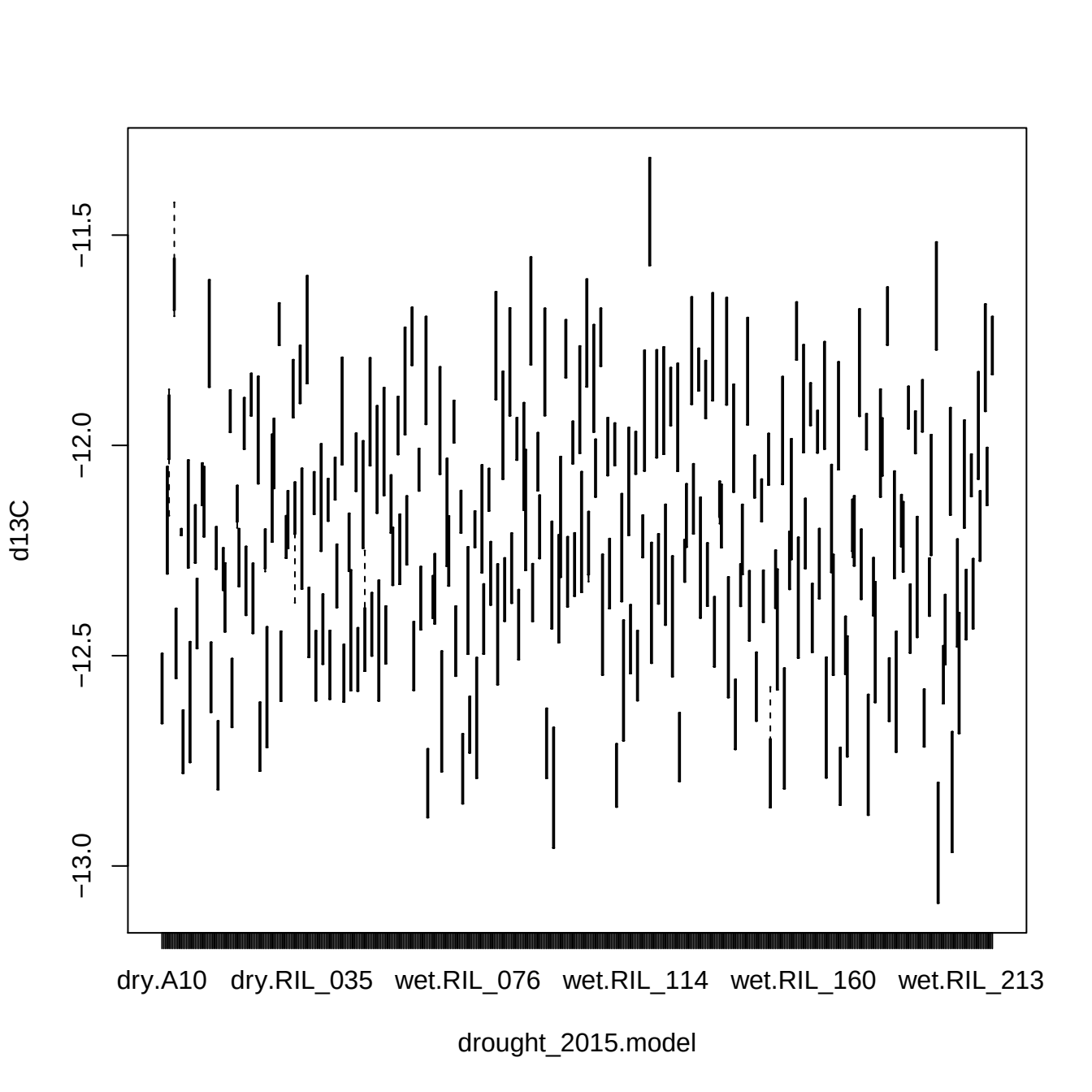

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−3
−2
−1
0
1
2
3

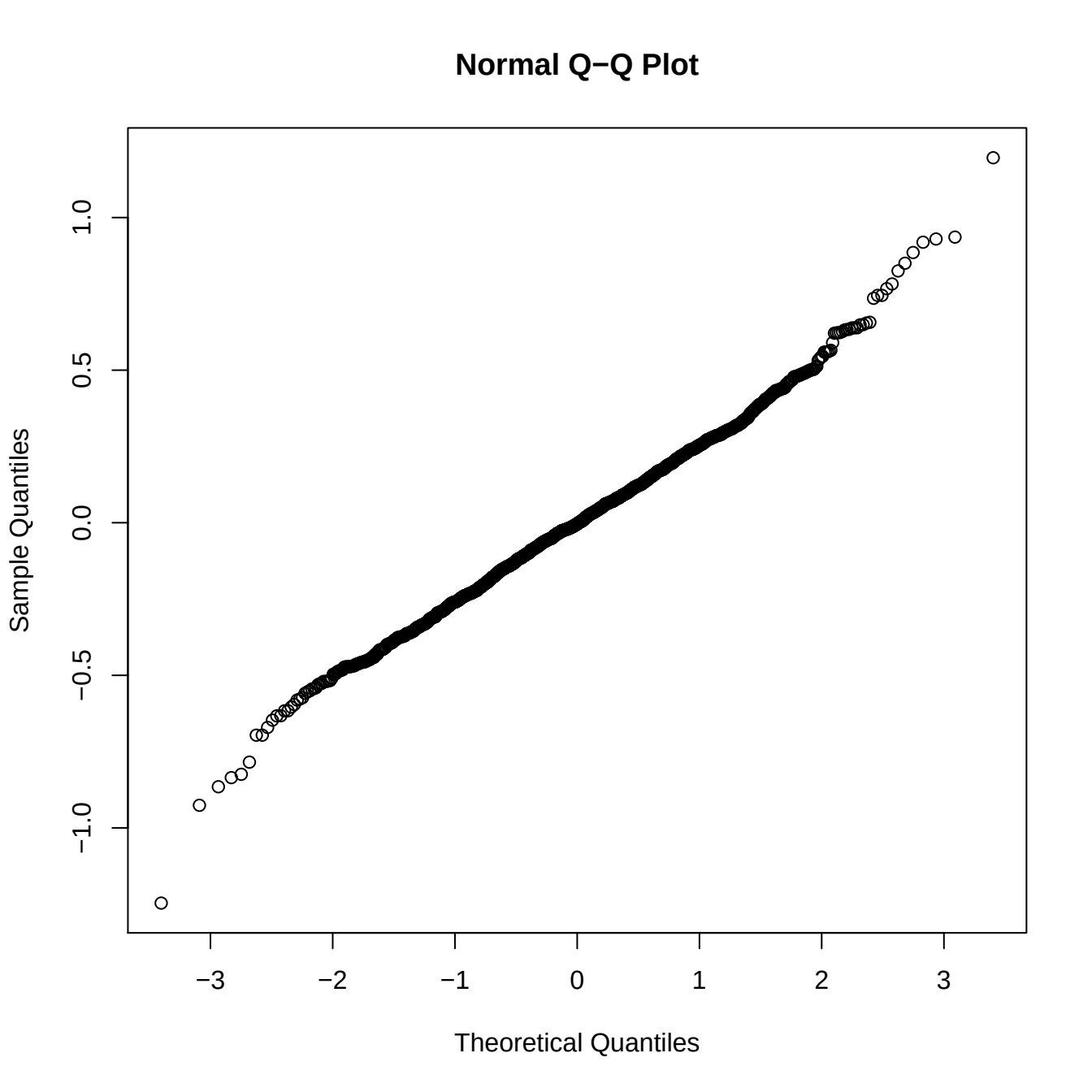

sim_CN_ratio
10
12
14
16
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

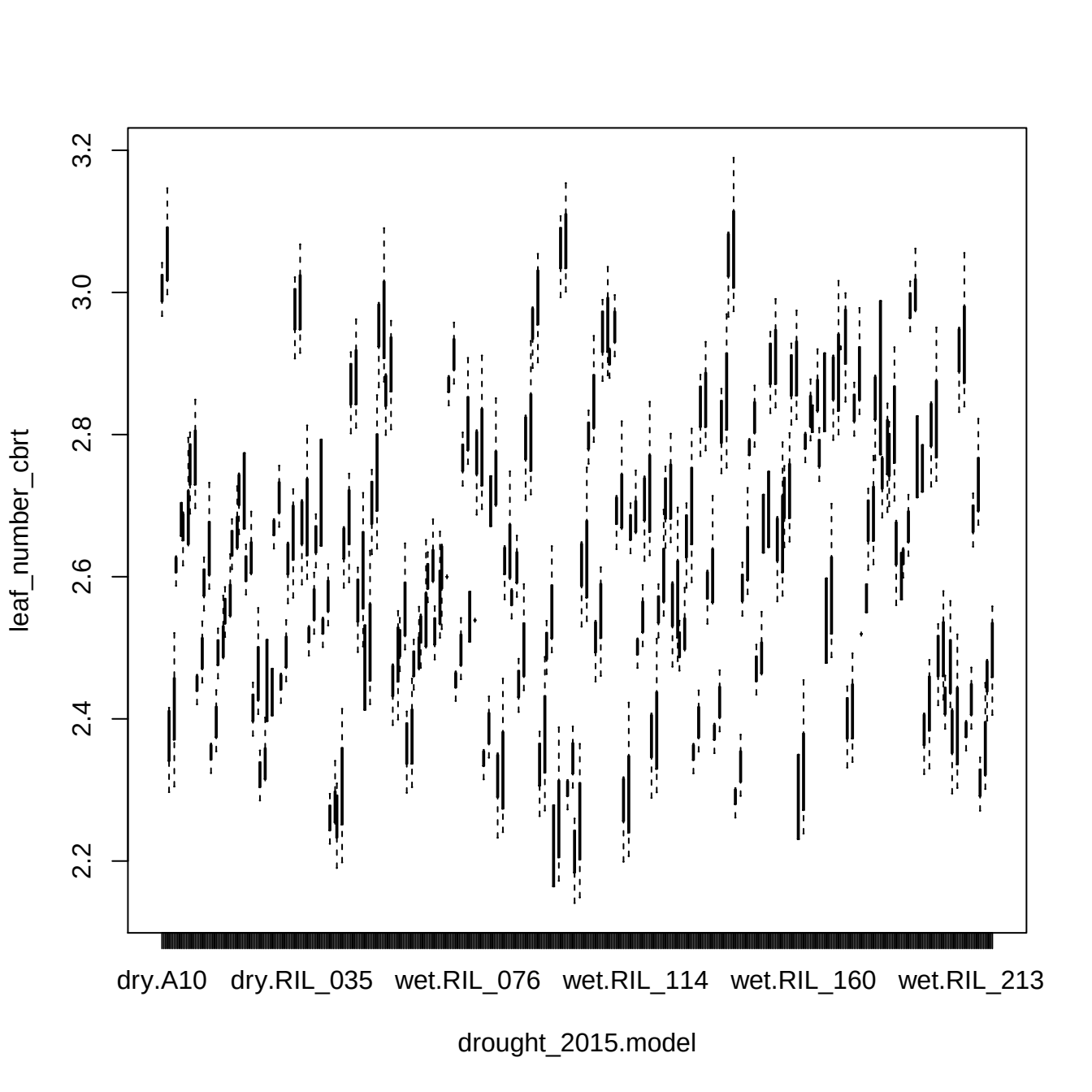

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
6
4
2
0
−2
−3
−2
−1
0
1
2
3

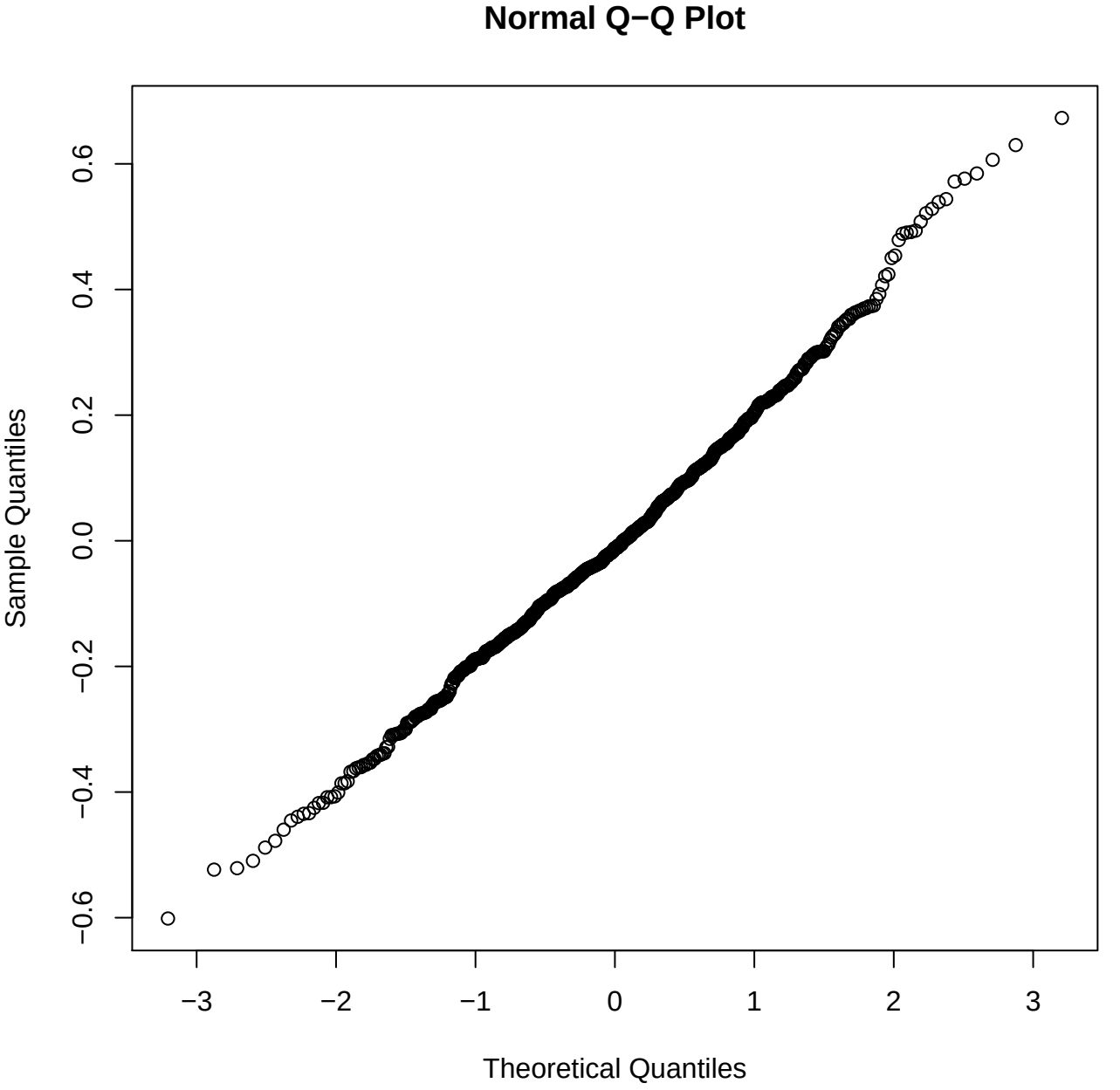

sim_gC.m2
16
18
20
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

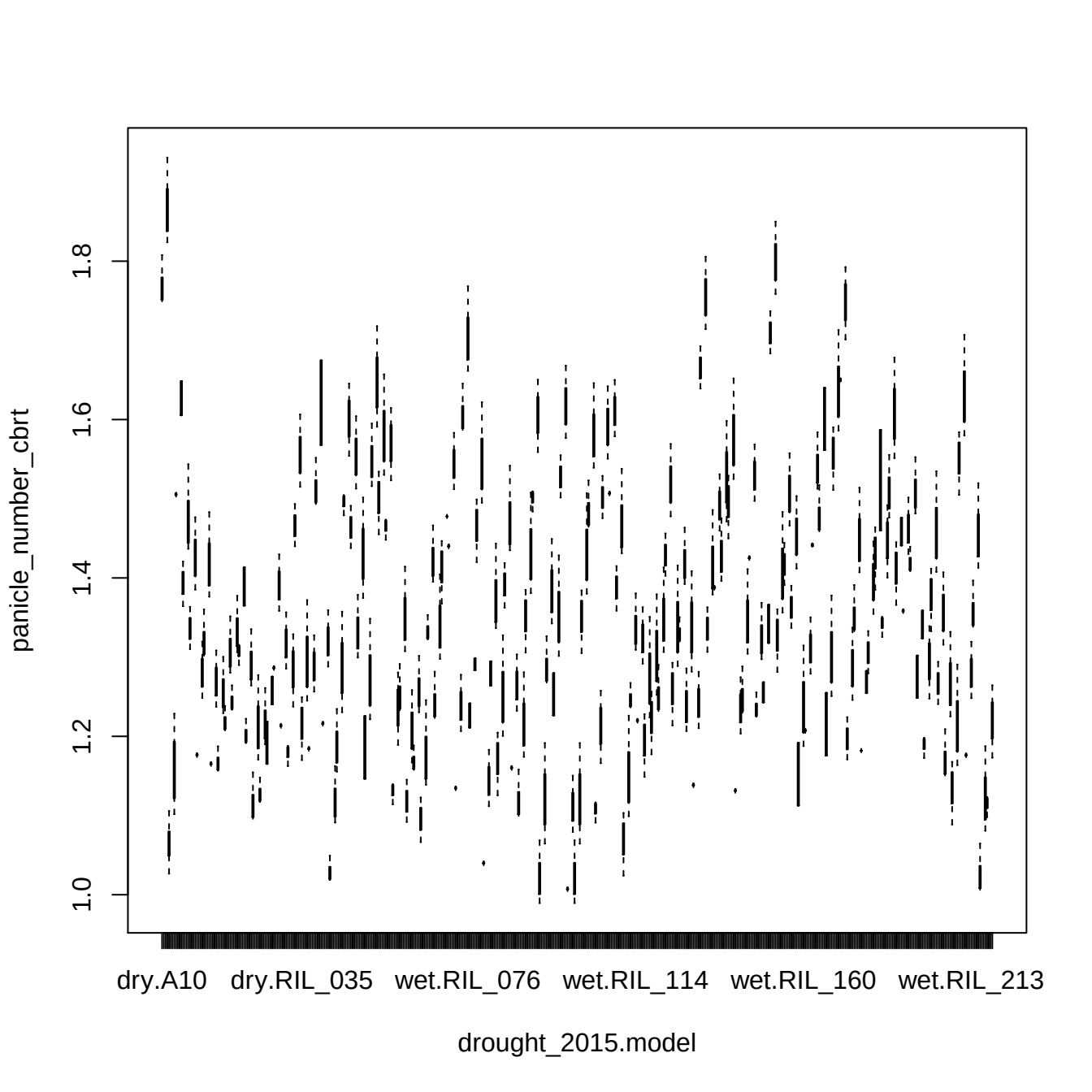

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
5
0
−5
−3
−2
−1
0
1
2
3

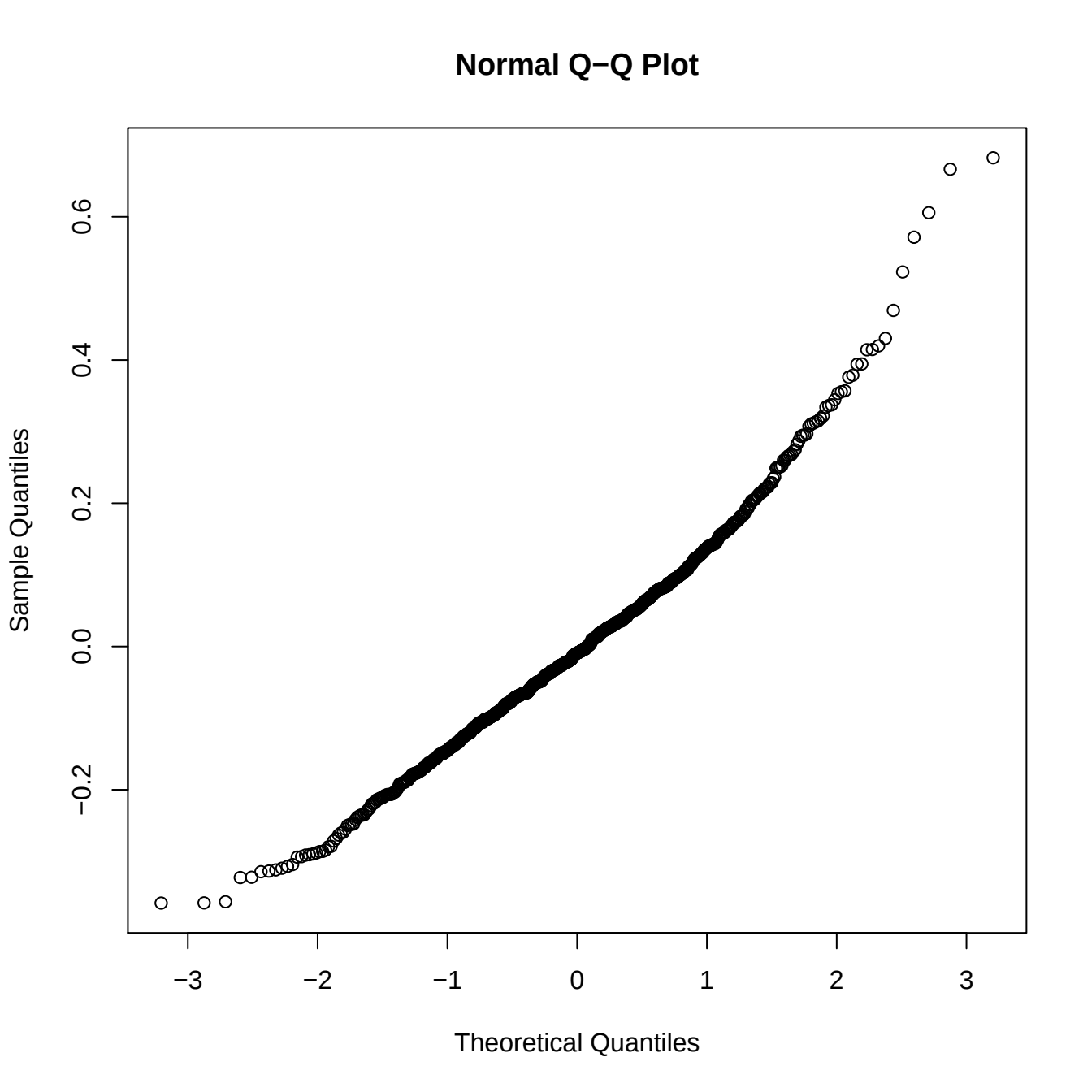

d13C
−11.5
−12.0
−12.5
−13.0
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

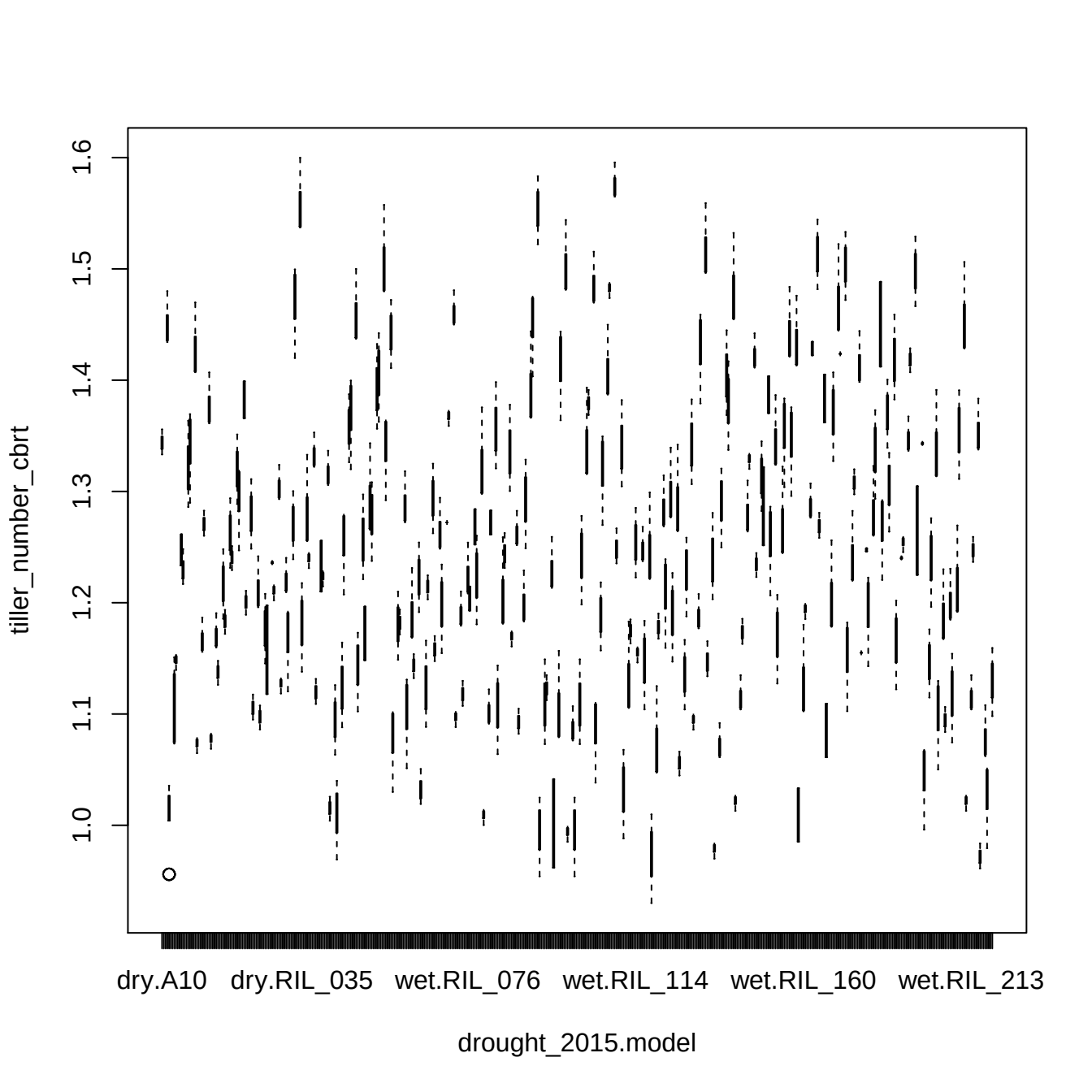

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
1.0
0.5
0.0
−0.5
−1.0
−3
−2
−1
0
1
2
3

