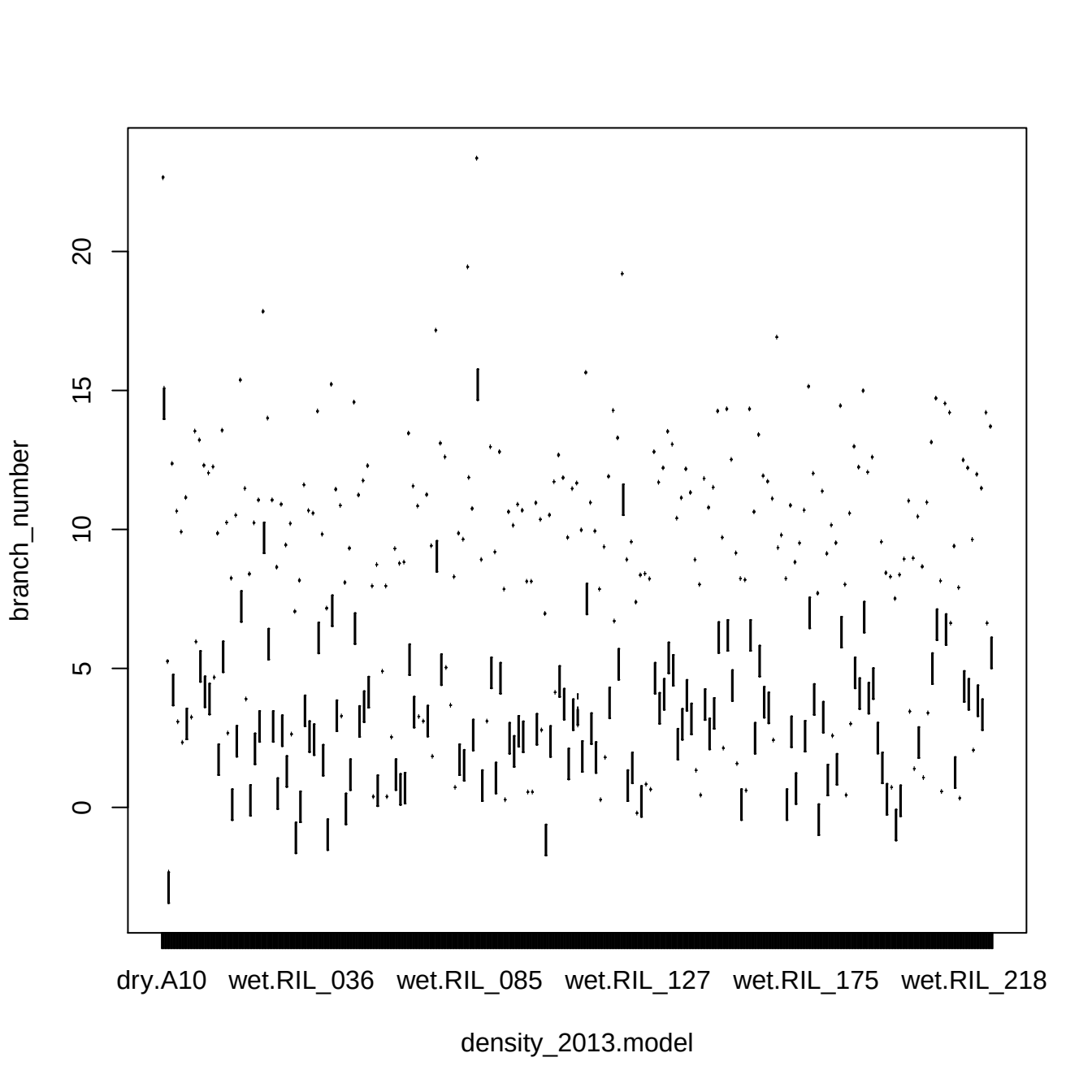