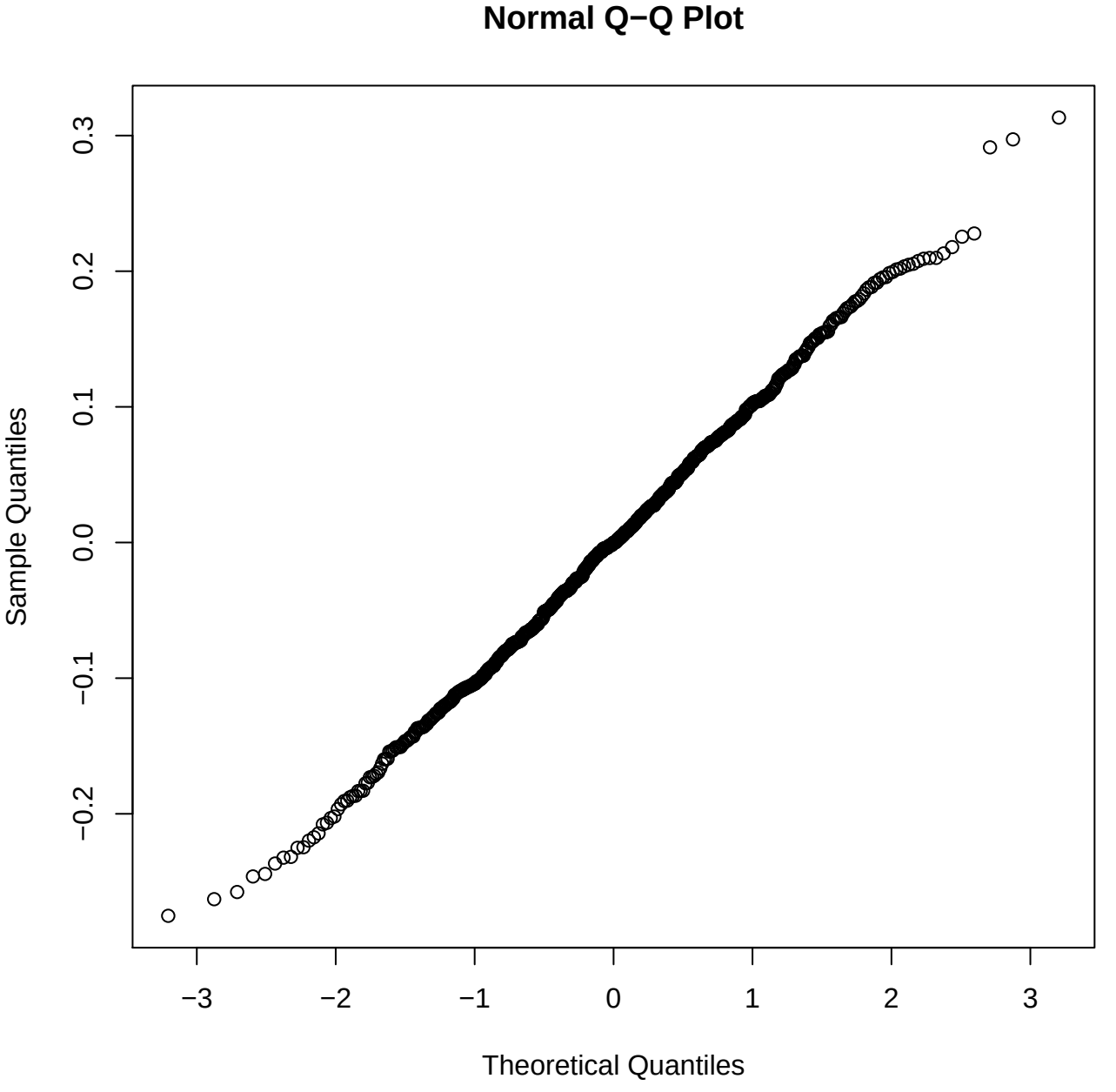

leaf_number_cbrt
3.2
3.0
2.8
2.6
2.4
2.2
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

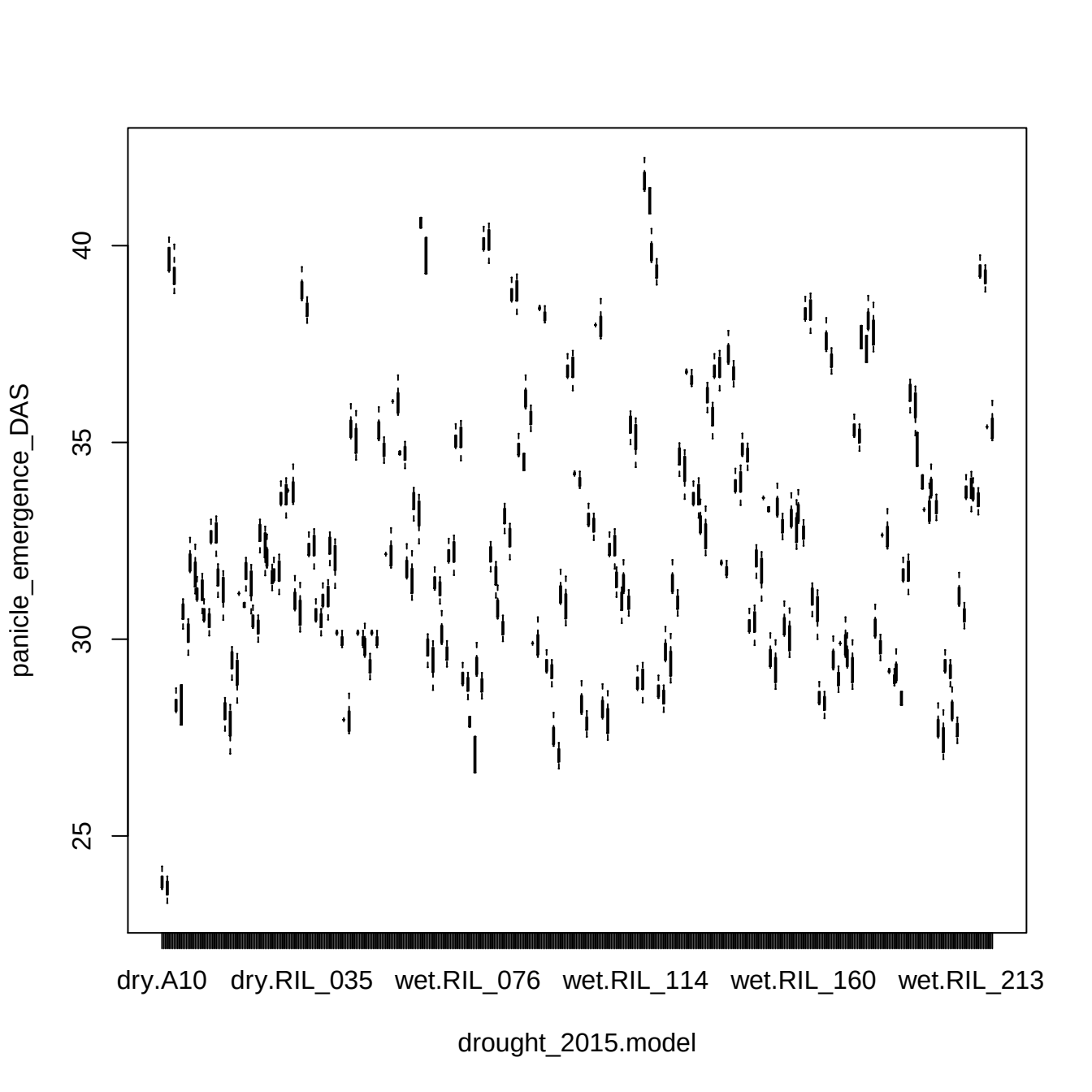

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
−3
−2
−1
0
1
2
3

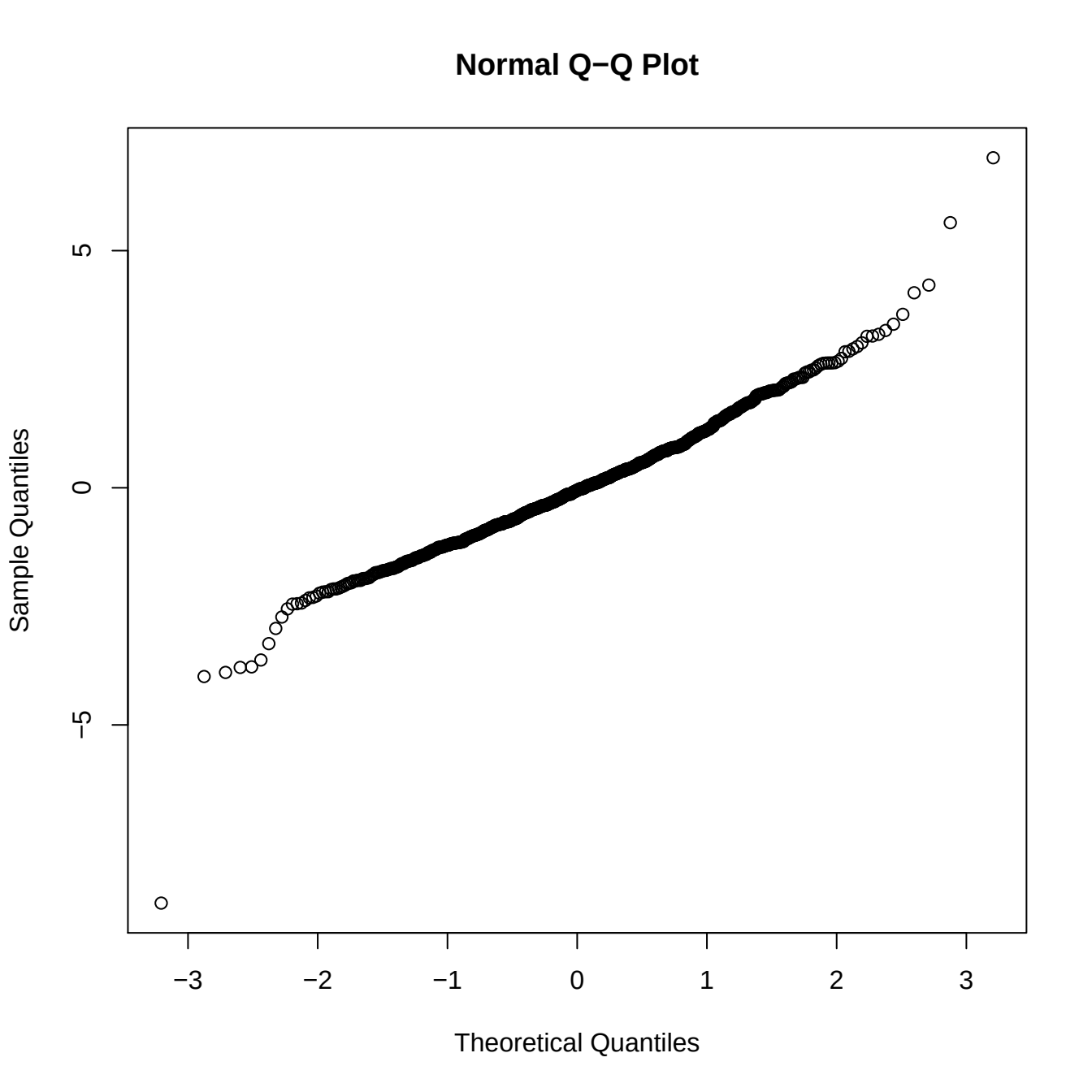

panicle_number_cbrt
1.0
1.2
1.4
1.6
1.8
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

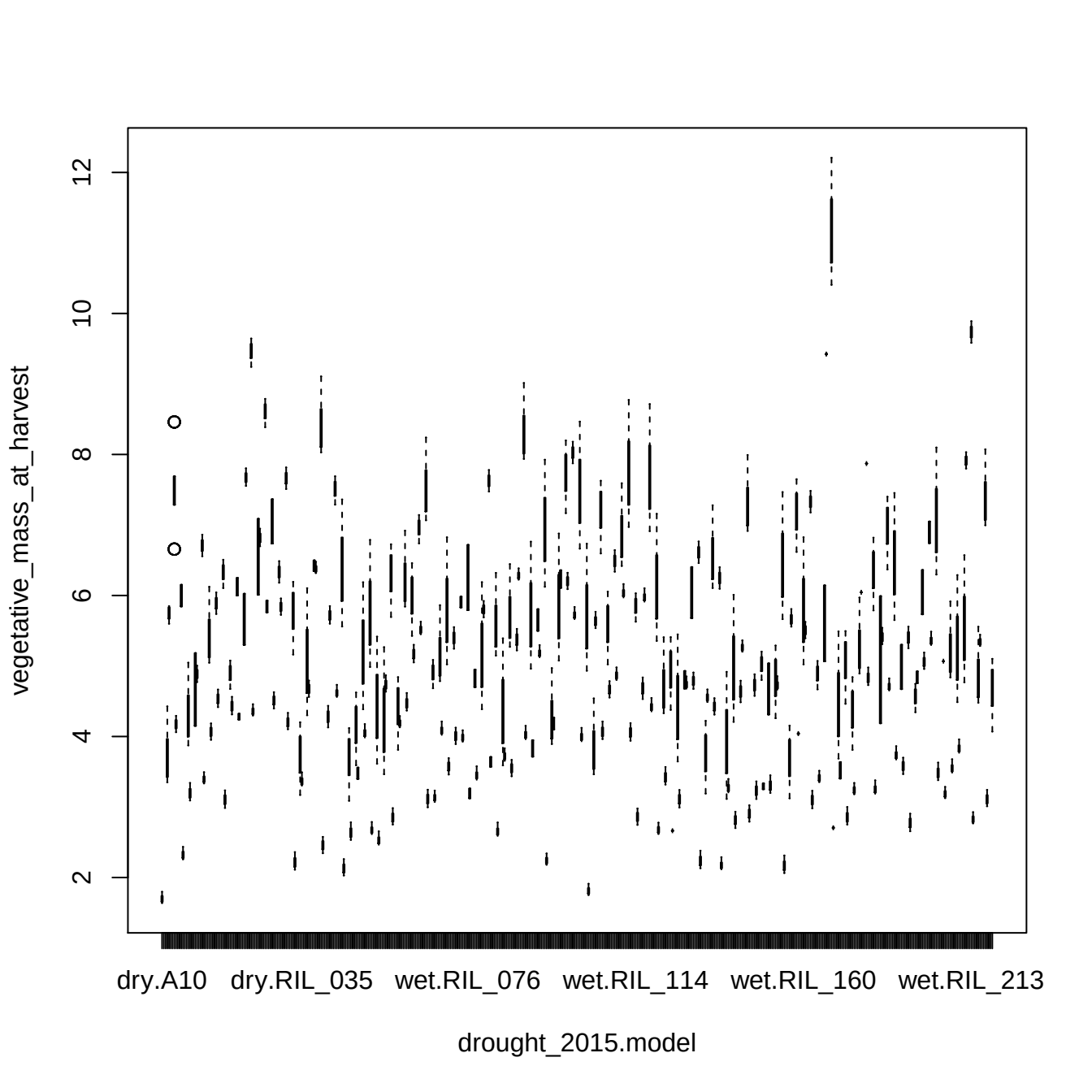

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.6
0.4
0.2
0.0
−0.2
−3
−2
−1
0
1
2
3

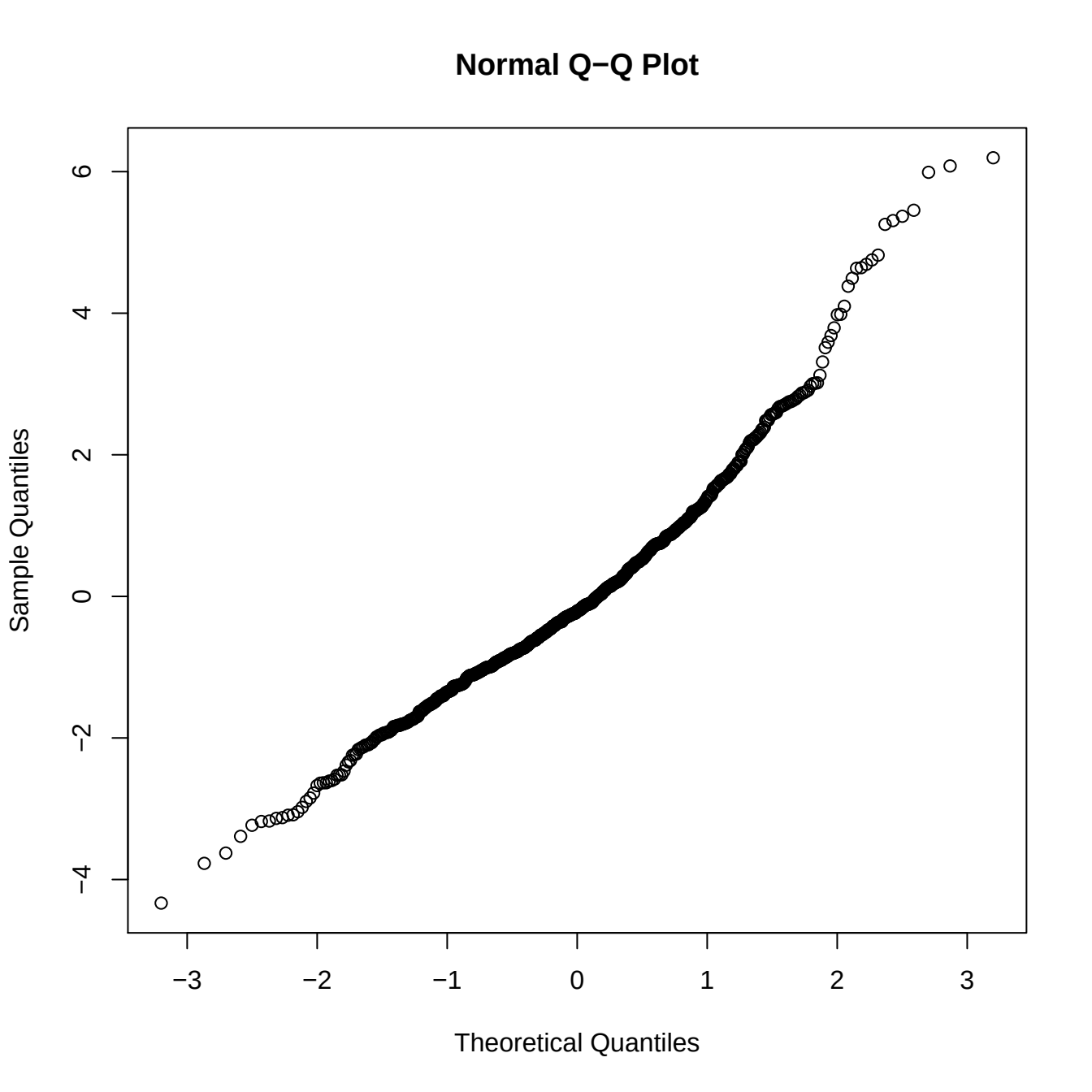

tiller_number_cbrt
1.0
1.1
1.2
1.3
1.4
1.5
1.6
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

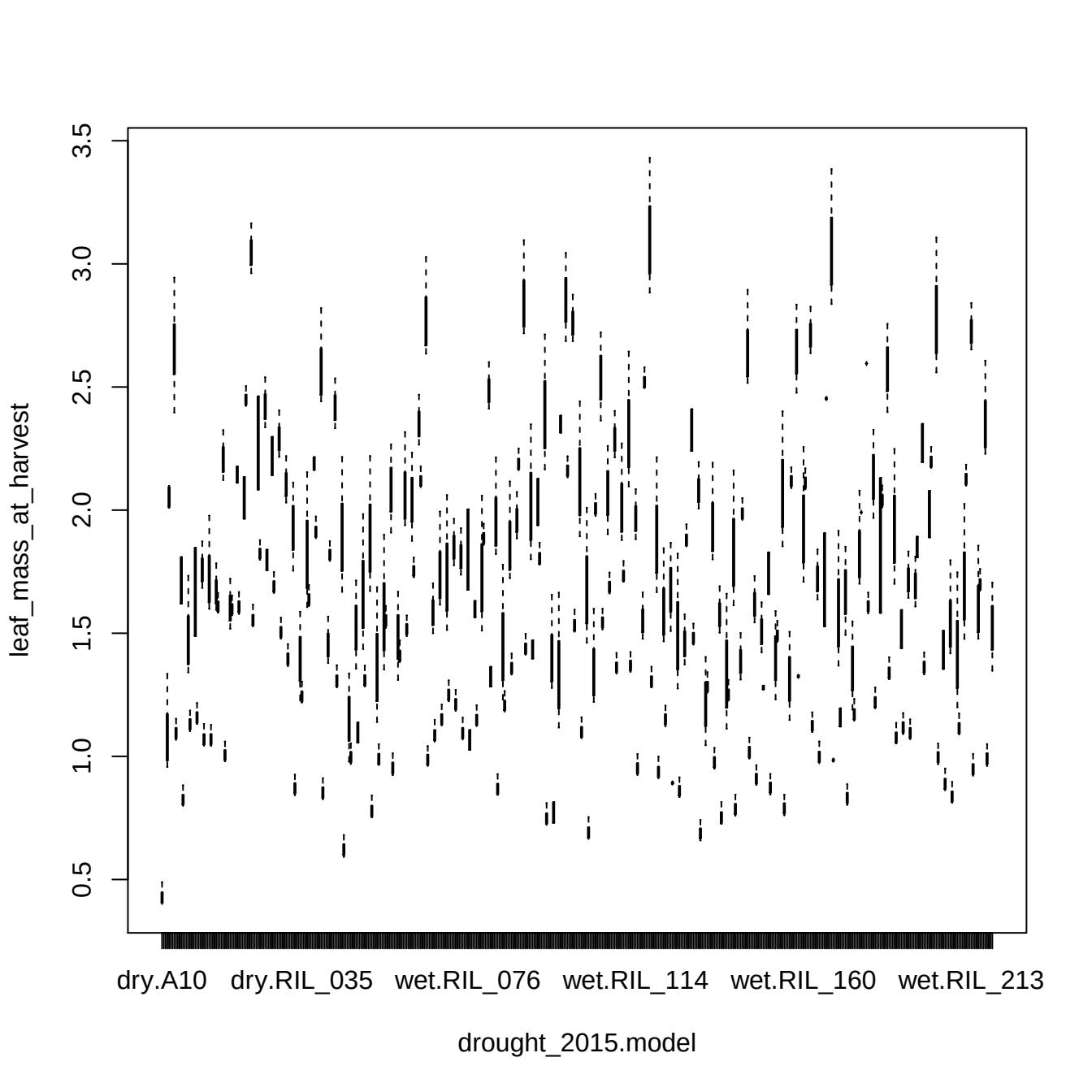

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.3
0.2
0.1
0.0
−0.1
−0.2
−3
−2
−1
0
1
2
3

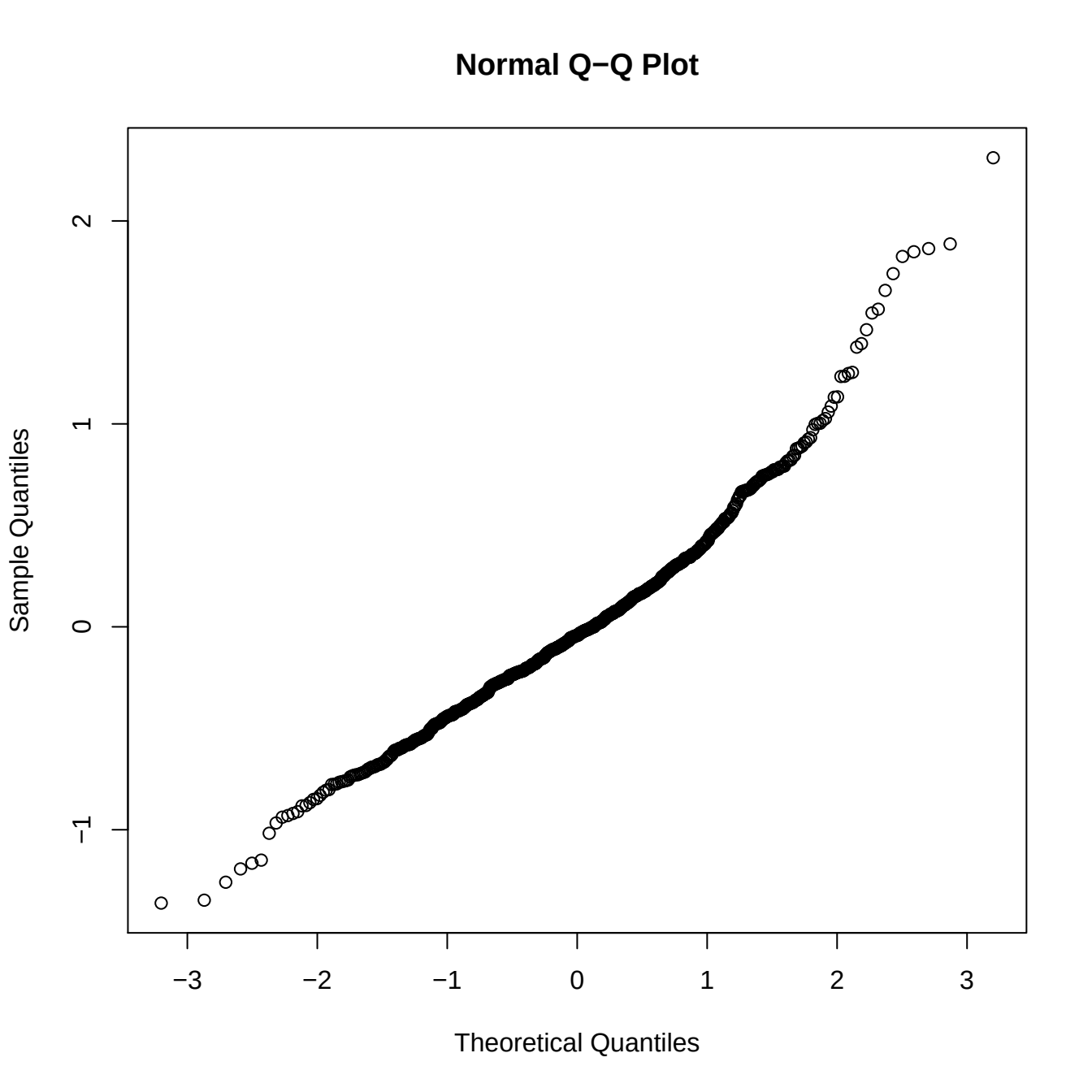

panicle_emergence_DAS
25
30
35
40
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

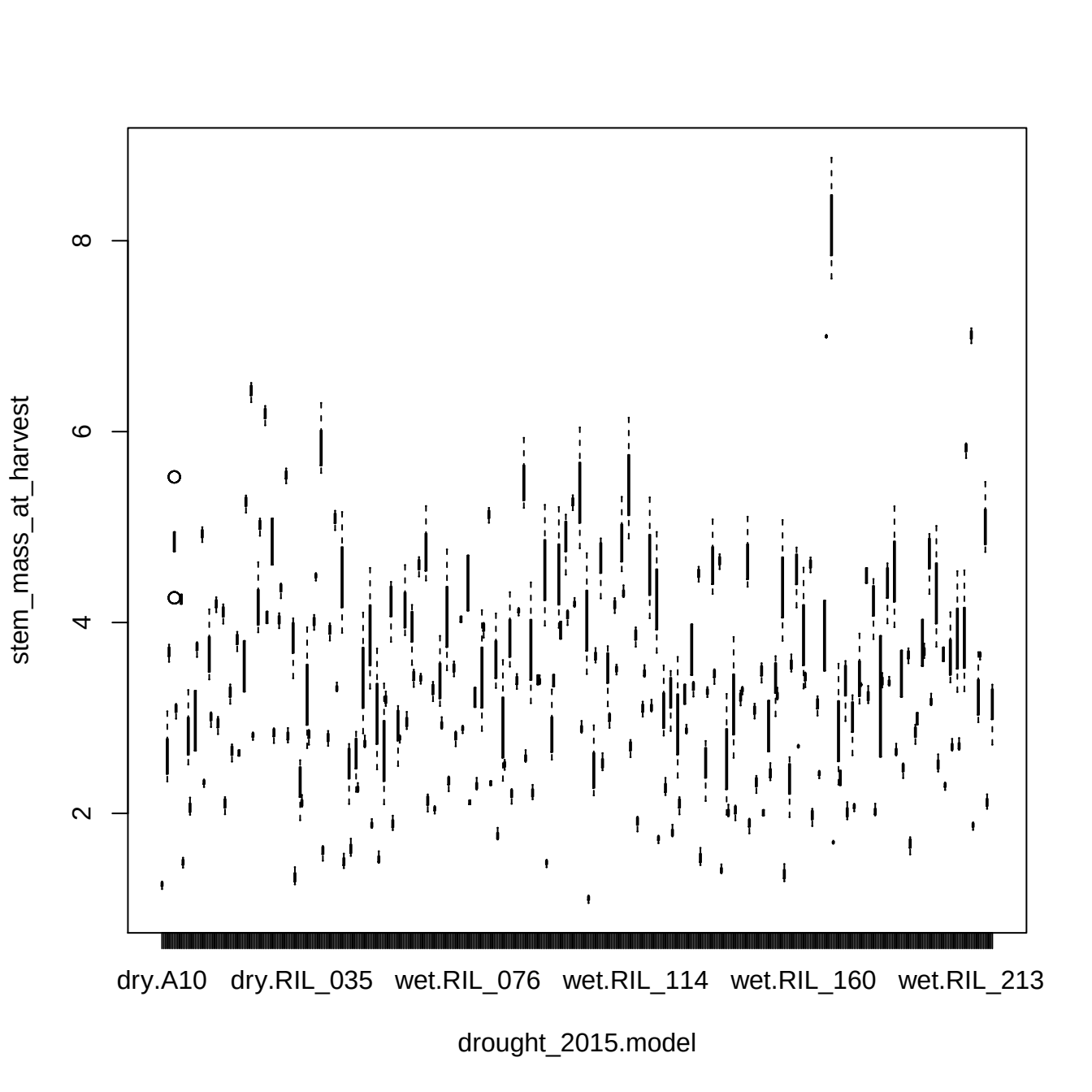

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
5
0
−5
−3
−2
−1
0
1
2
3

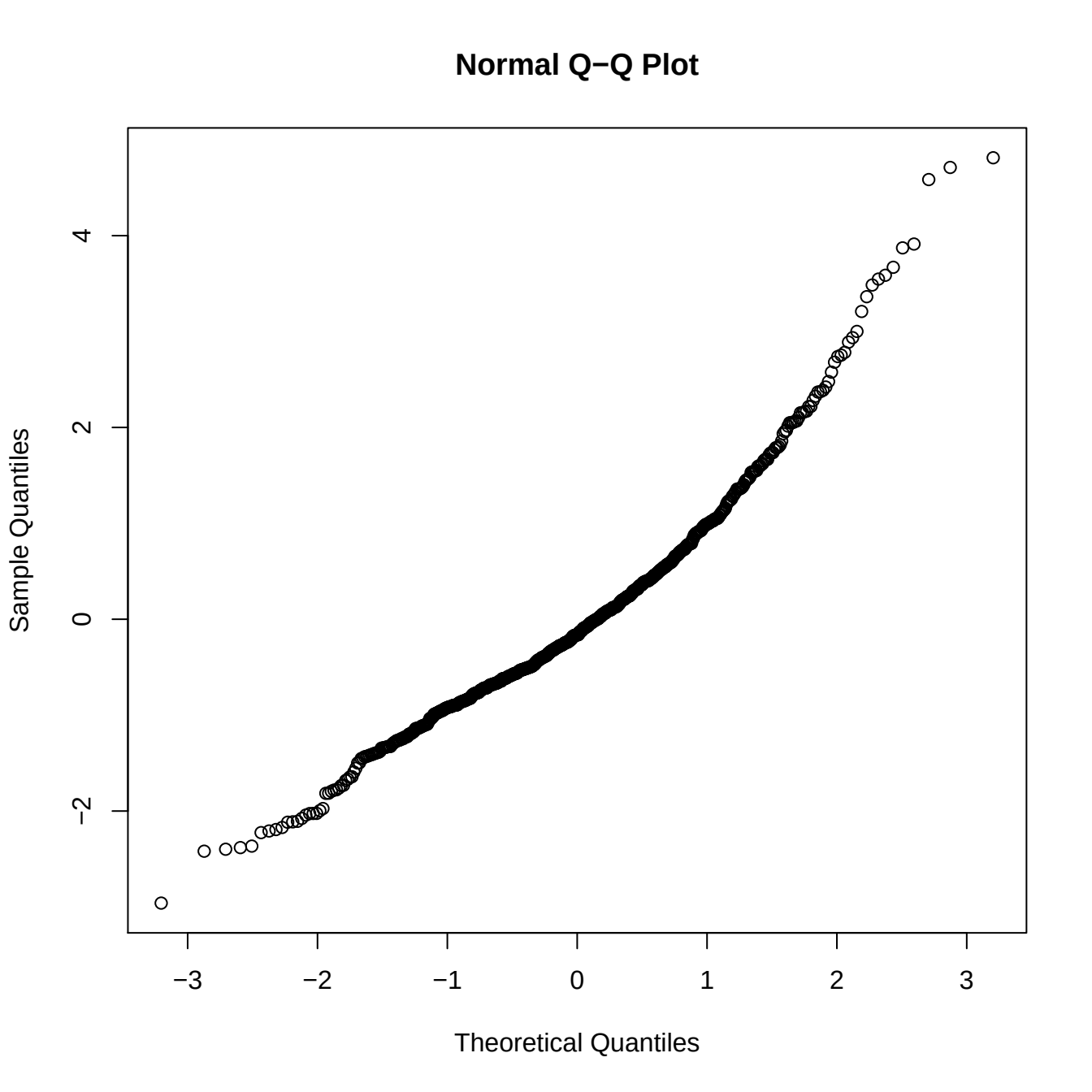

vegetative_mass_at_harvest
2
4
6
8
10
12
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

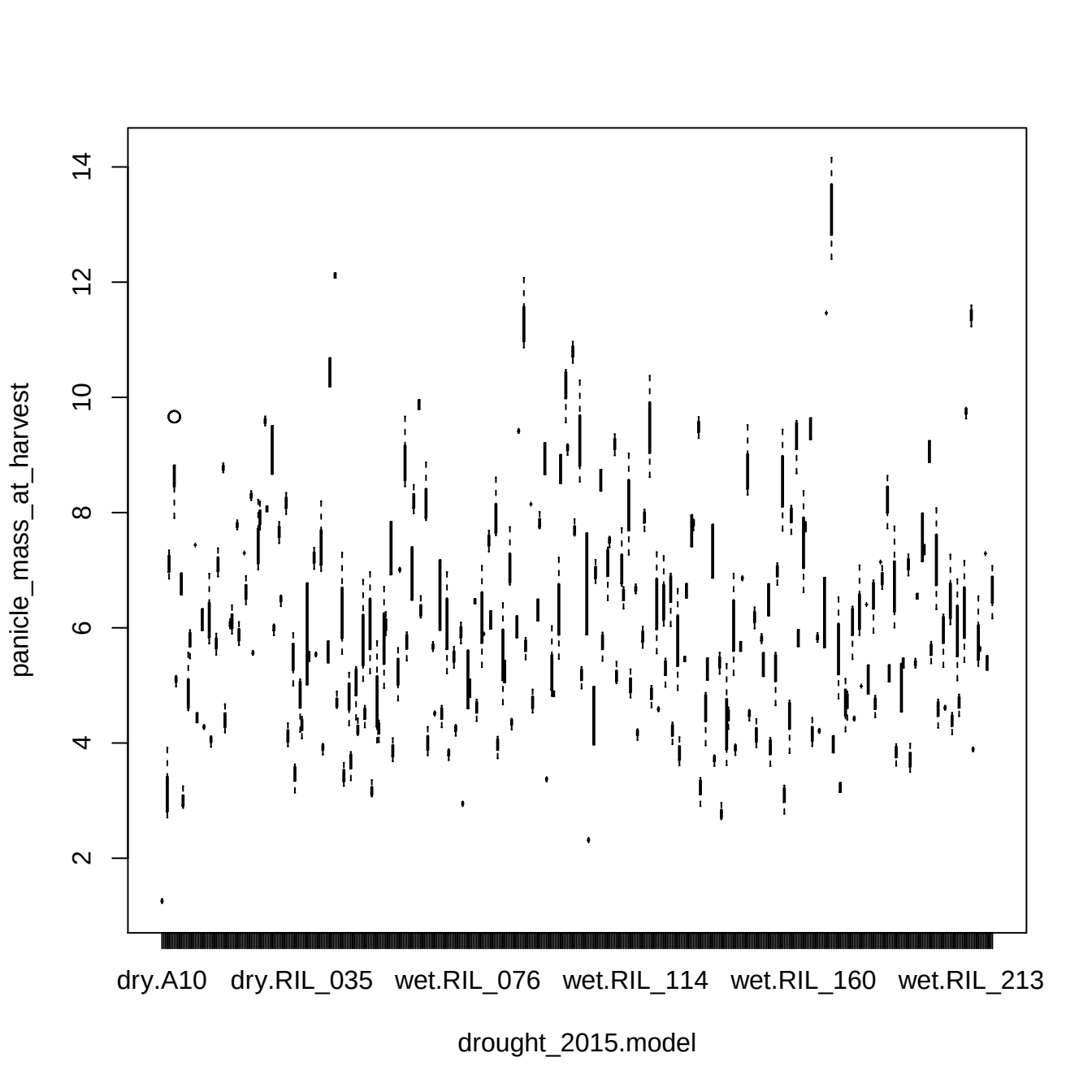

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
6
4
2
0
−2
−4
−3
−2
−1
0
1
2
3

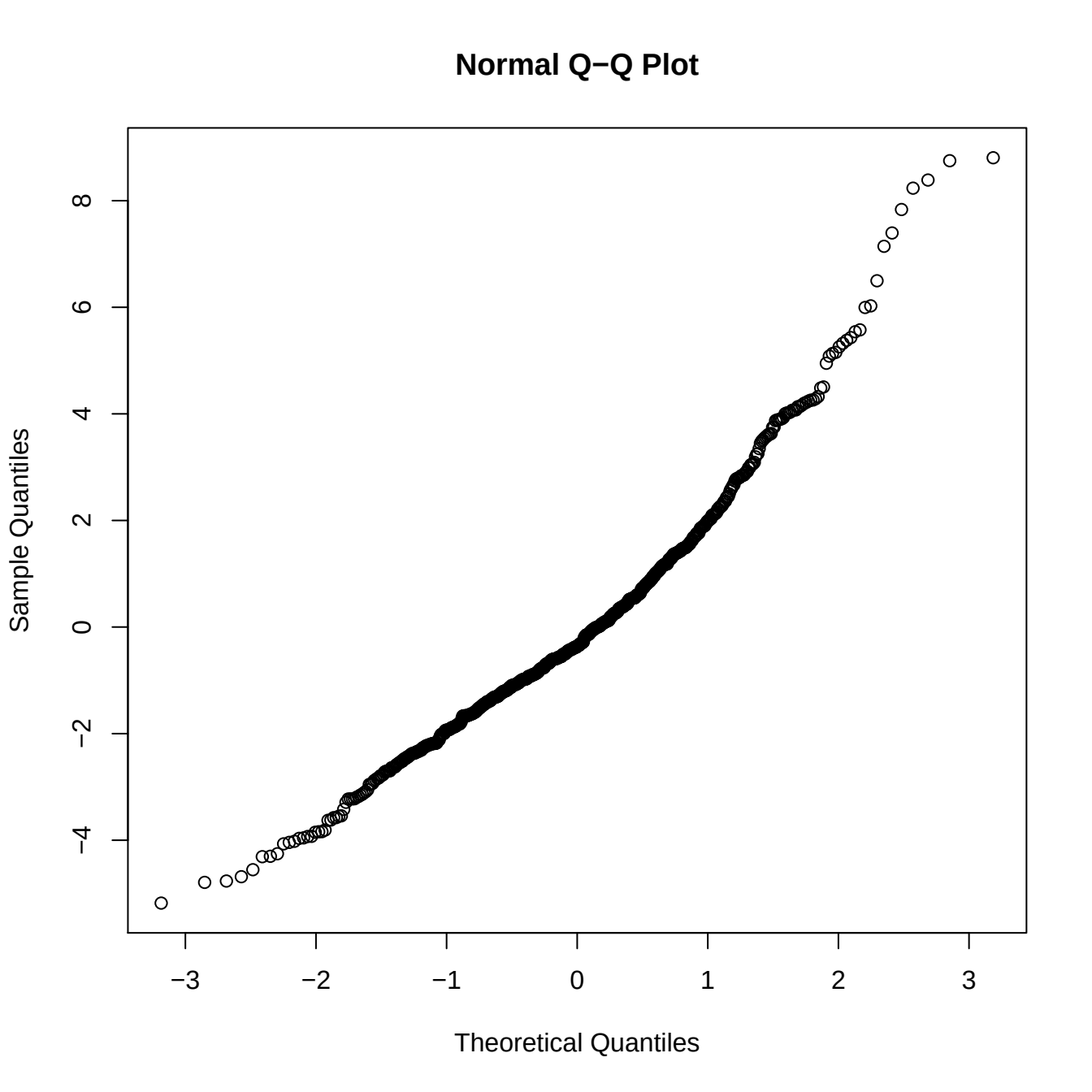

leaf_mass_at_harvest
0.5
1.0
1.5
2.0
2.5
3.0
3.5
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

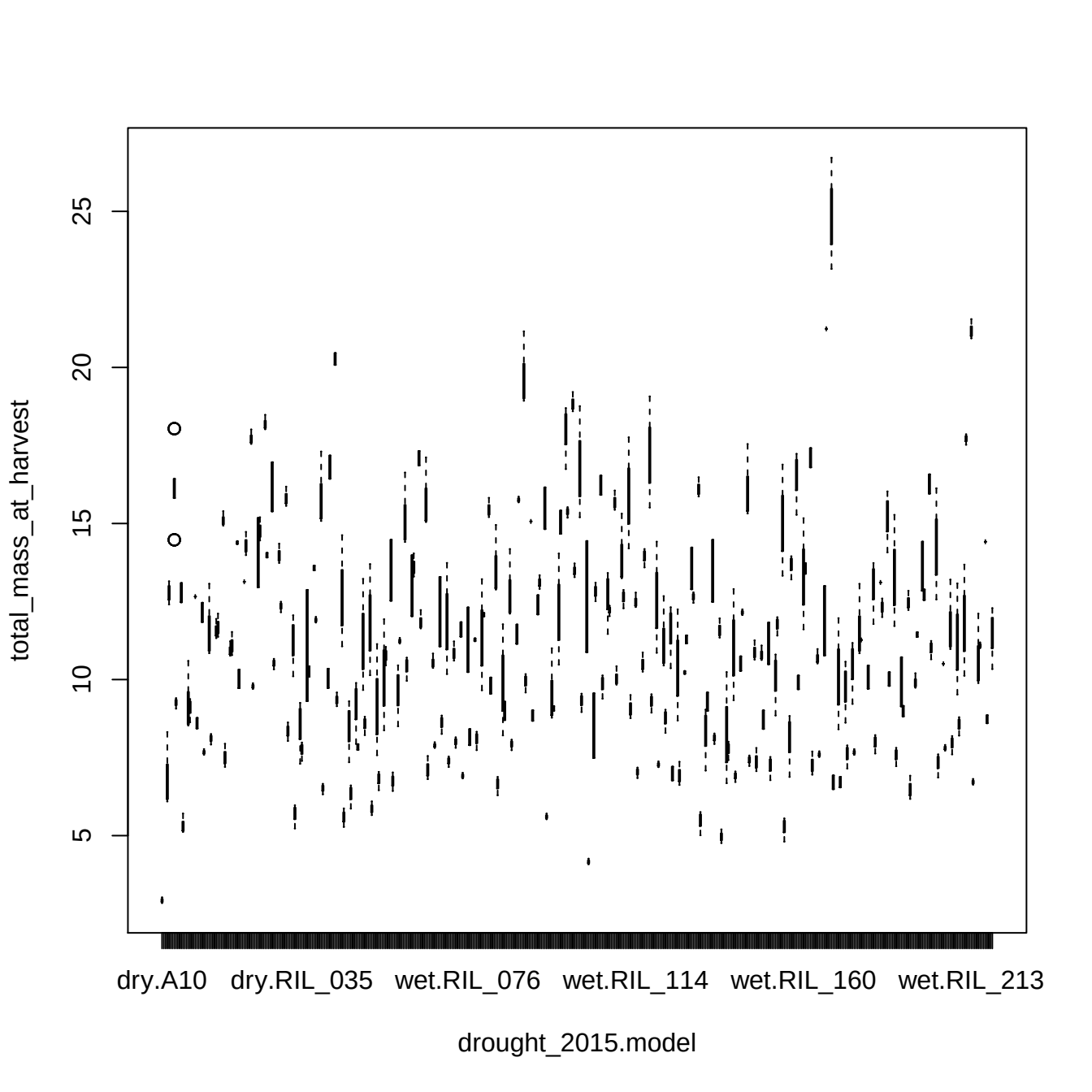

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−3
−2
−1
0
1
2
3
−1
0
1
2

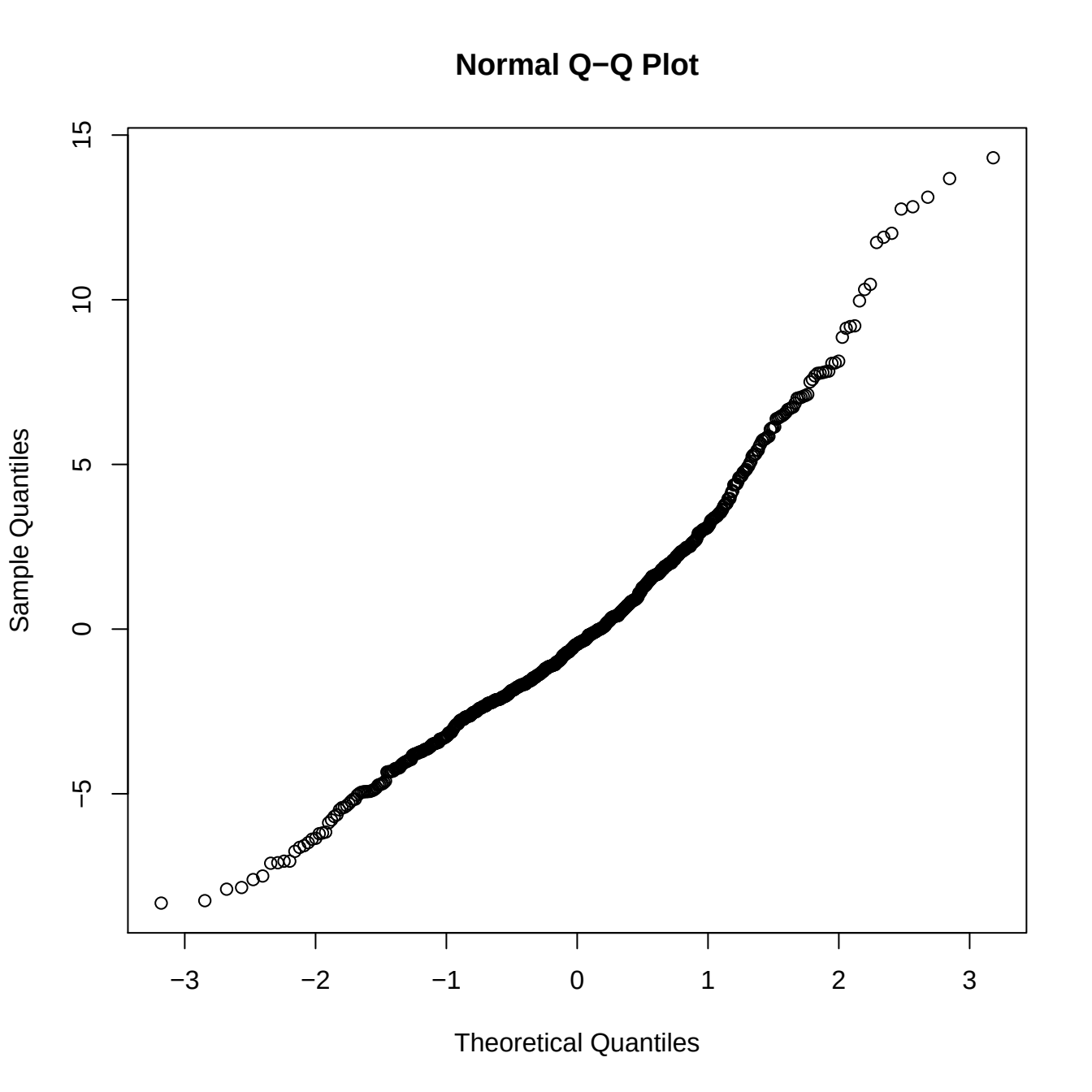

stem_mass_at_harvest
2
4
6
8
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