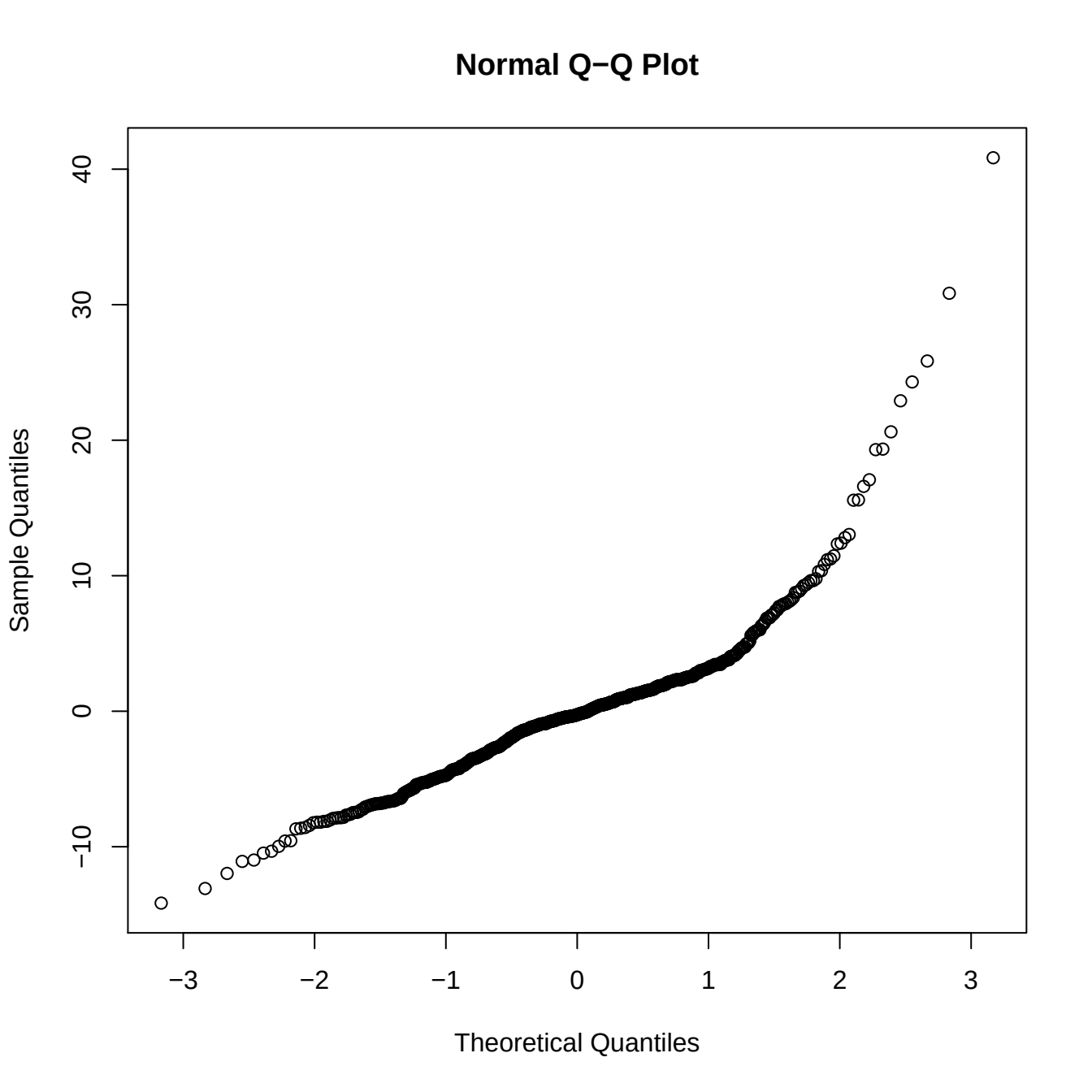
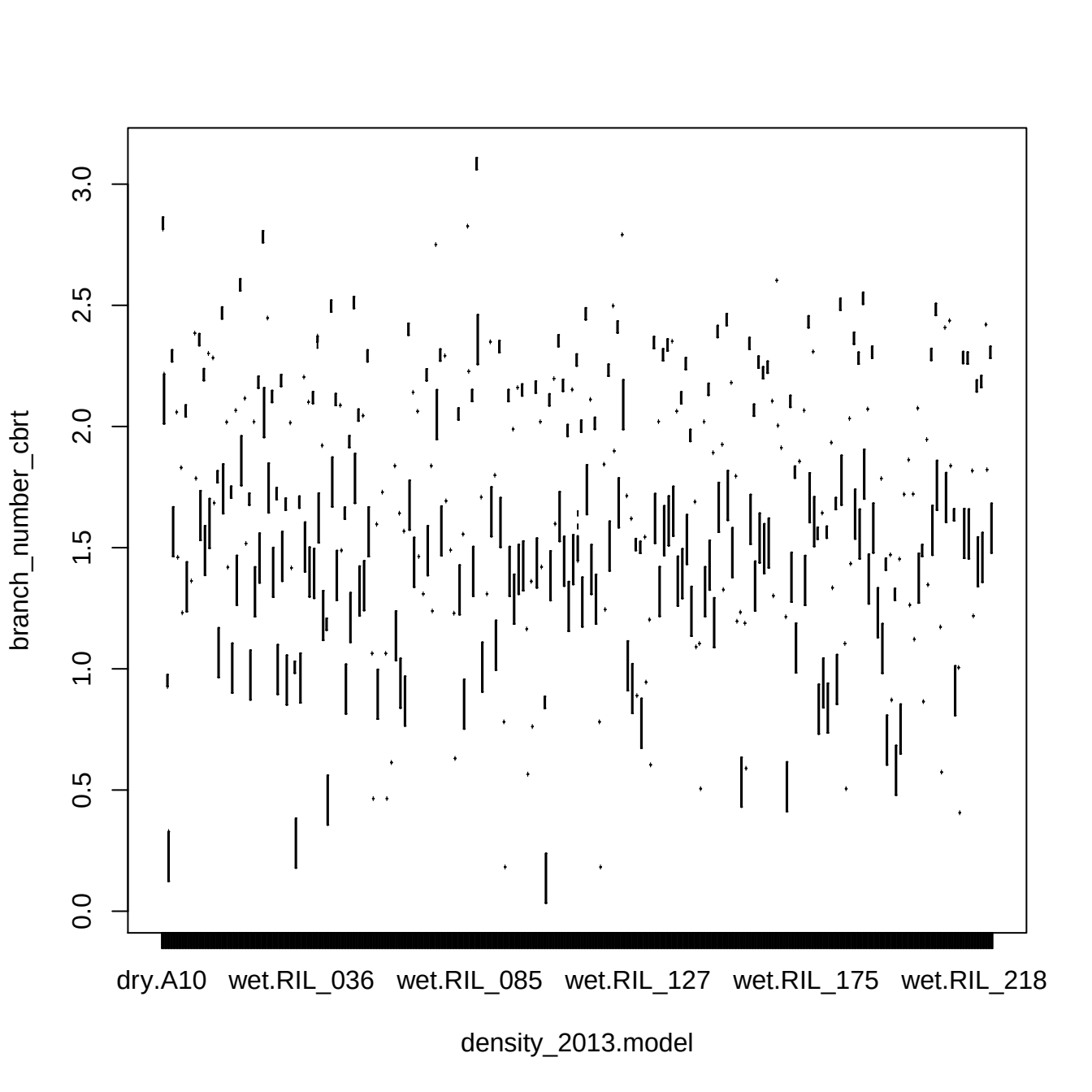