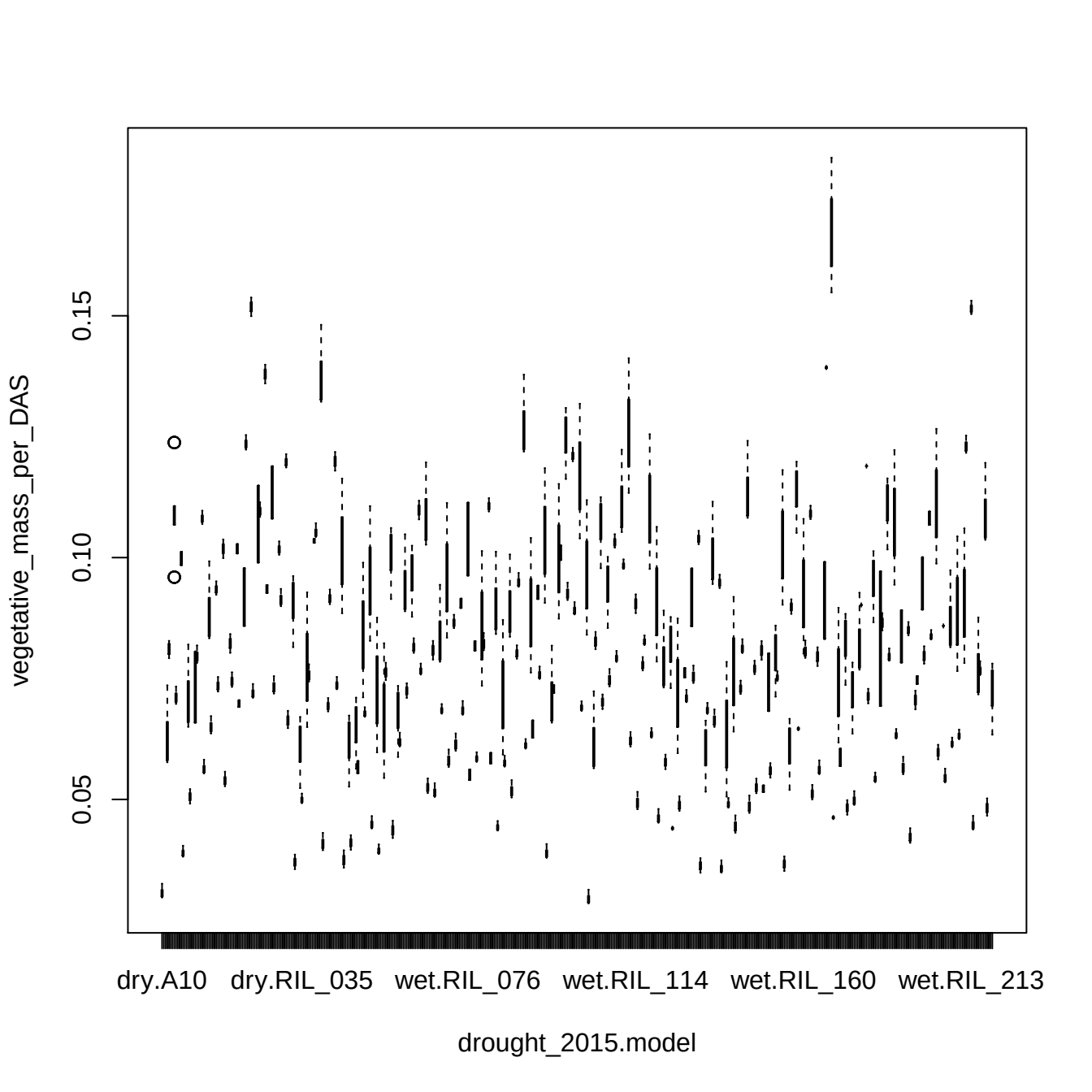

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−3
−2
−1
0
1
2
3
−2
0
2
4

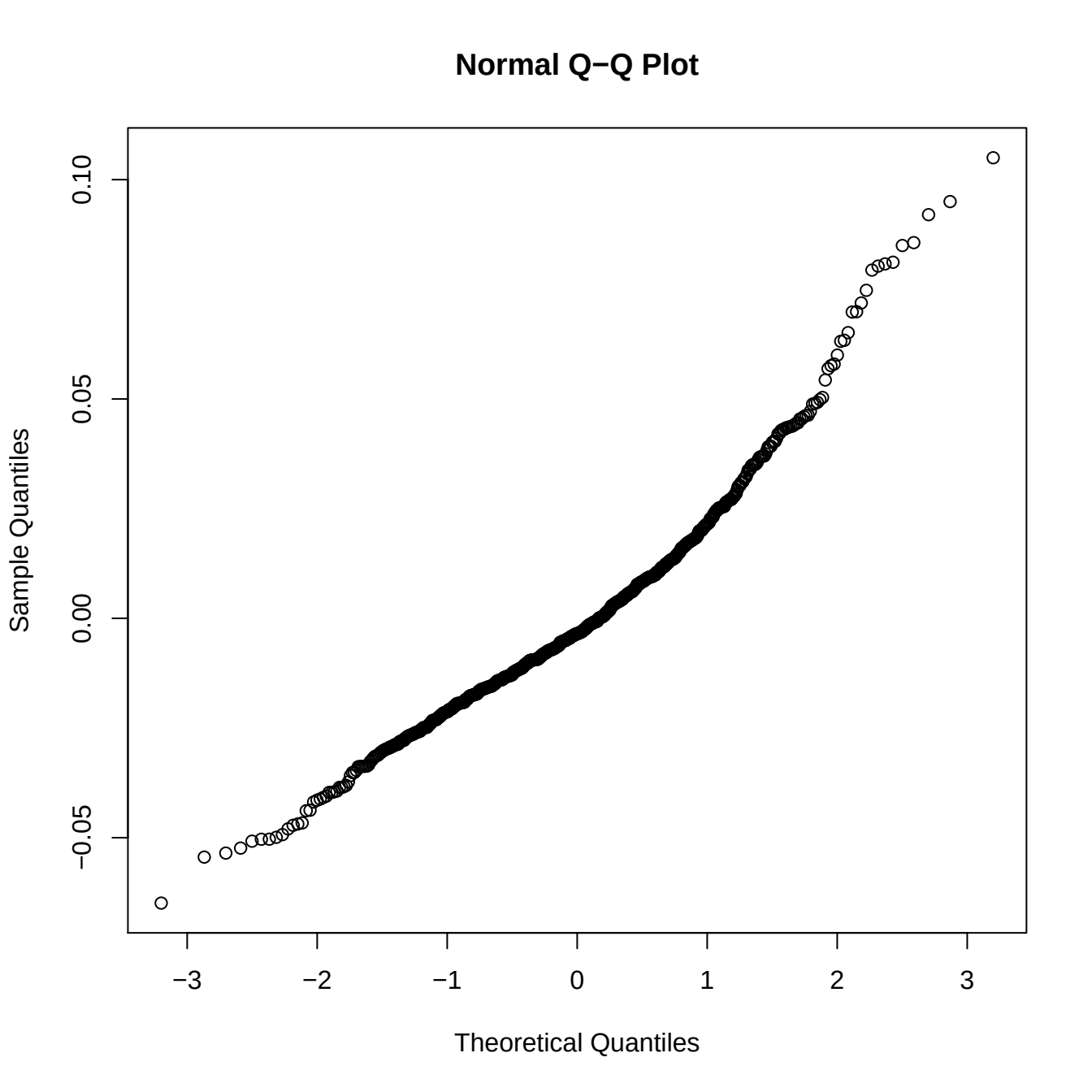

panicle_mass_at_harvest
2
4
6
8
10
12
14
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

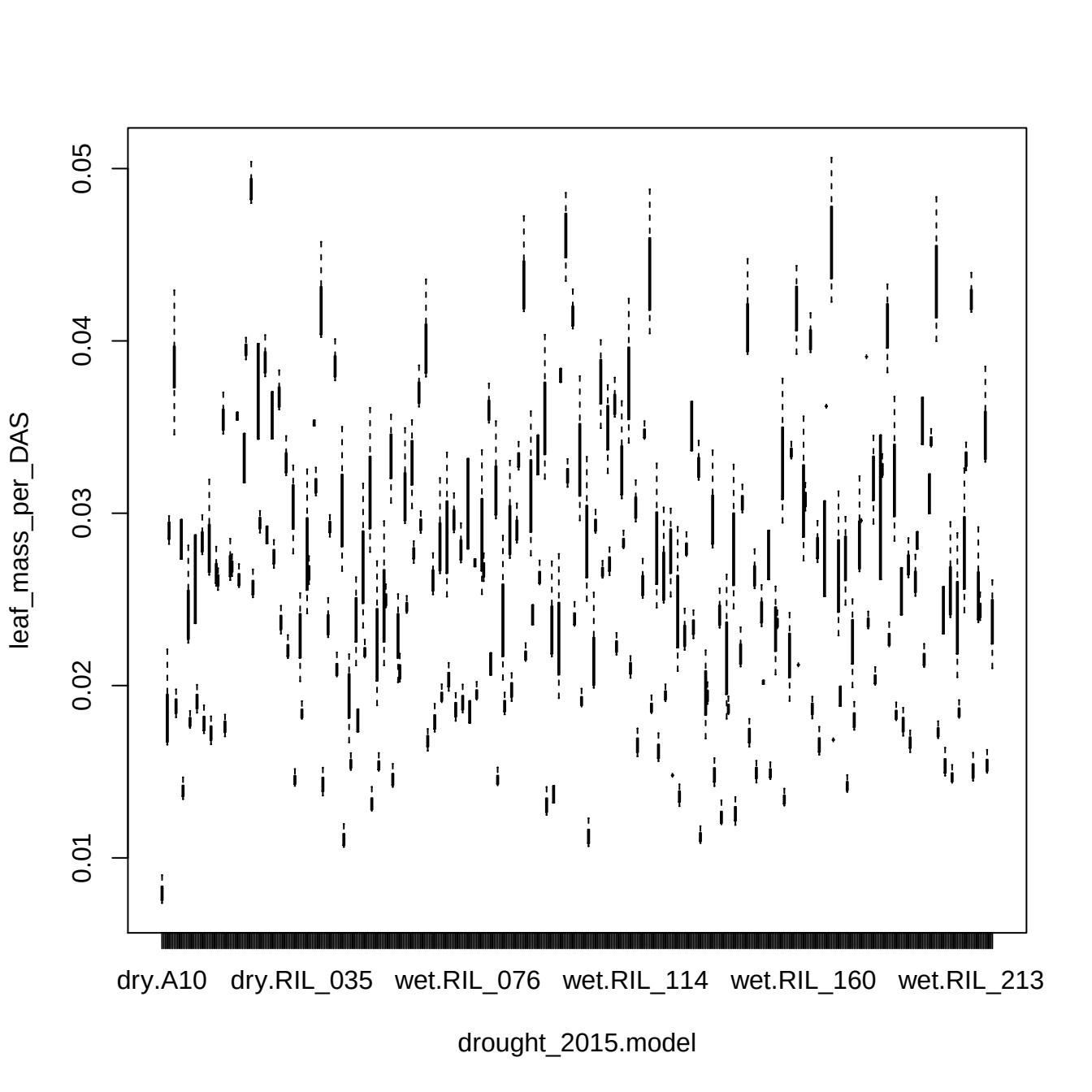

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
8
6
4
2
0
−2
−4
−3
−2
−1
0
1
2
3

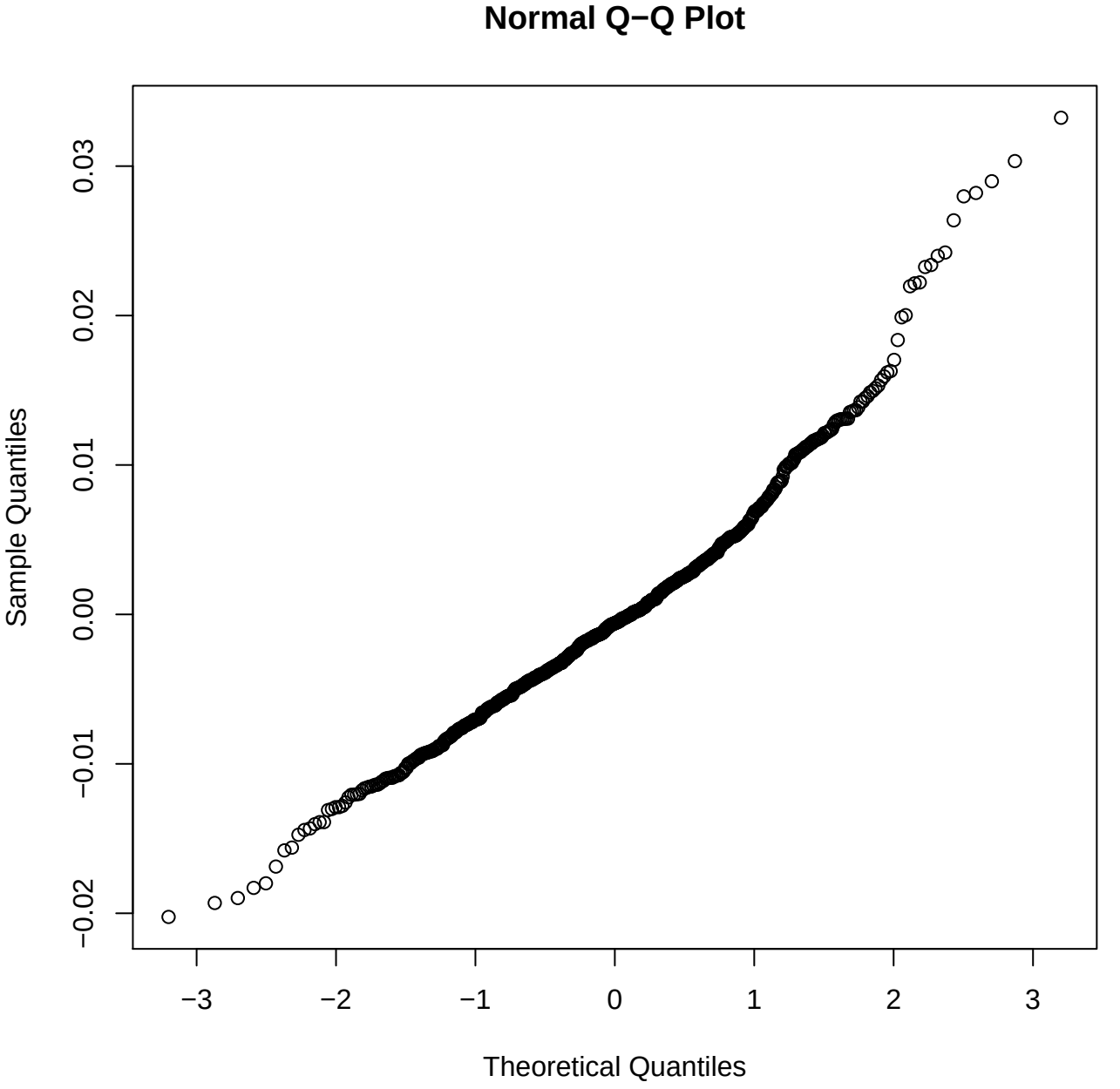

total_mass_at_harvest
5
10
15
20
25
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

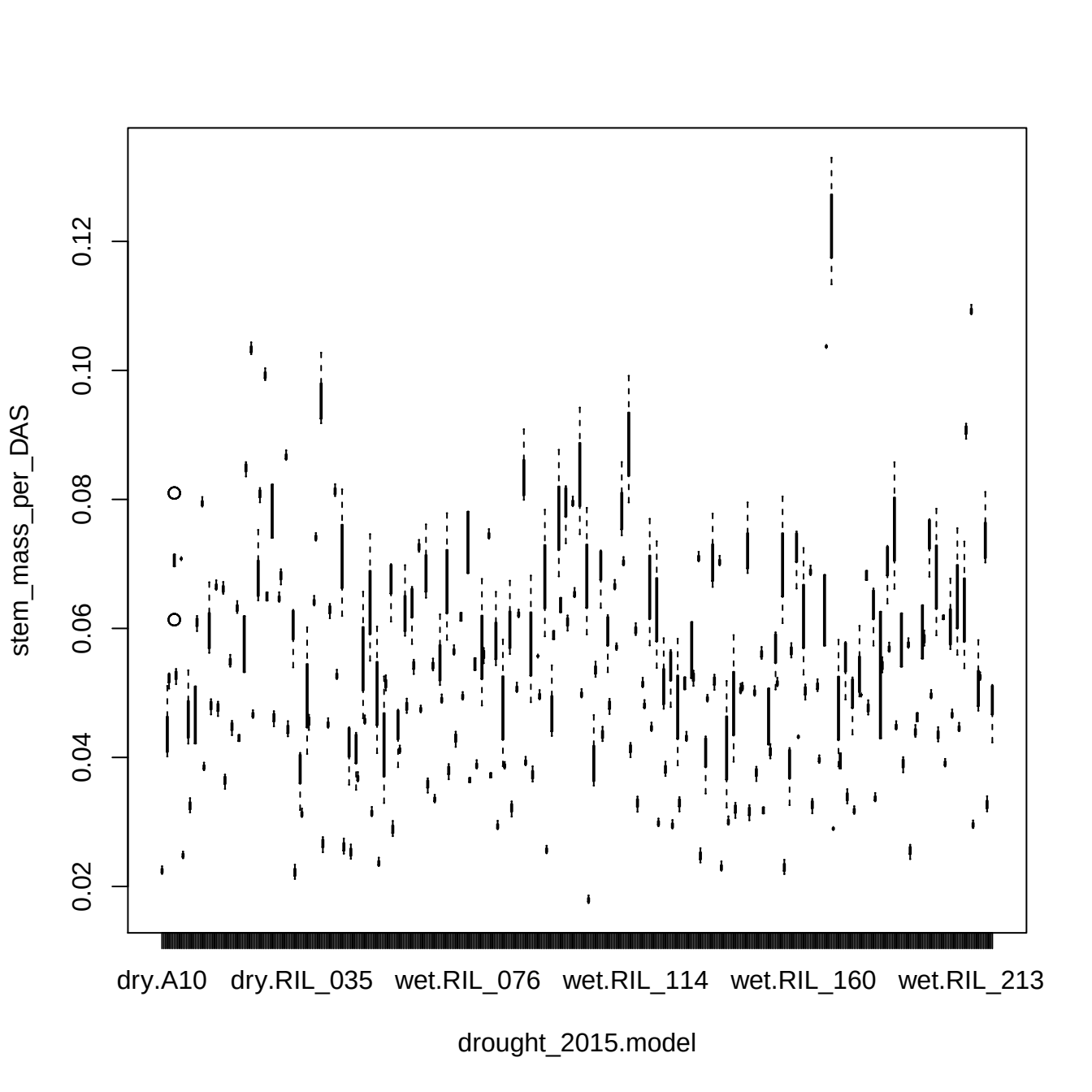

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
15
10
5
0
−5
−3
−2
−1
0
1
2
3

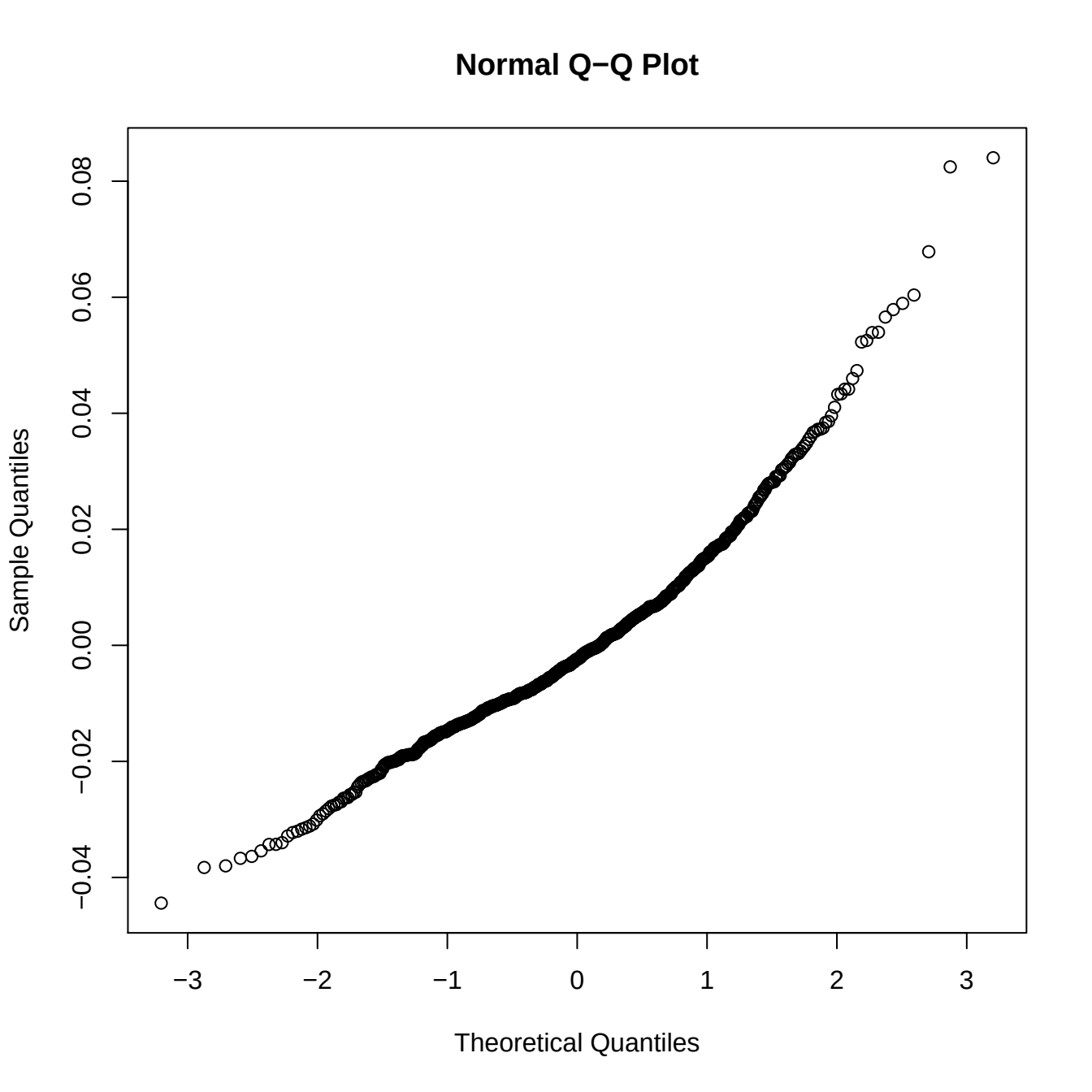

vegetative_mass_per_DAS
0.05
0.10
0.15
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

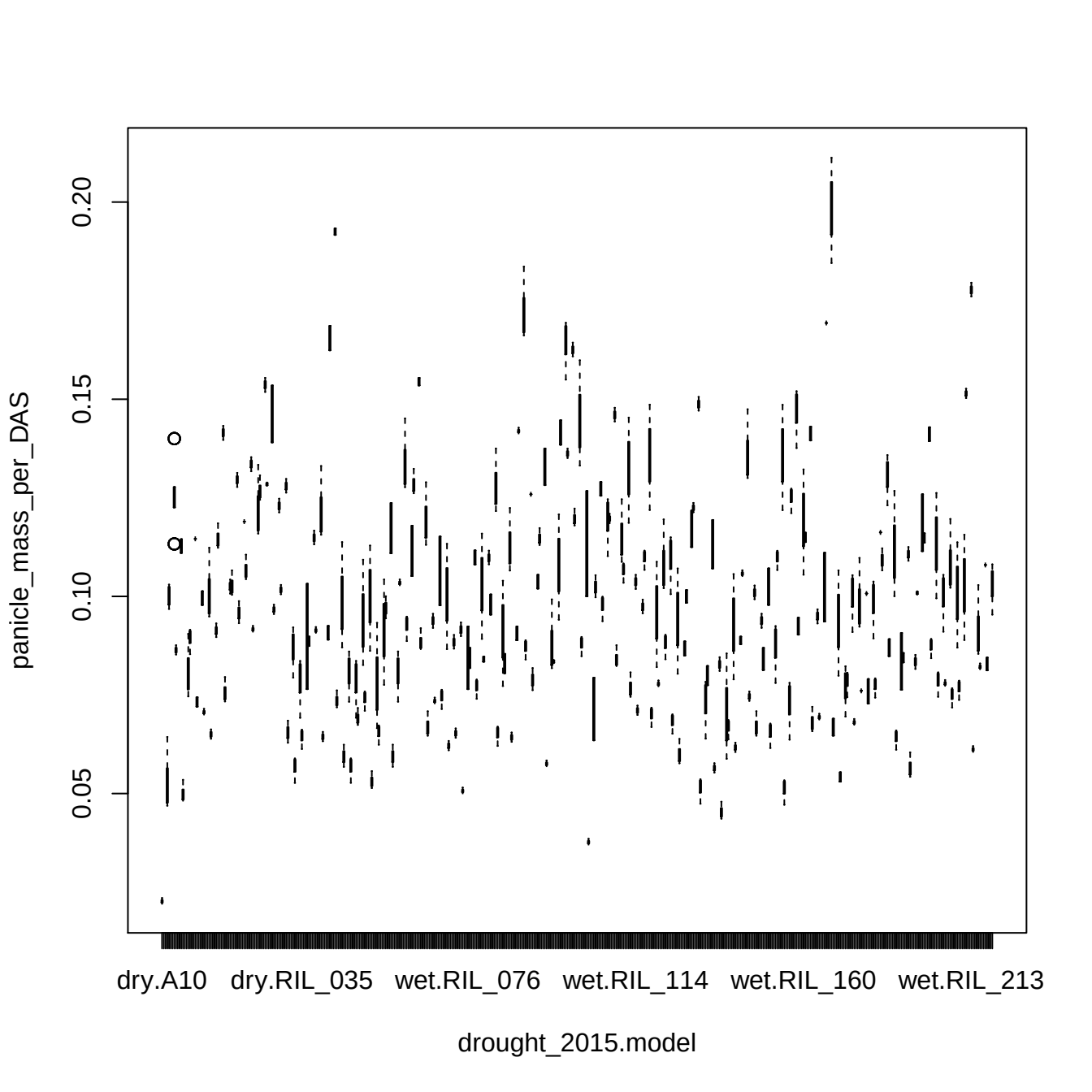

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.10
0.05
0.00
−0.05
−3
−2
−1
0
1
2
3