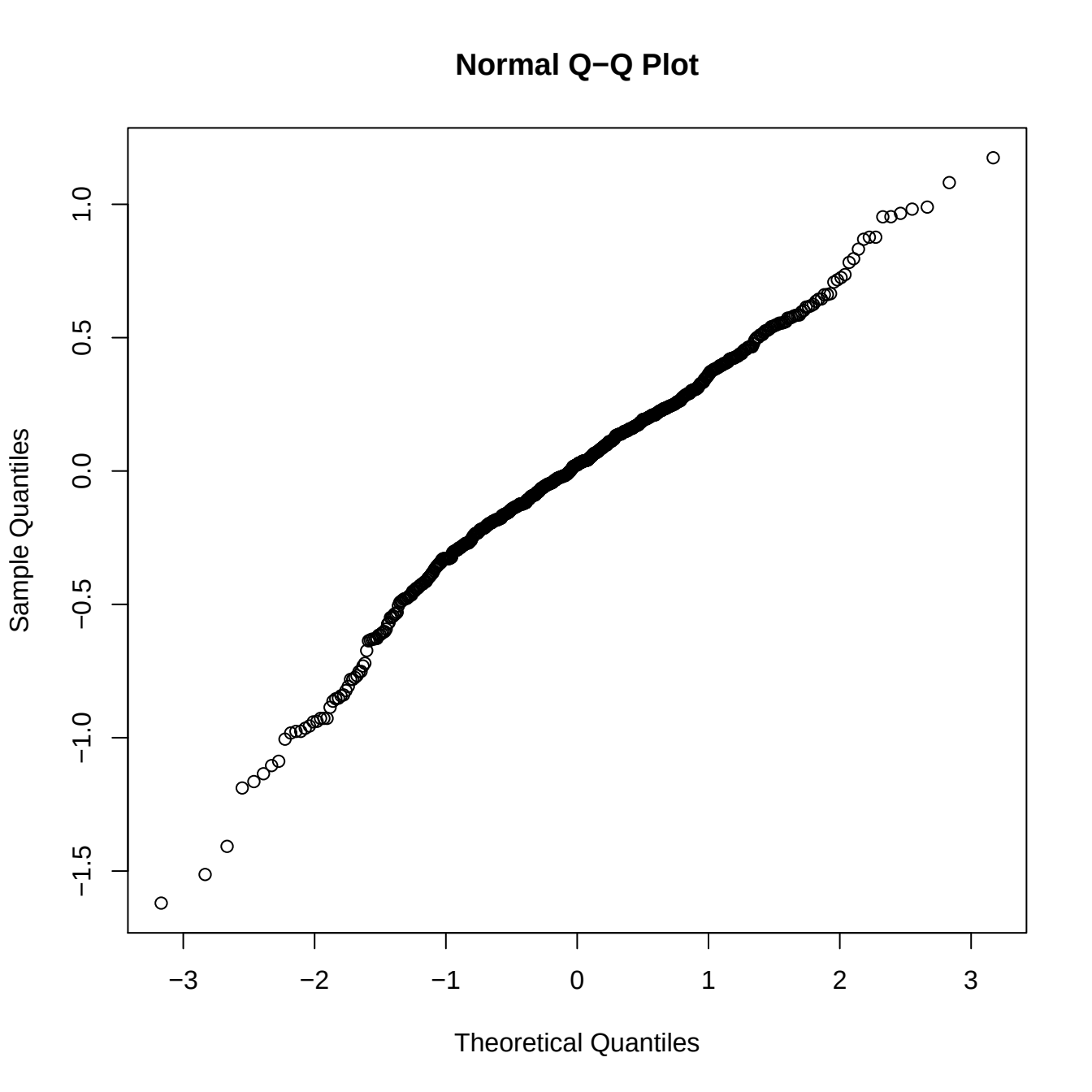