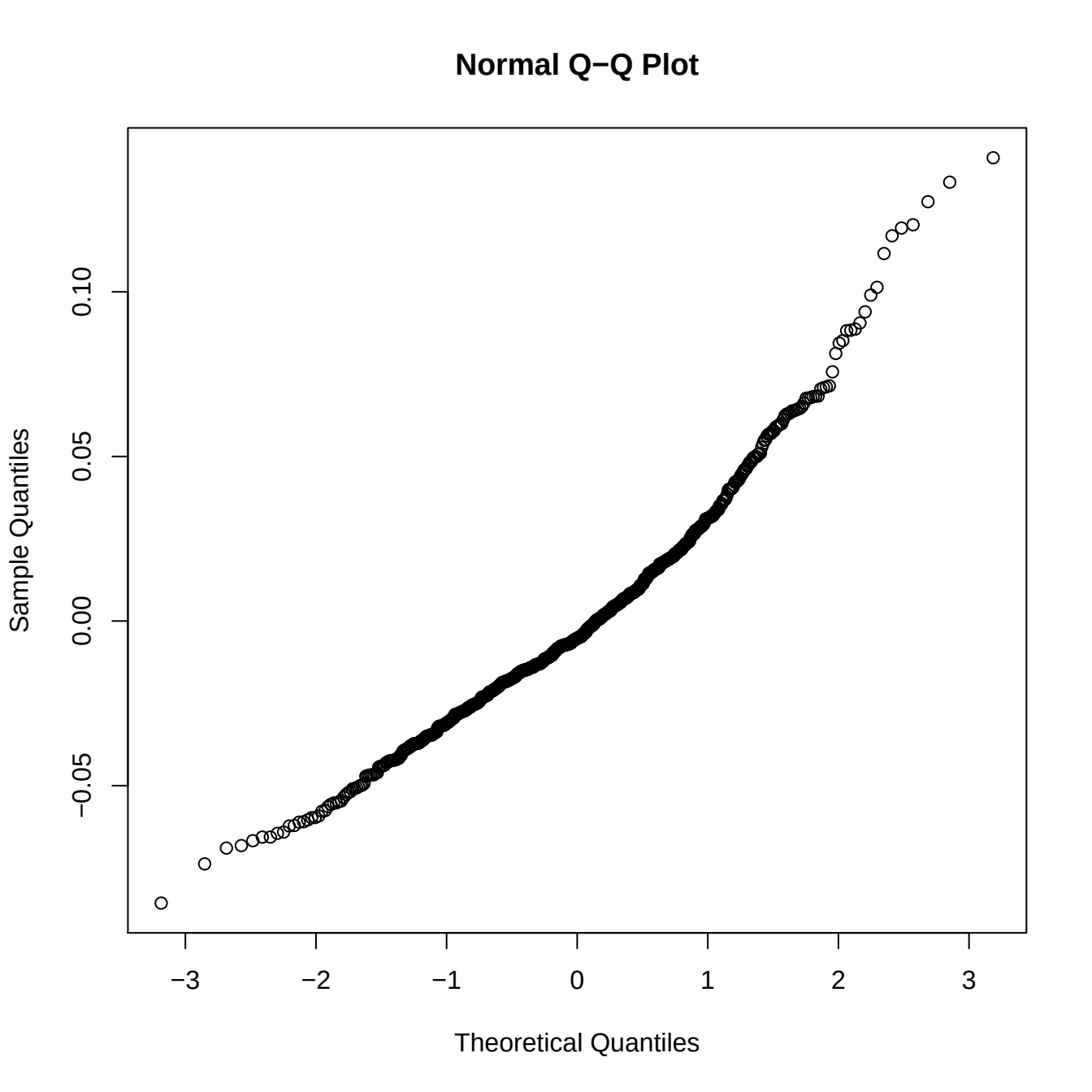

leaf_mass_per_DAS
0.01
0.02
0.03
0.04
0.05
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

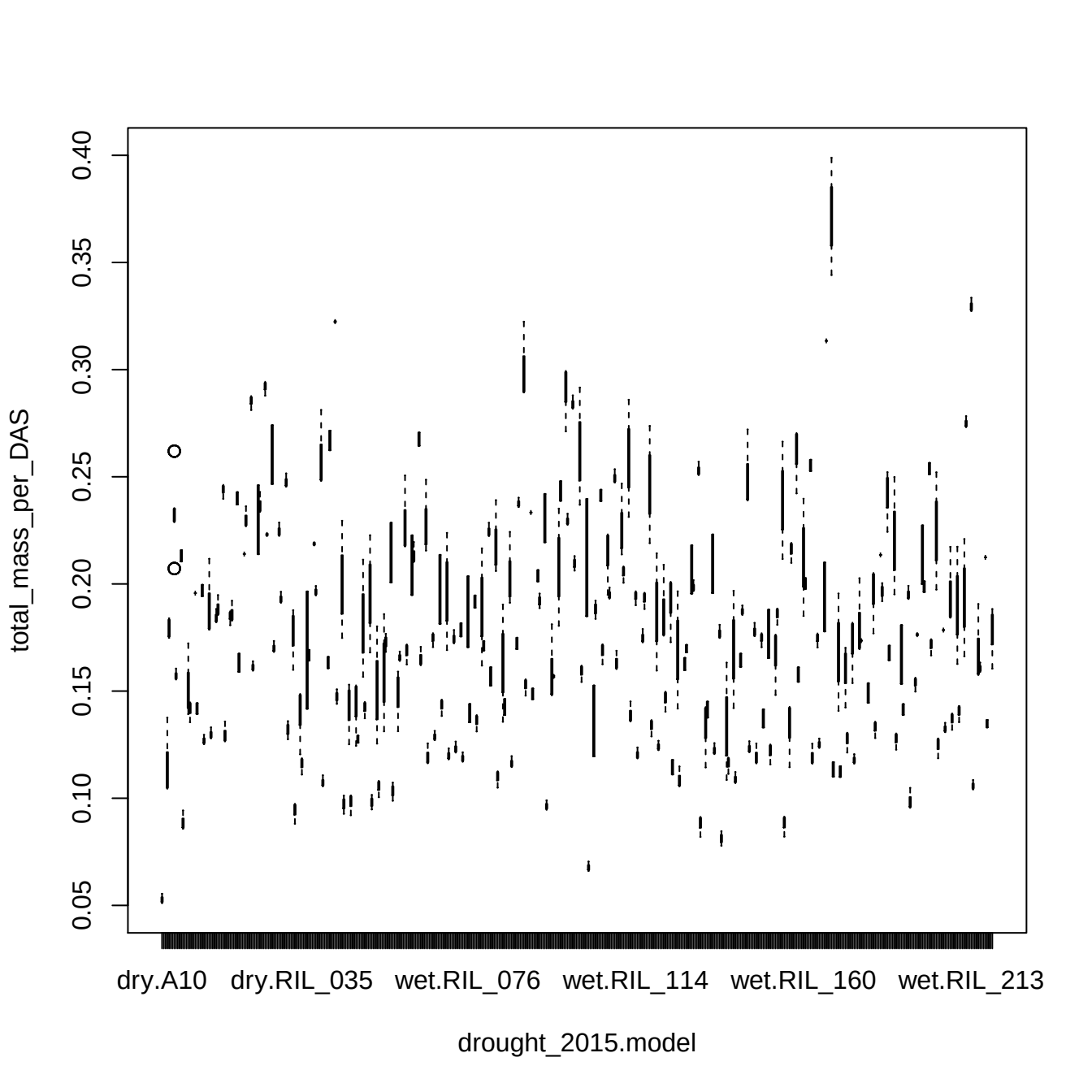

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.03
0.02
0.01
0.00
−0.01
−0.02
−3
−2
−1
0
1
2
3

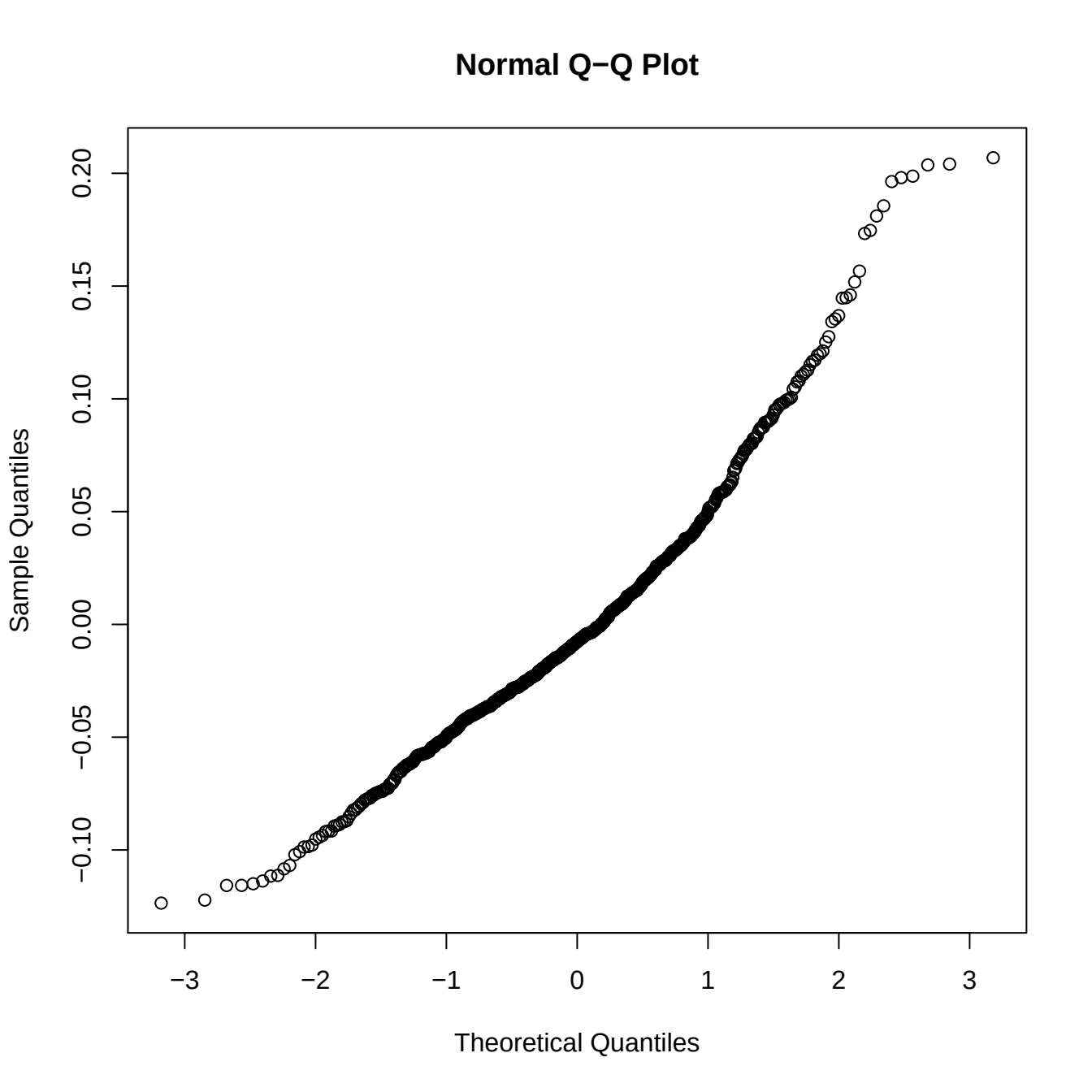

stem_mass_per_DAS
0.02
0.04
0.06
0.08
0.10
0.12
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

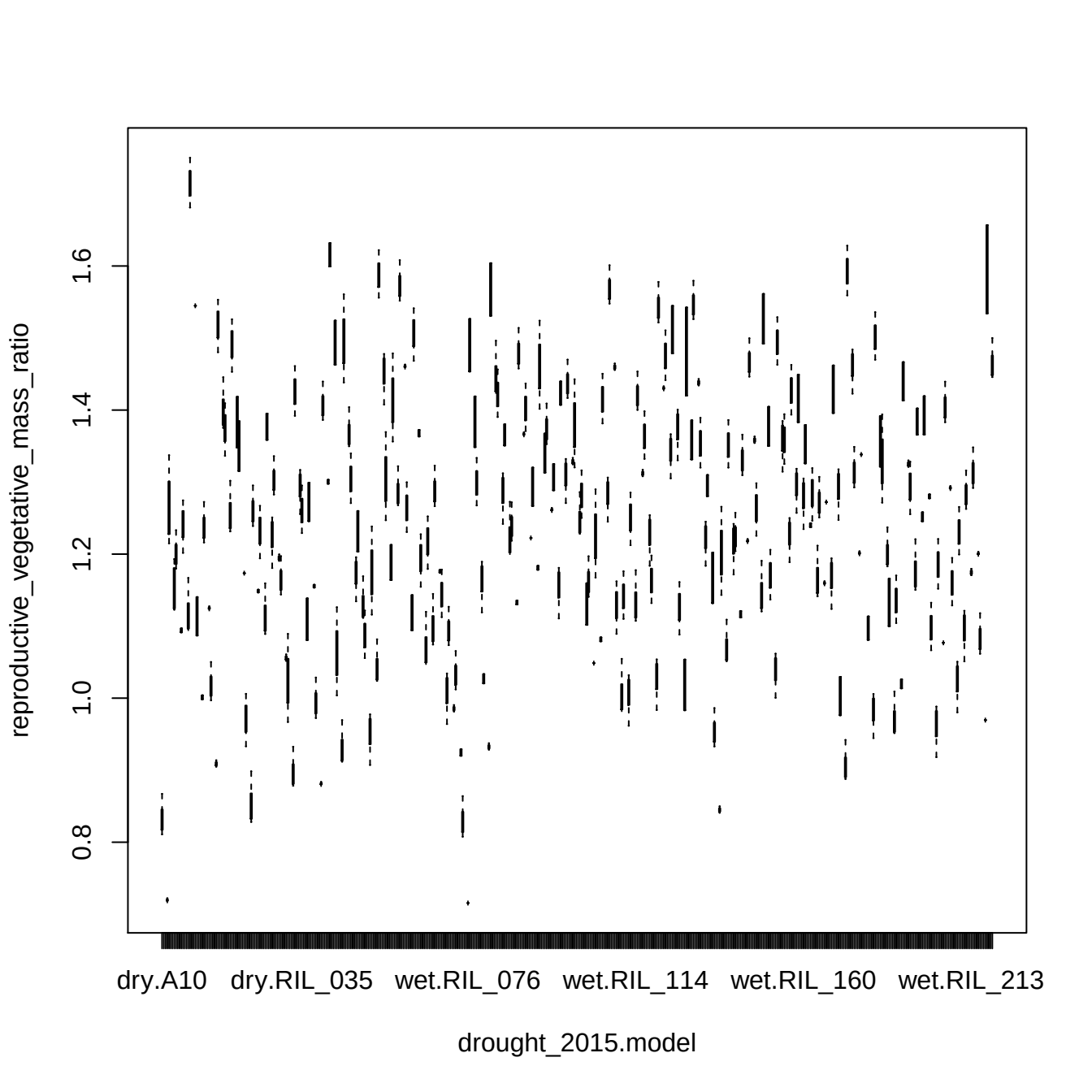

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
−3
−2
−1
0
1
2
3

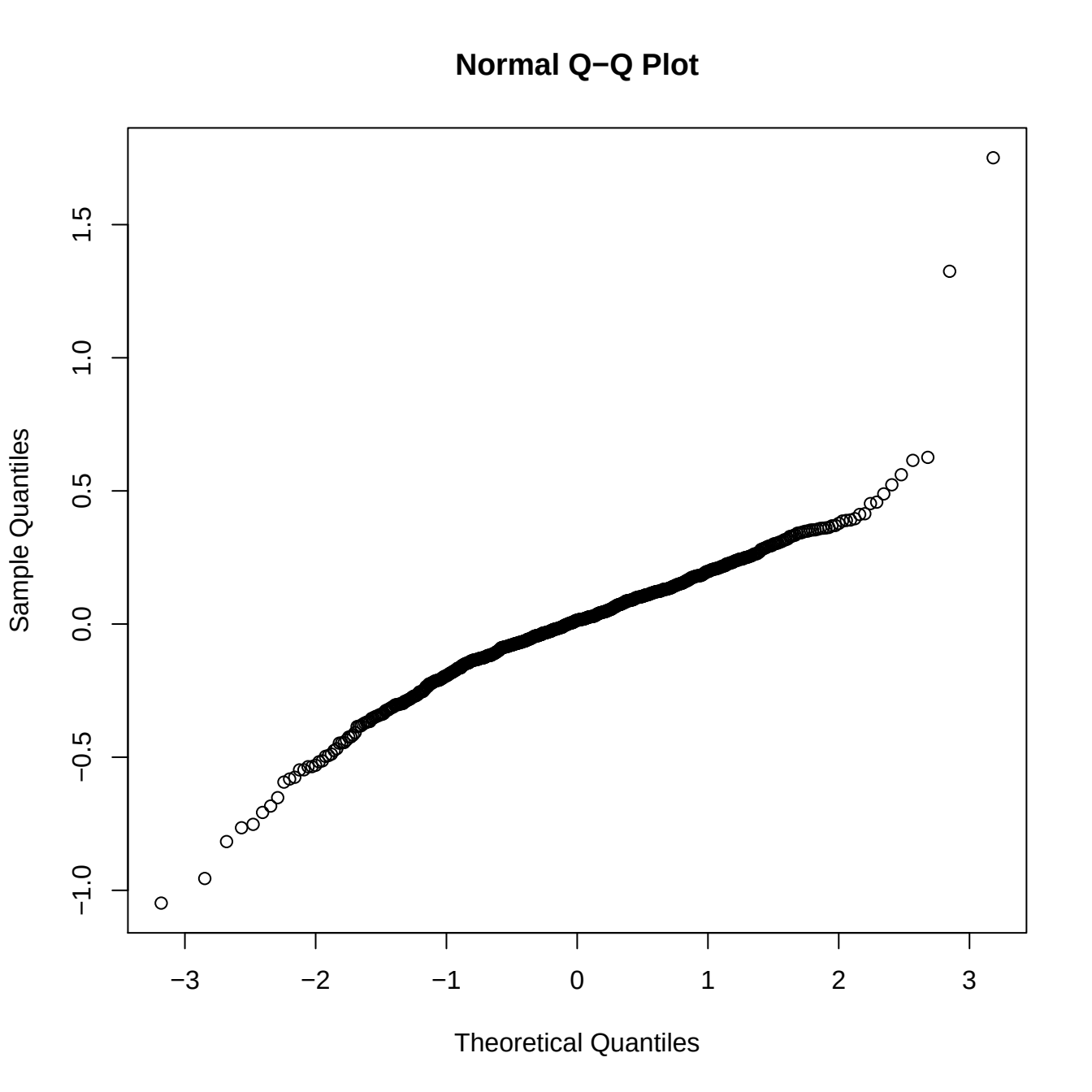

panicle_mass_per_DAS
0.05
0.10
0.15
0.20
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

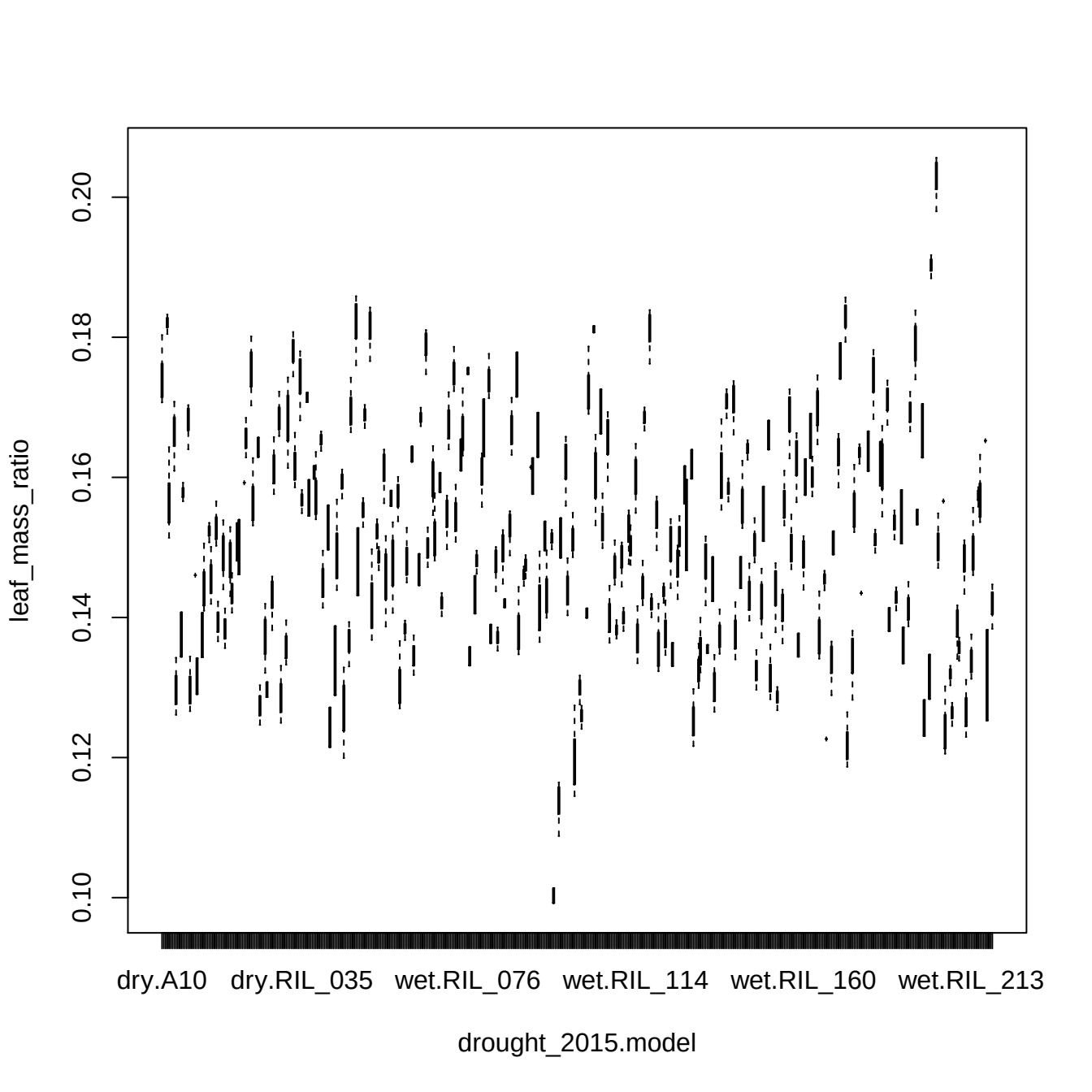

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.10
0.05
0.00
−0.05
−3
−2
−1
0
1
2
3

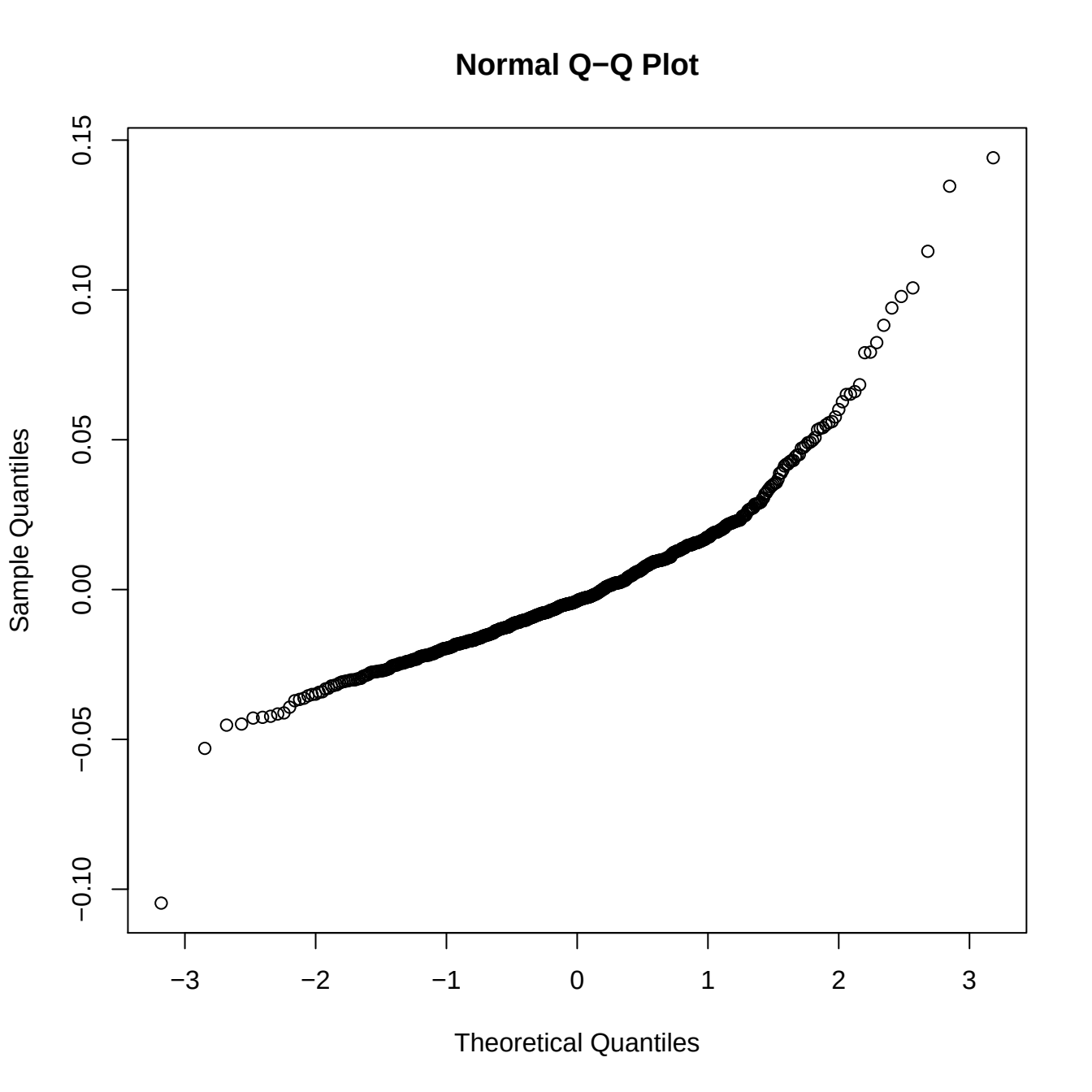

total_mass_per_DAS
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

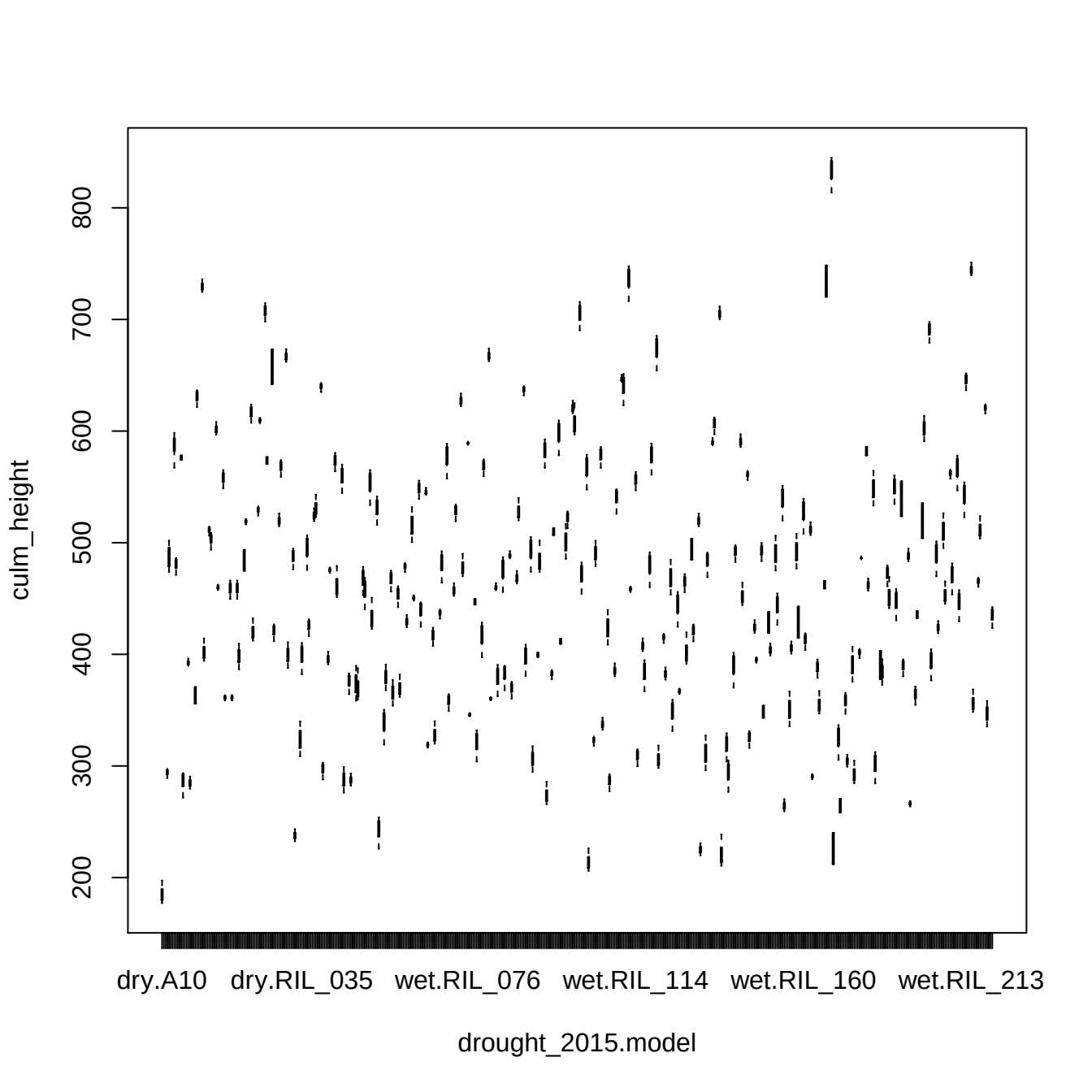

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−3
−2
−1
0
1
2
3

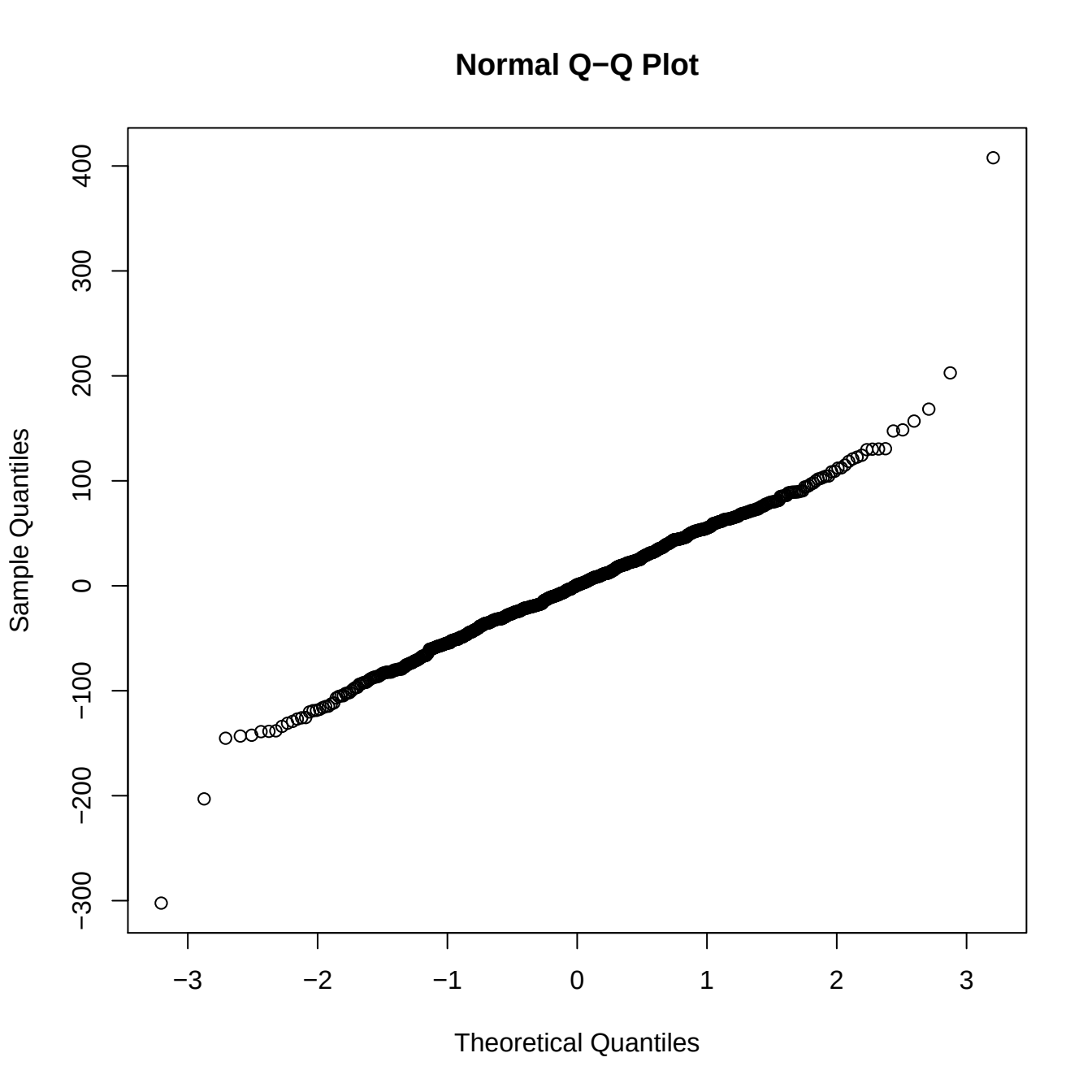

reproductive_vegetative_mass_ratio
0.8
1.0
1.2
1.4
1.6
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

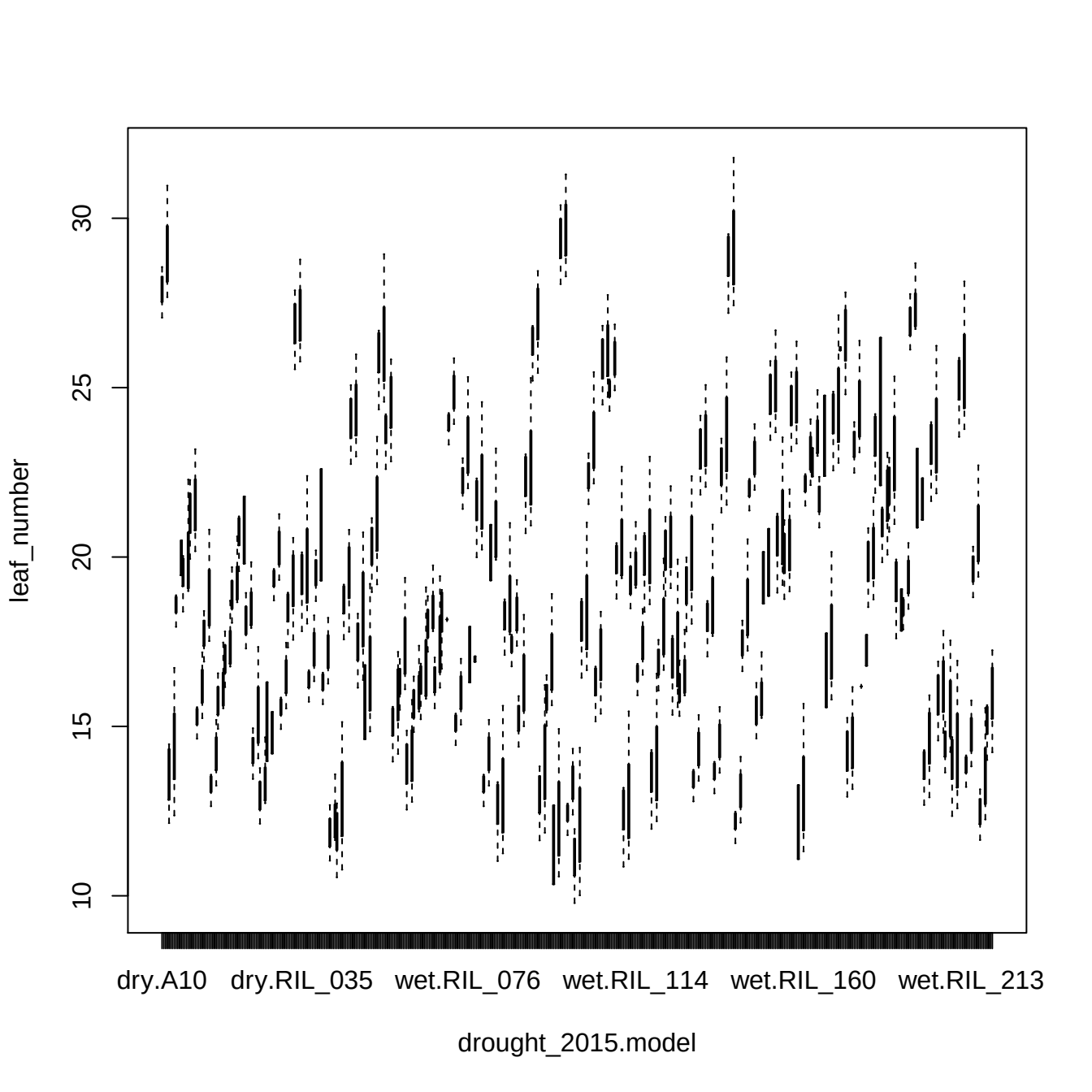

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−1.0
−0.5
0.0
0.5
1.0
1.5
−3
−2
−1
0
1
2
3

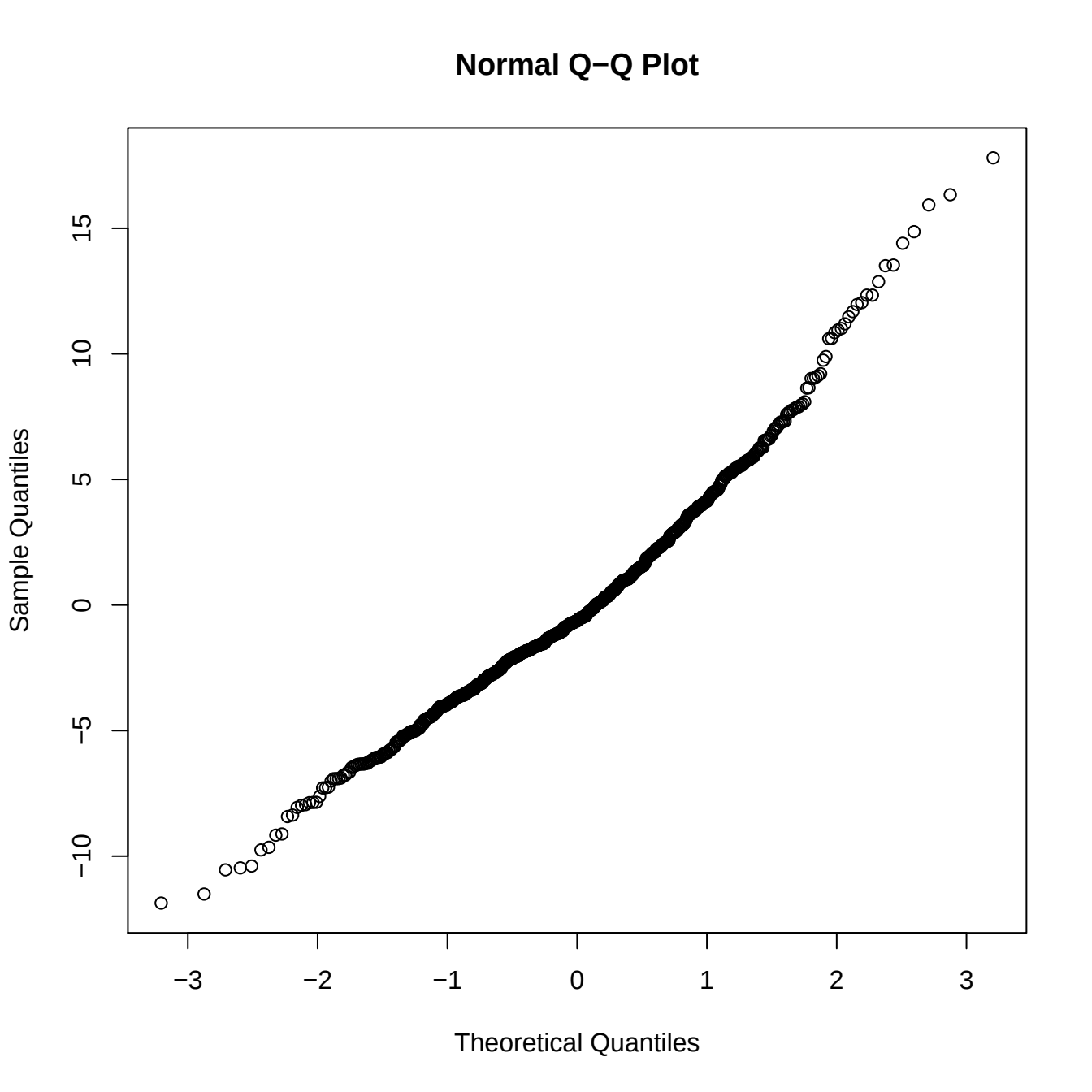

leaf_mass_ratio
0.10
0.12
0.14
0.16
0.18
0.20
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

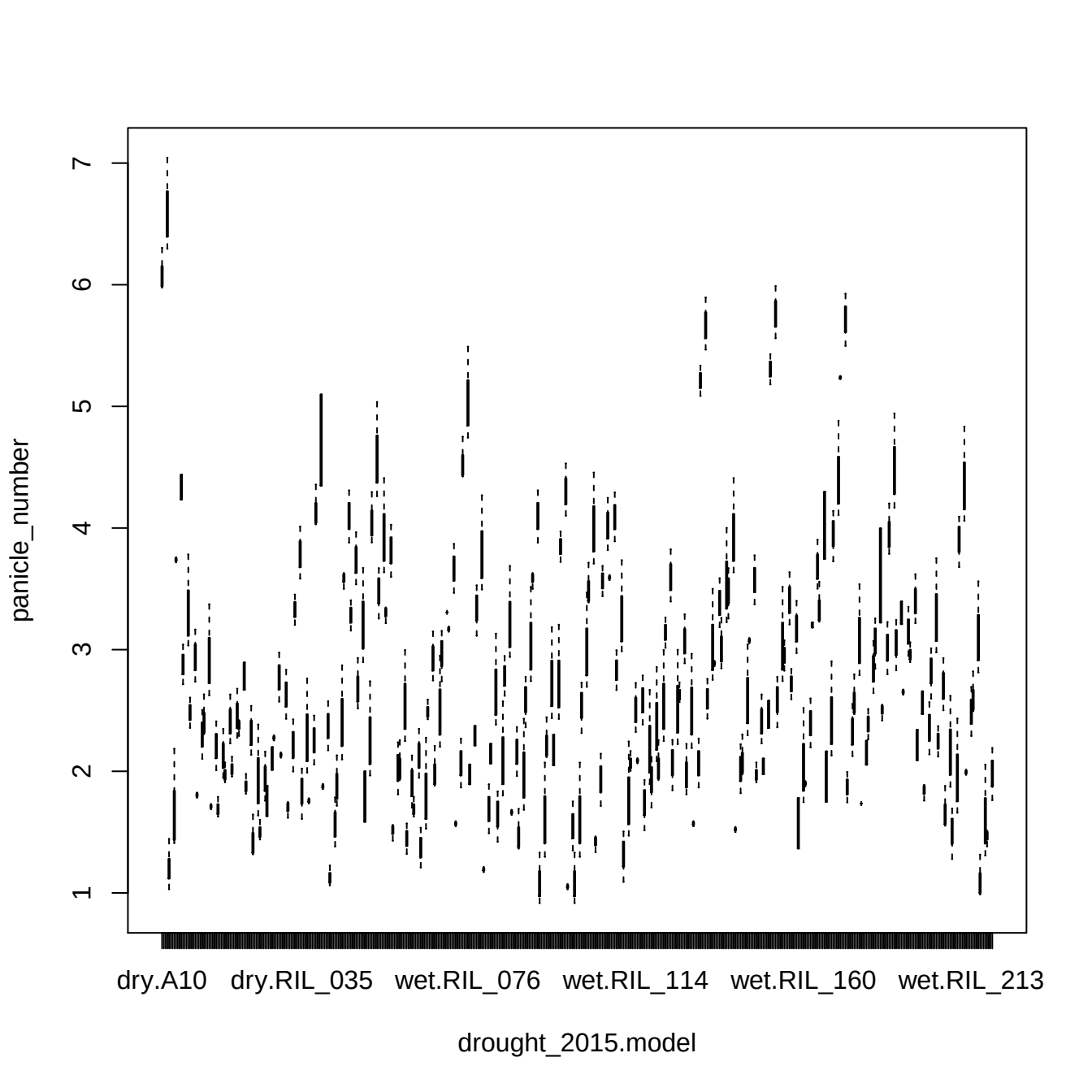

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.15
0.10
0.05
0.00
−0.05
−0.10
−3
−2
−1
0
1
2
3

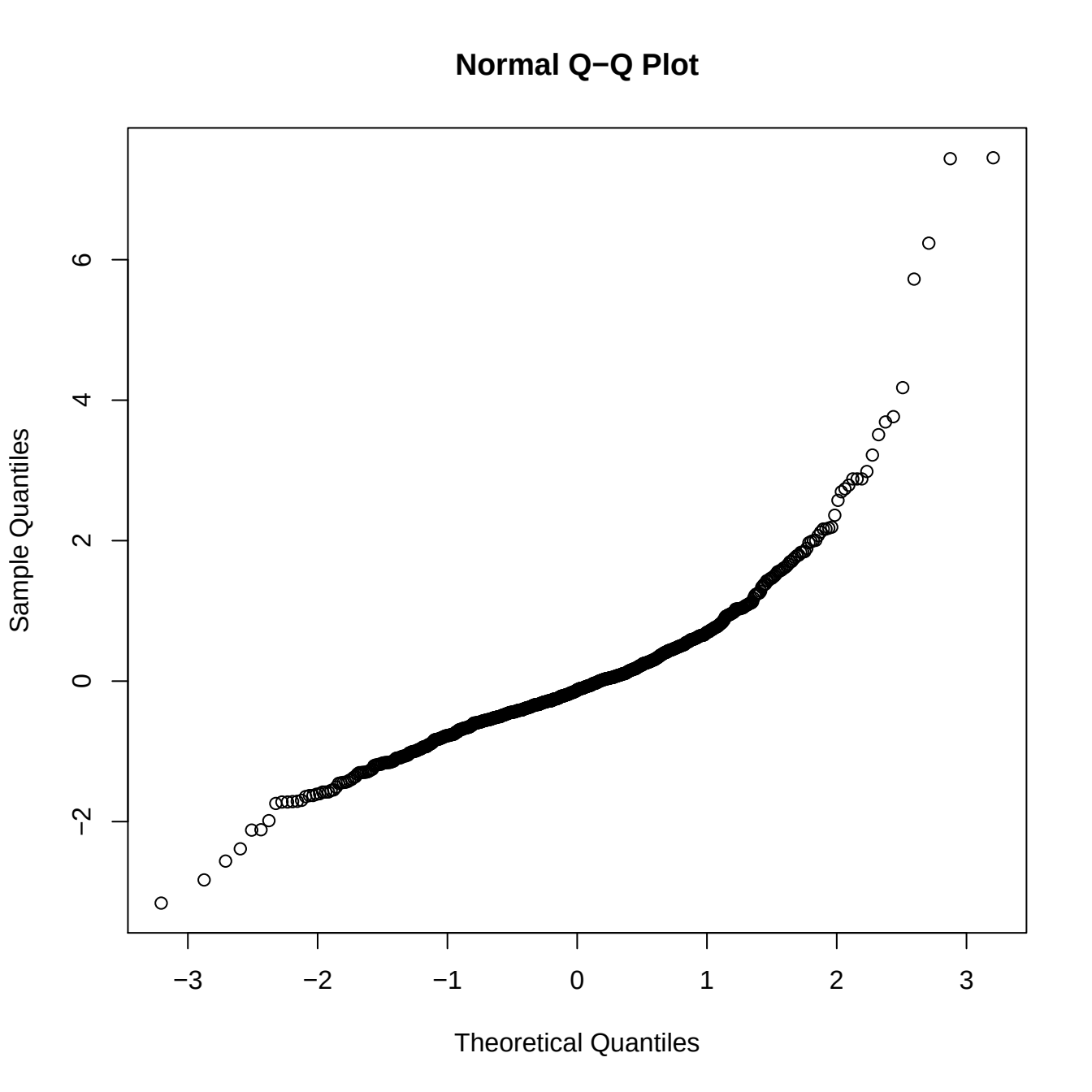

culm_height
200
300
400
500
600
700
800
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

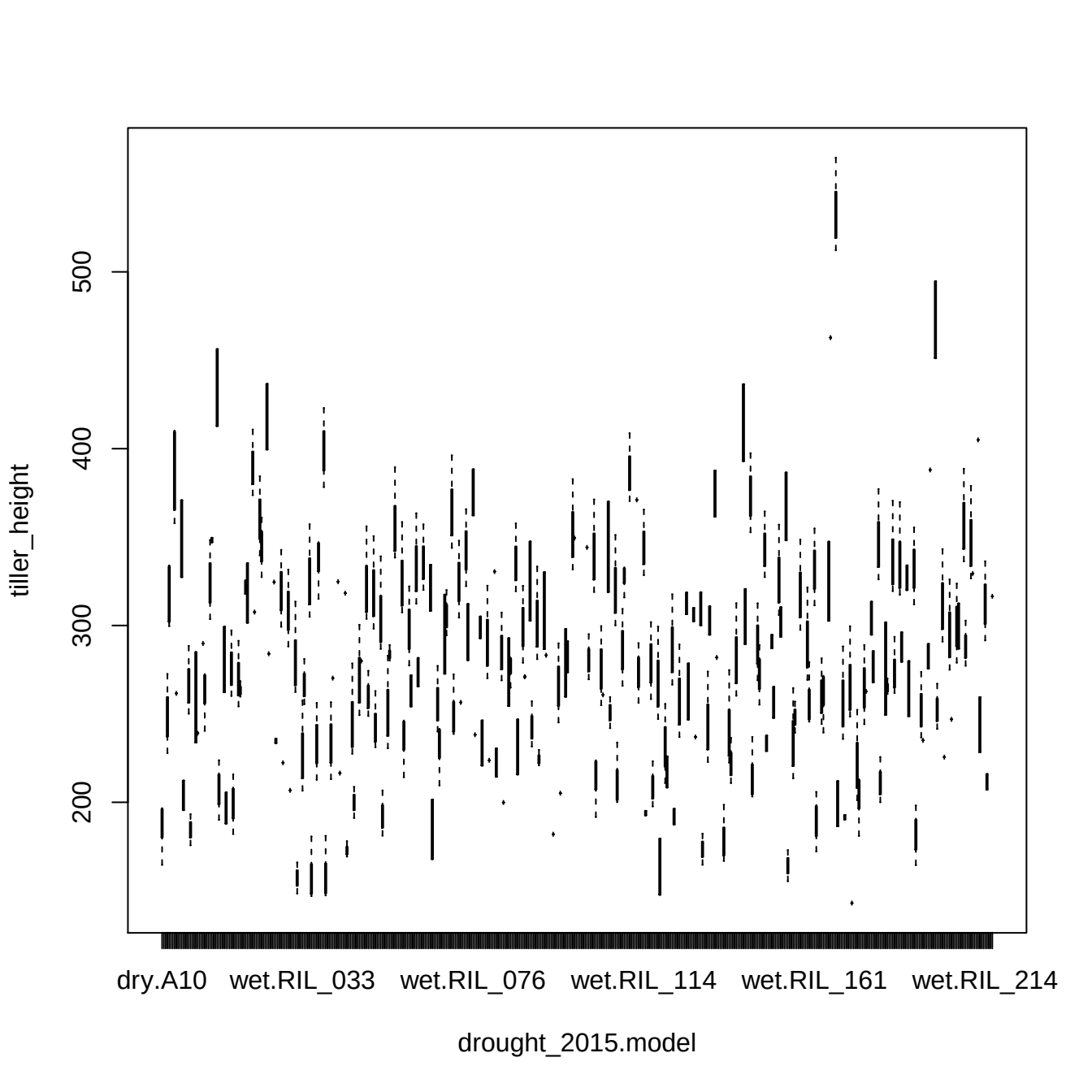

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
400
300
200
100
0
−100
−200
−300
−3
−2
−1
0
1
2
3

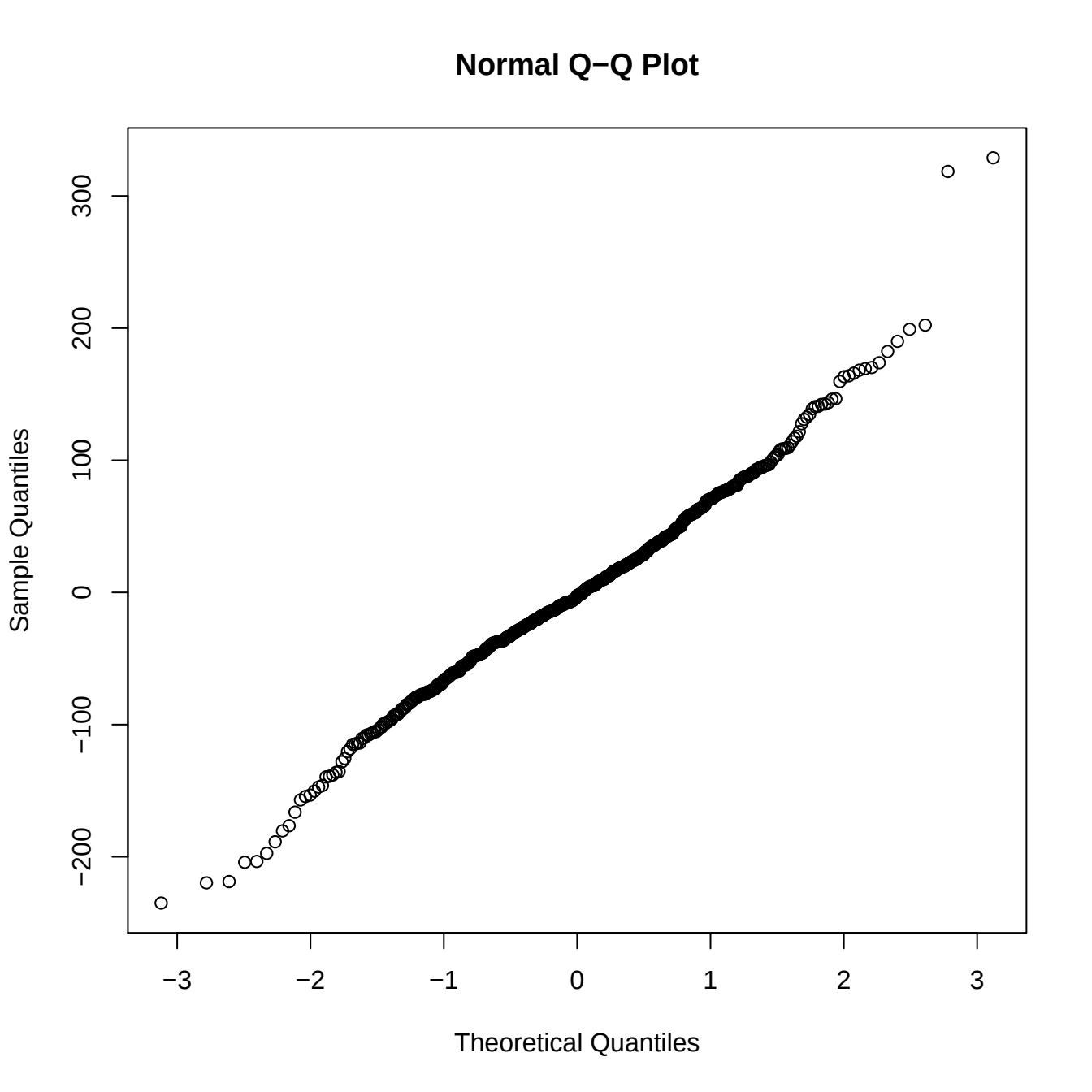

leaf_number
10
15
20
25
30
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

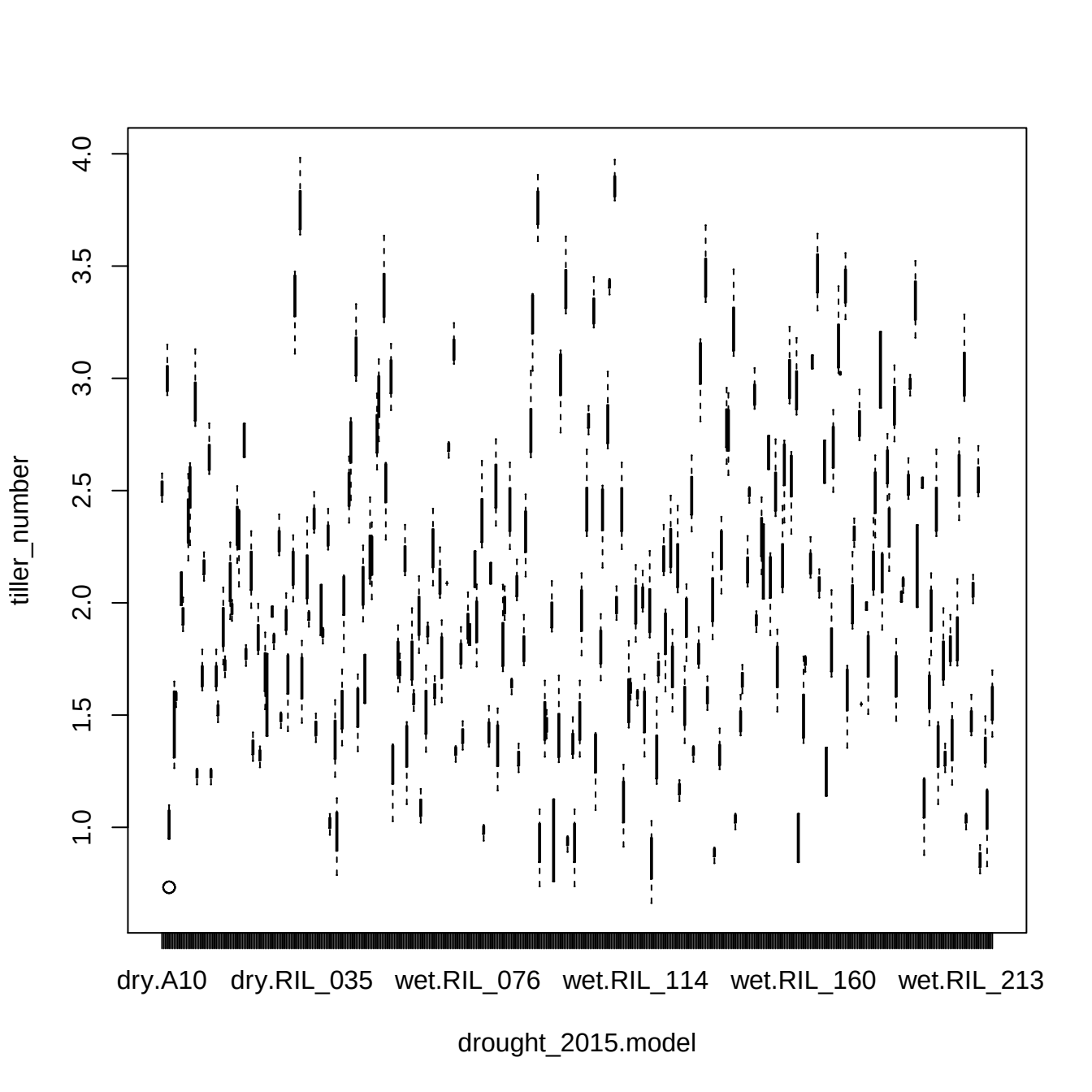

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
15
10
5
0
−5
−10
−3
−2
−1
0
1
2
3

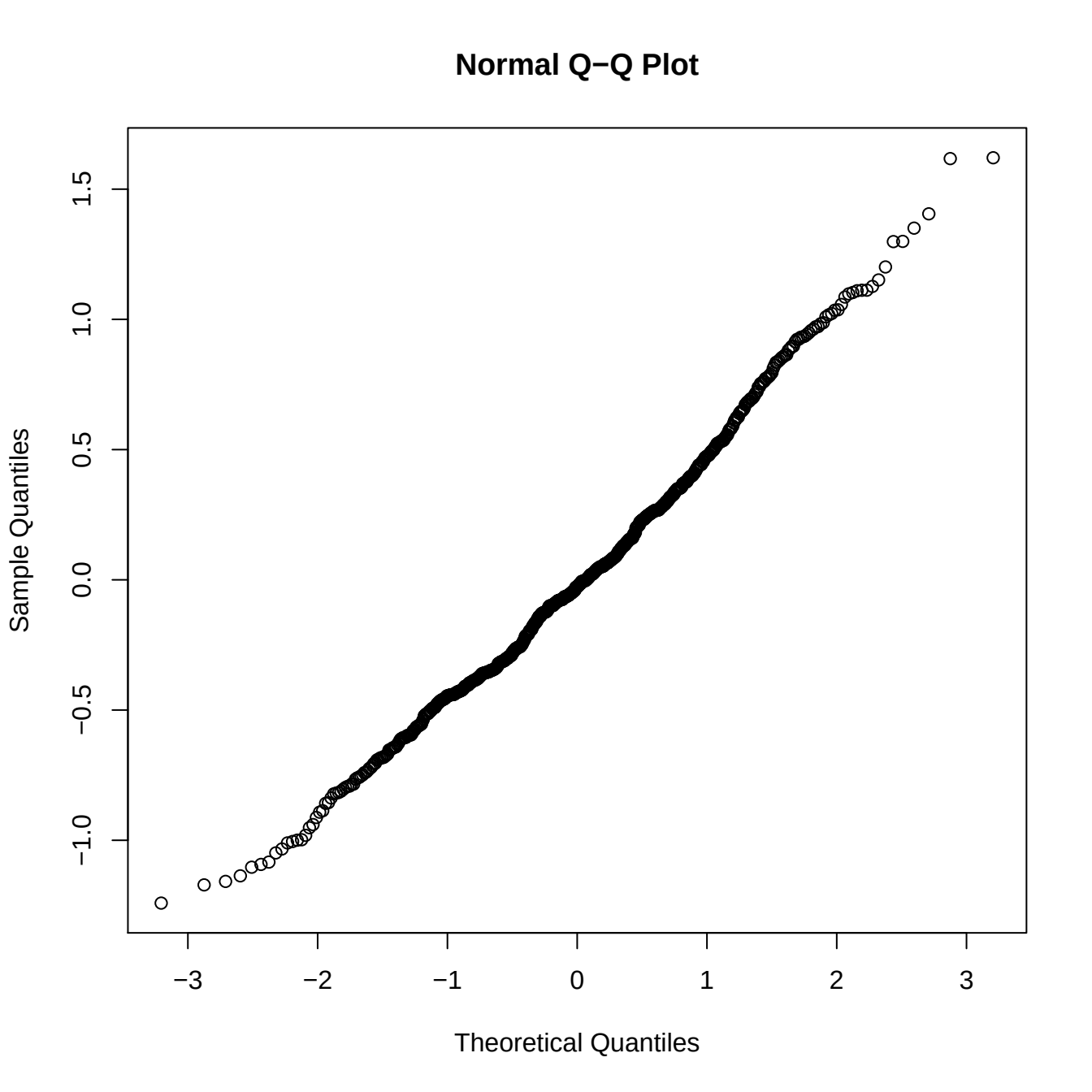

panicle_number
1
2
3
4
5
6
7
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

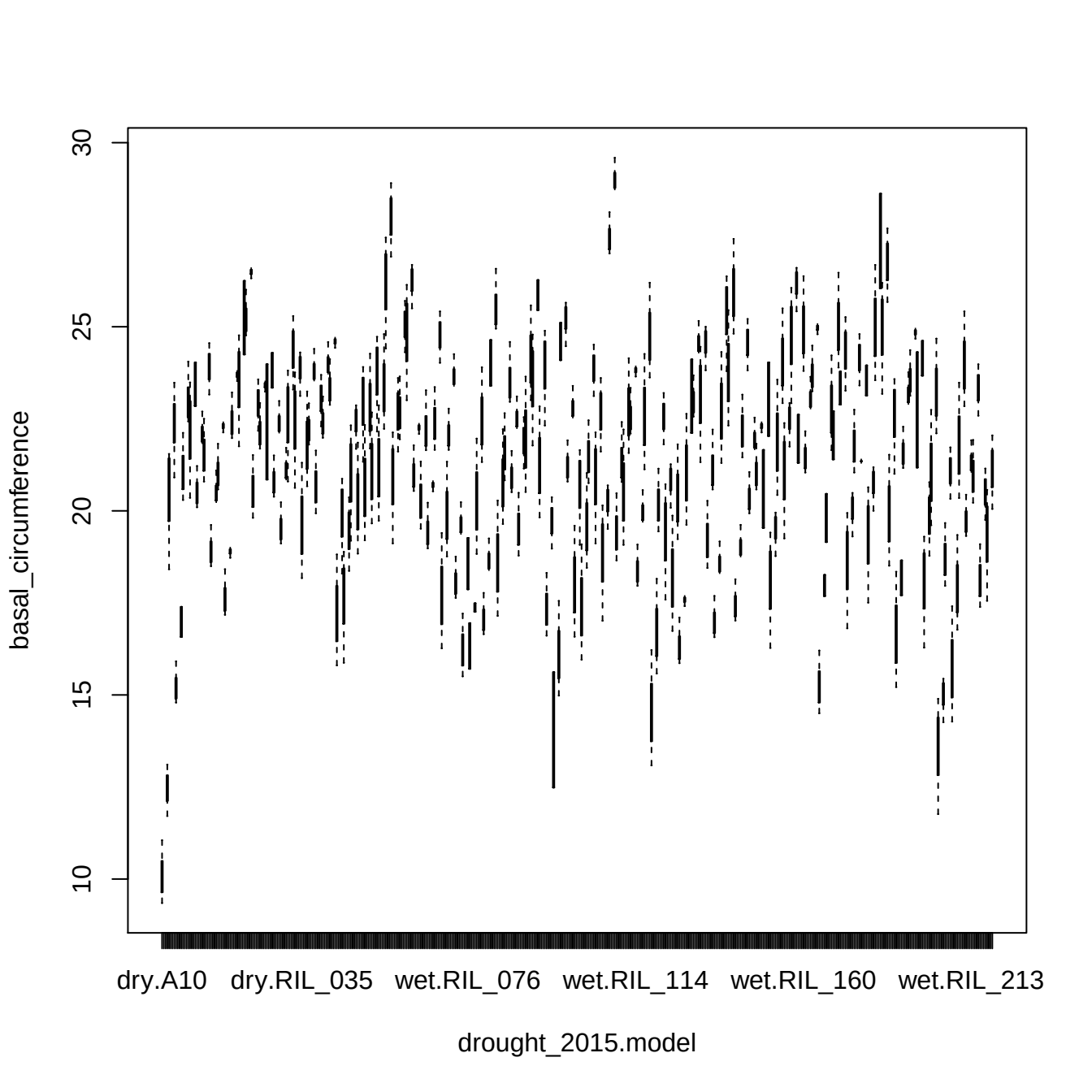

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−2
0
2
4
6
−3
−2
−1
0
1
2
3

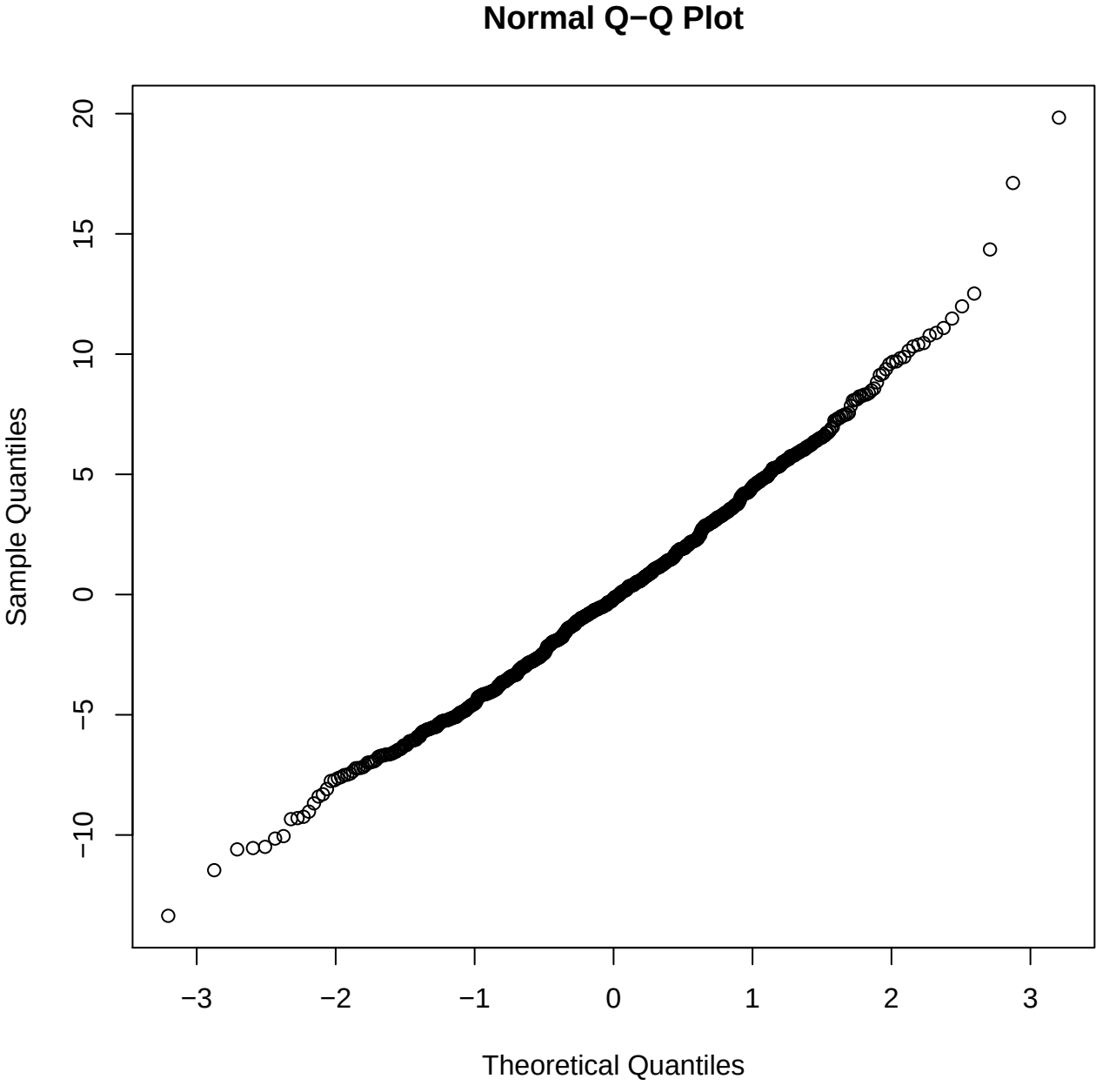

tiller_height
200
300
400
500
dry.A10
wet.RIL_033
wet.RIL_076
wet.RIL_114
wet.RIL_161
wet.RIL_214
drought_2015.model

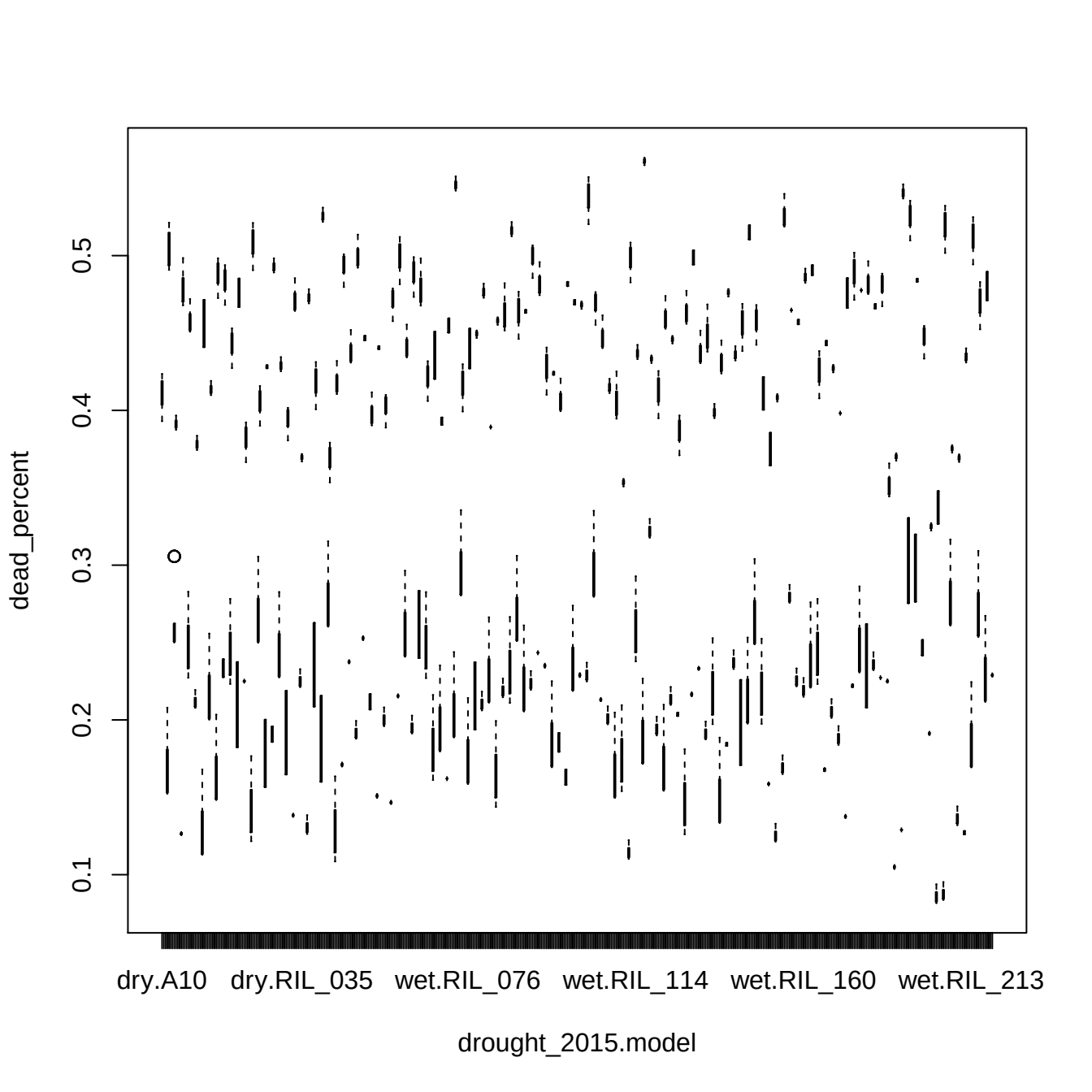

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
300
200
100
0
−100
−200
−3
−2
−1
0
1
2
3

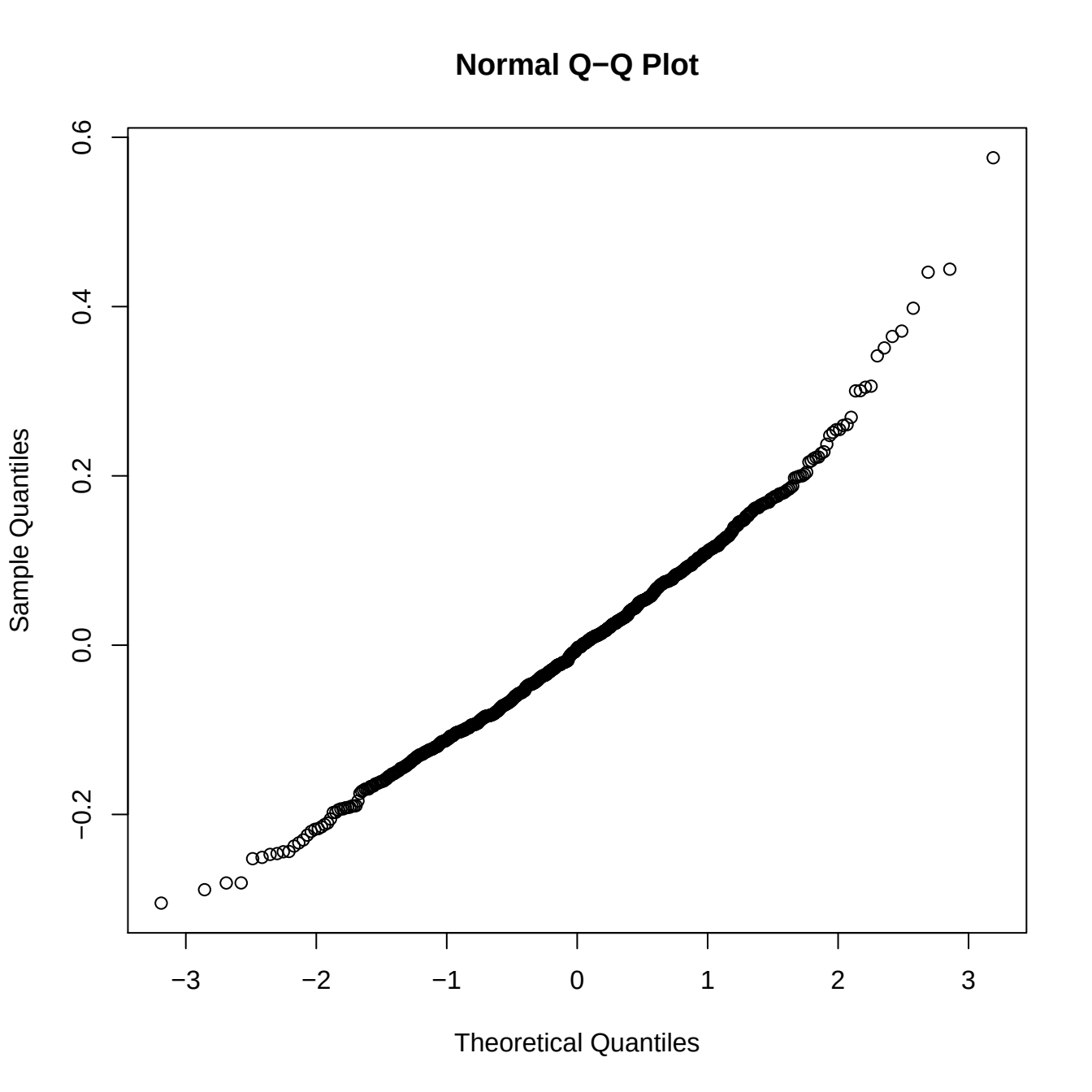

tiller_number
4.0
3.5
3.0
2.5
2.0
1.5
1.0
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

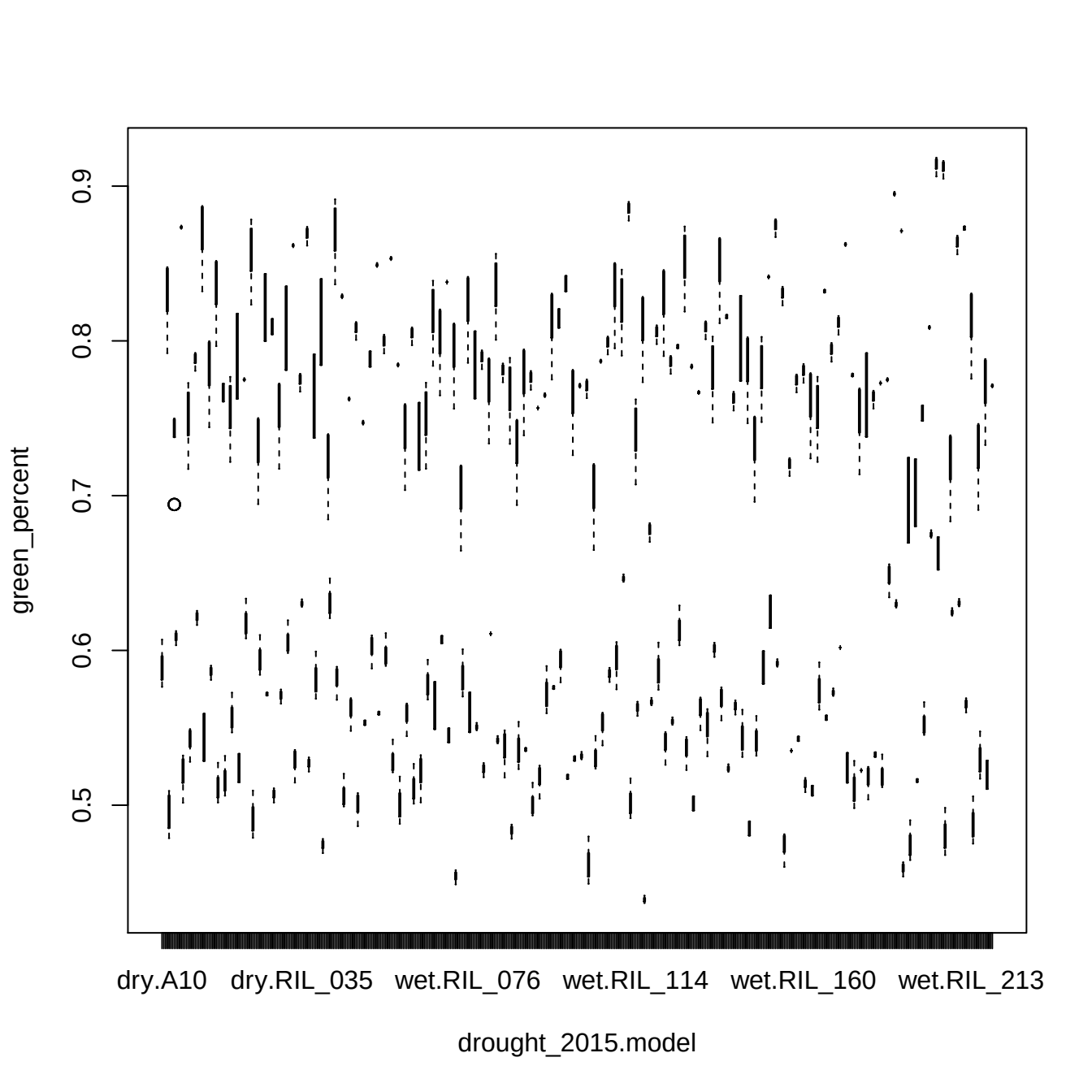

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−1.0
−0.5
0.0
0.5
1.0
1.5
−3
−2
−1
0
1
2
3

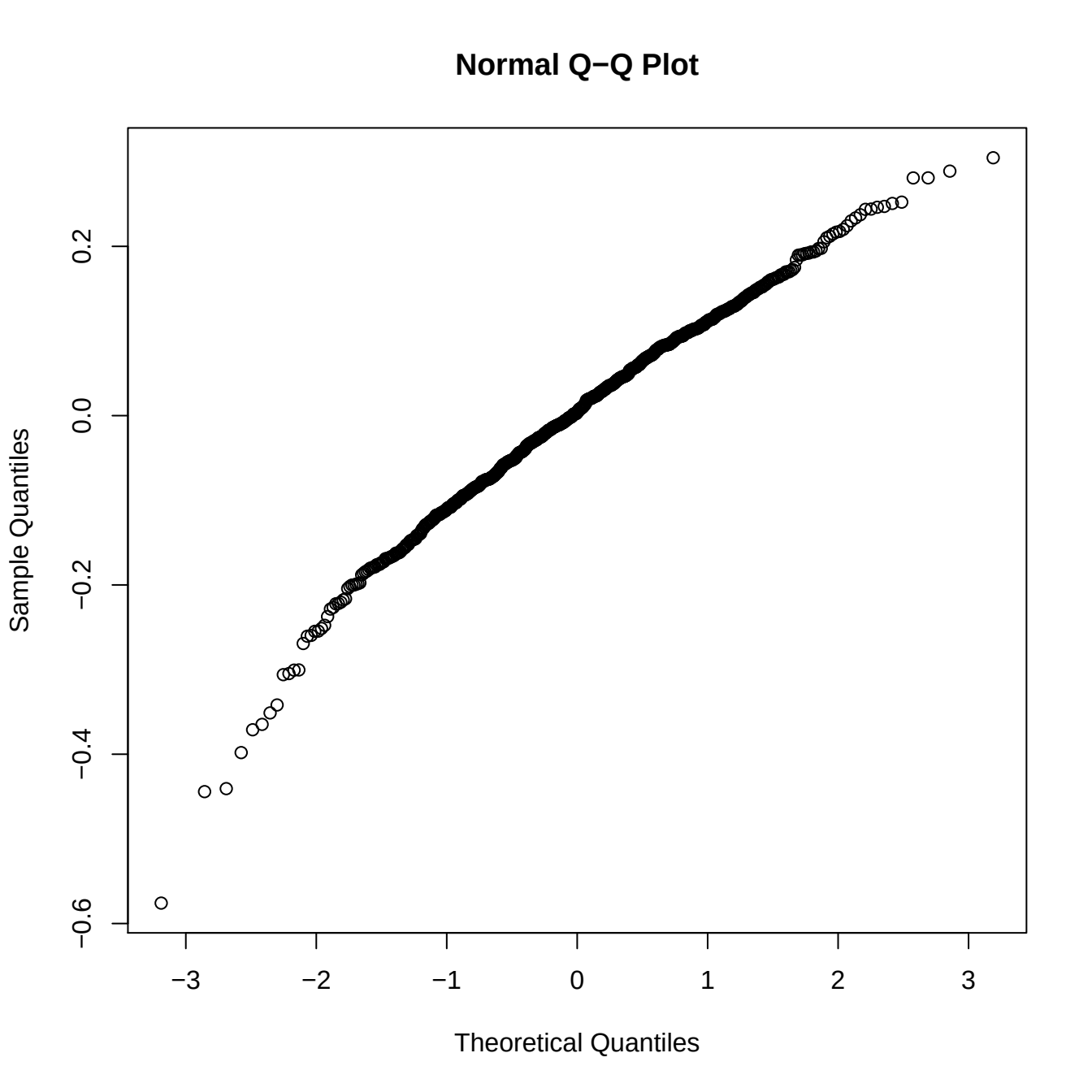

basal_circumference
10
15
20
25
30
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

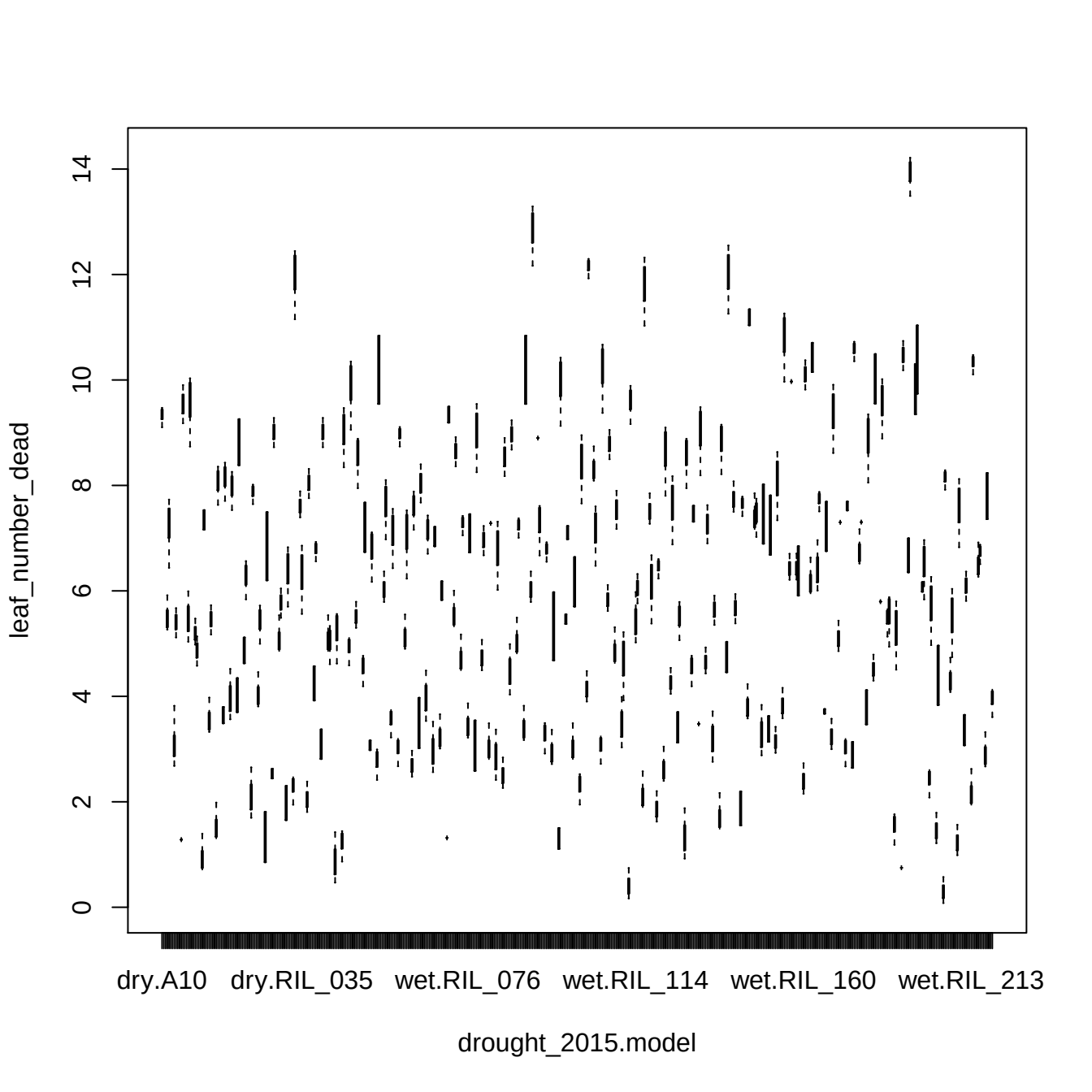

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
20
15
10
5
0
−5
−10
−3
−2
−1
0
1
2
3

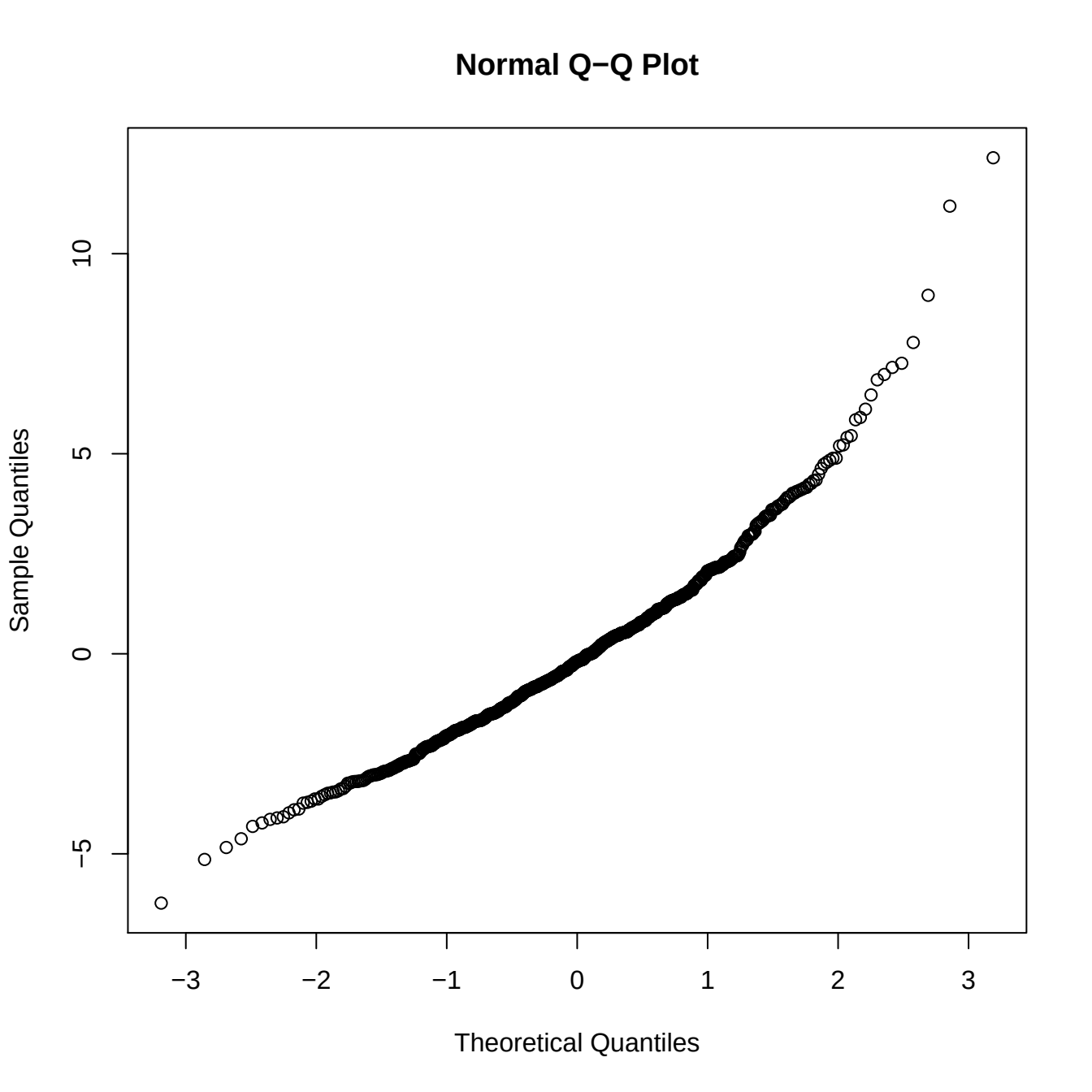

dead_percent
0.1
0.2
0.3
0.4
0.5
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model

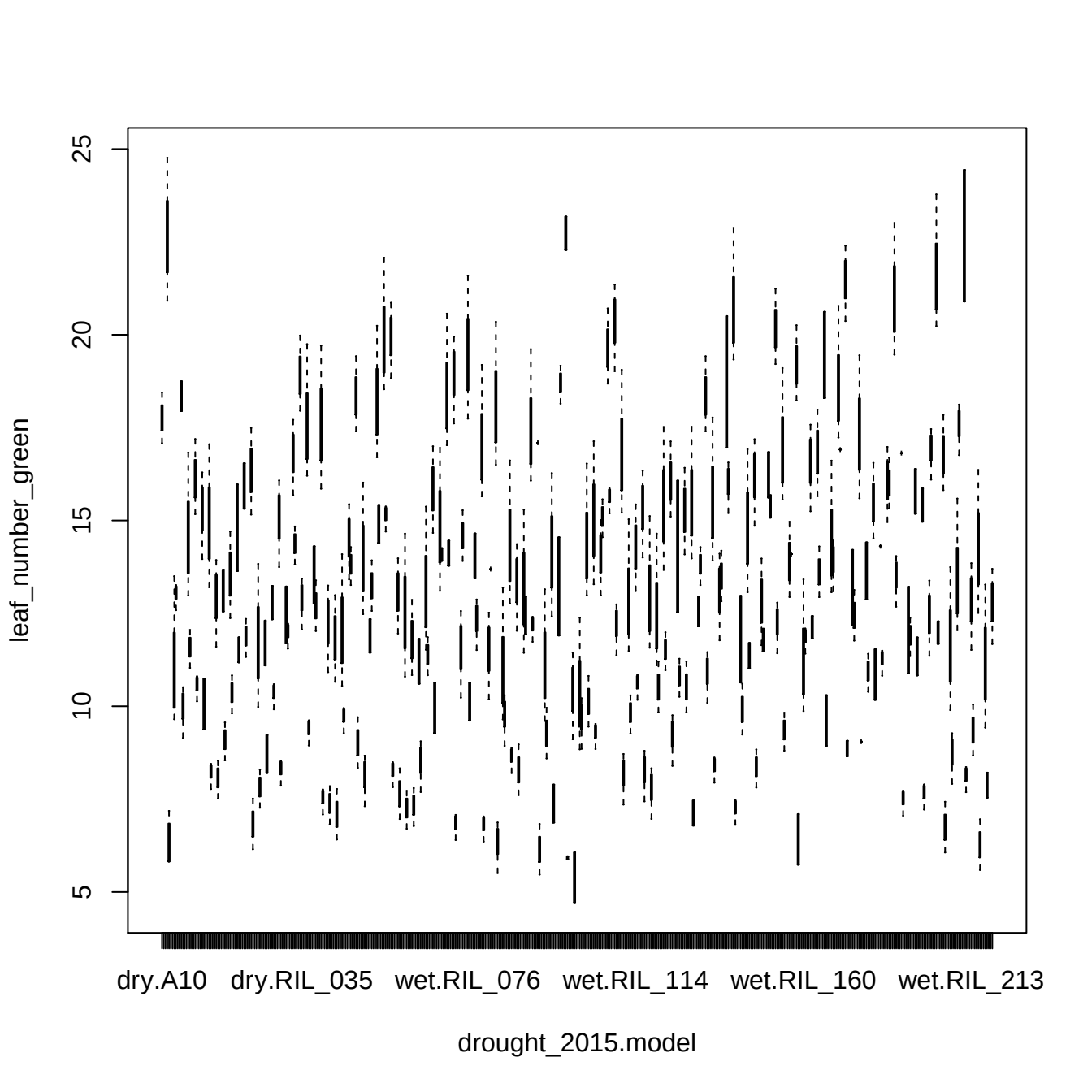

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.6
0.4
0.2
0.0
−0.2
−3
−2
−1
0
1
2
3

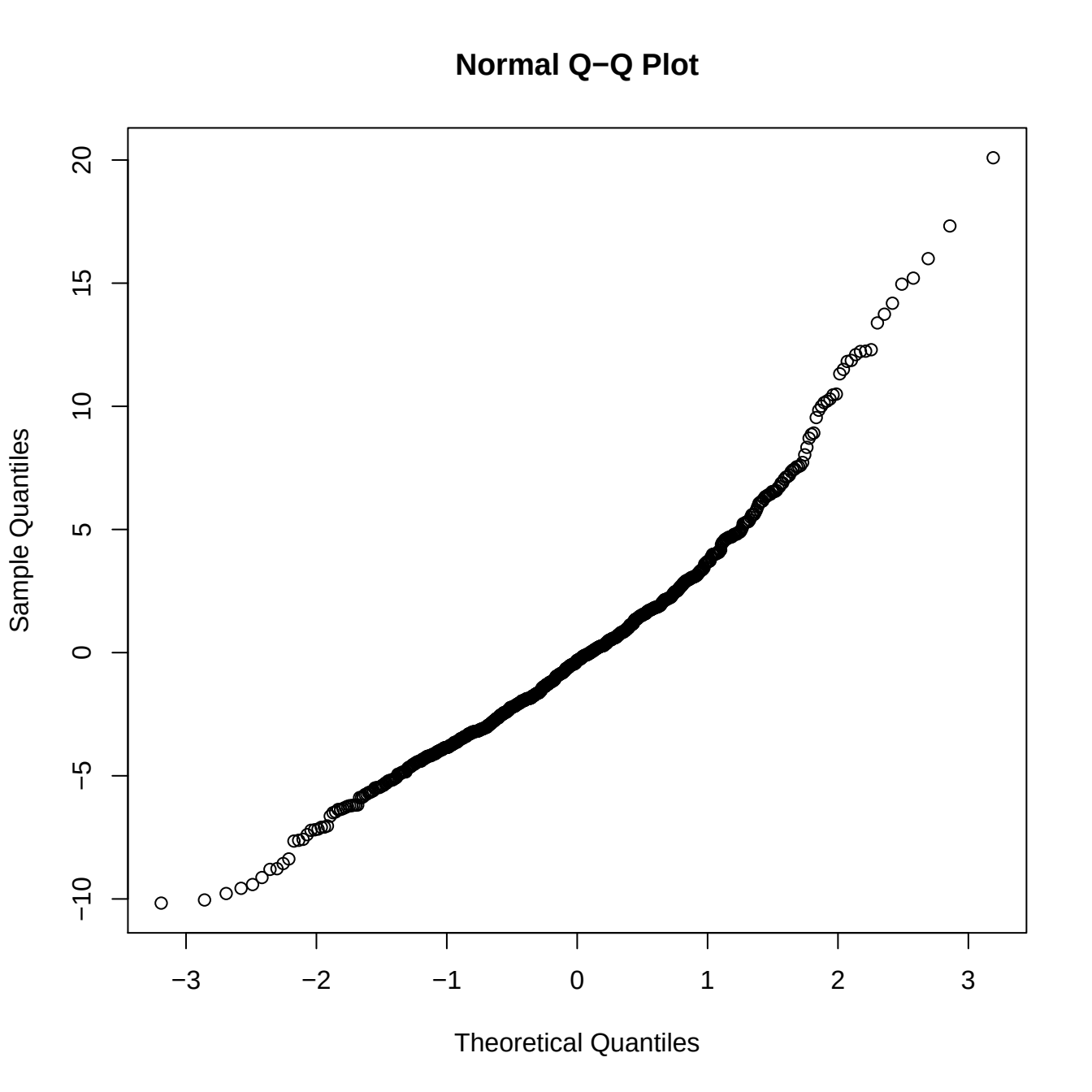

green_percent
0.5
0.6
0.7
0.8
0.9
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model


Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.2
0.0
−0.2
−0.4
−0.6
−3
−2
−1
0
1
2
3


leaf_number_dead
0
2
4
6
8
10
12
14
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model


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


leaf_number_green
5
10
15
20
25
dry.A10
dry.RIL_035
wet.RIL_076
wet.RIL_114
wet.RIL_160
wet.RIL_213
drought_2015.model


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