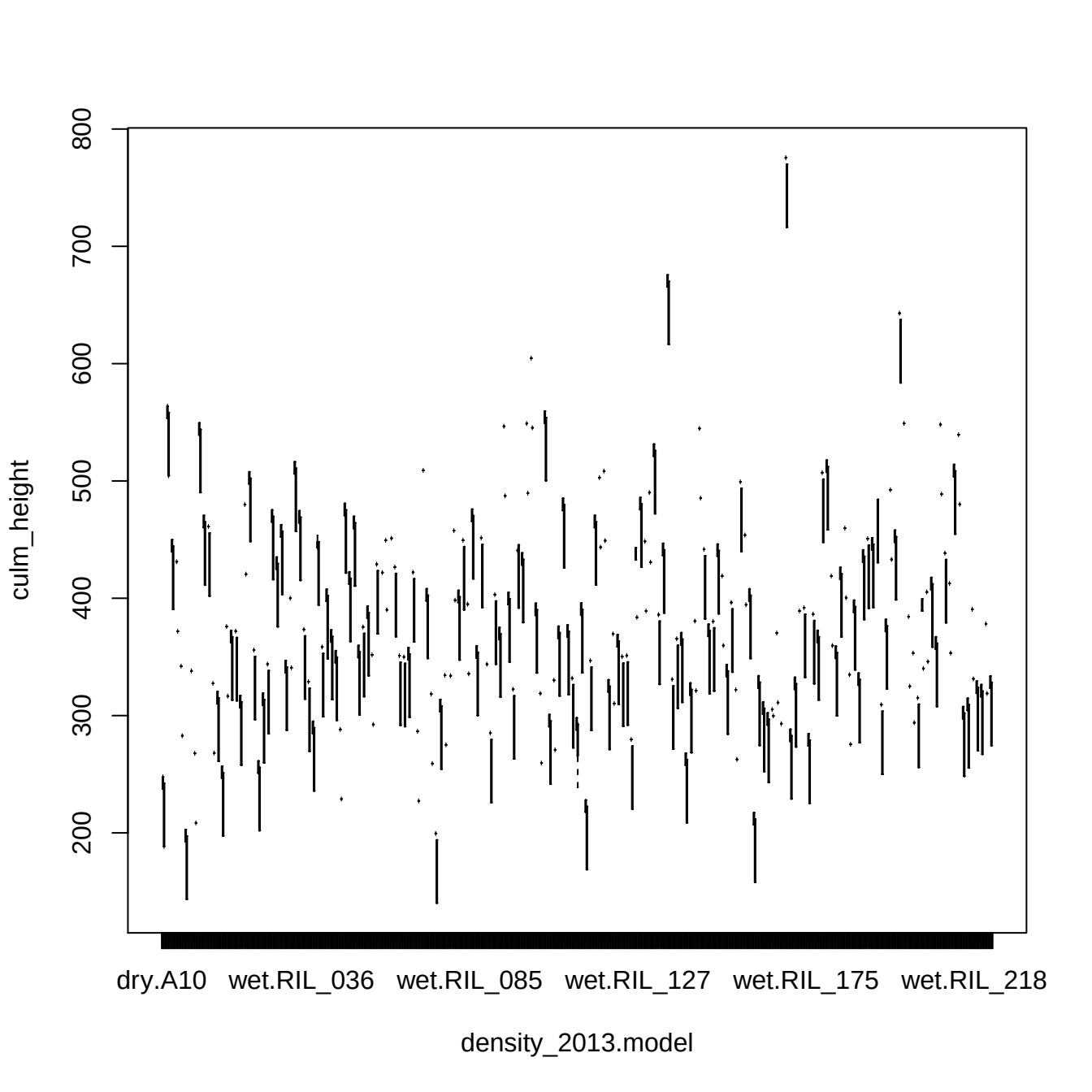
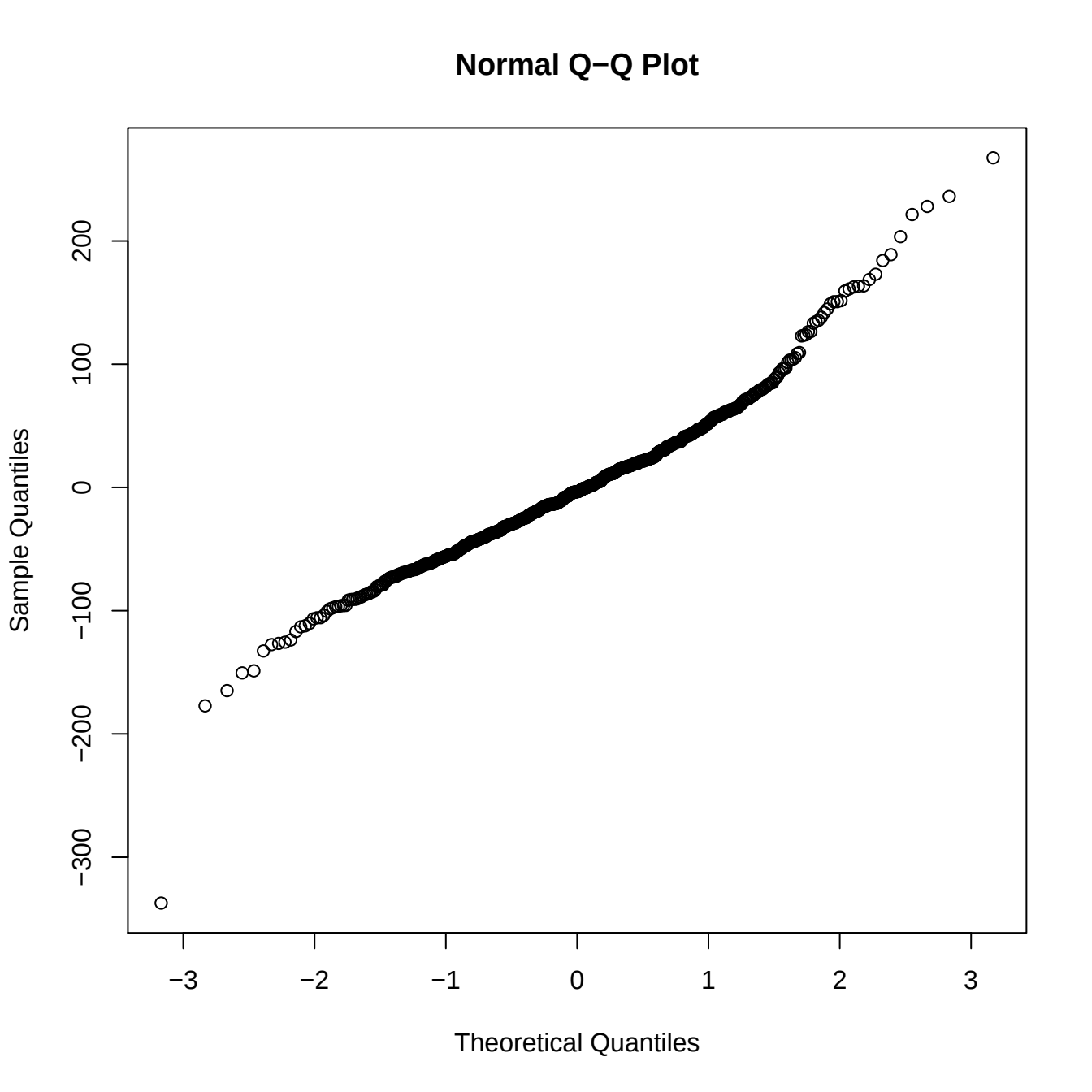

branch_number
0
5
10
15
20
dry.A10
wet.RIL_036
wet.RIL_085
wet.RIL_127
wet.RIL_175
wet.RIL_218
density_2013.model

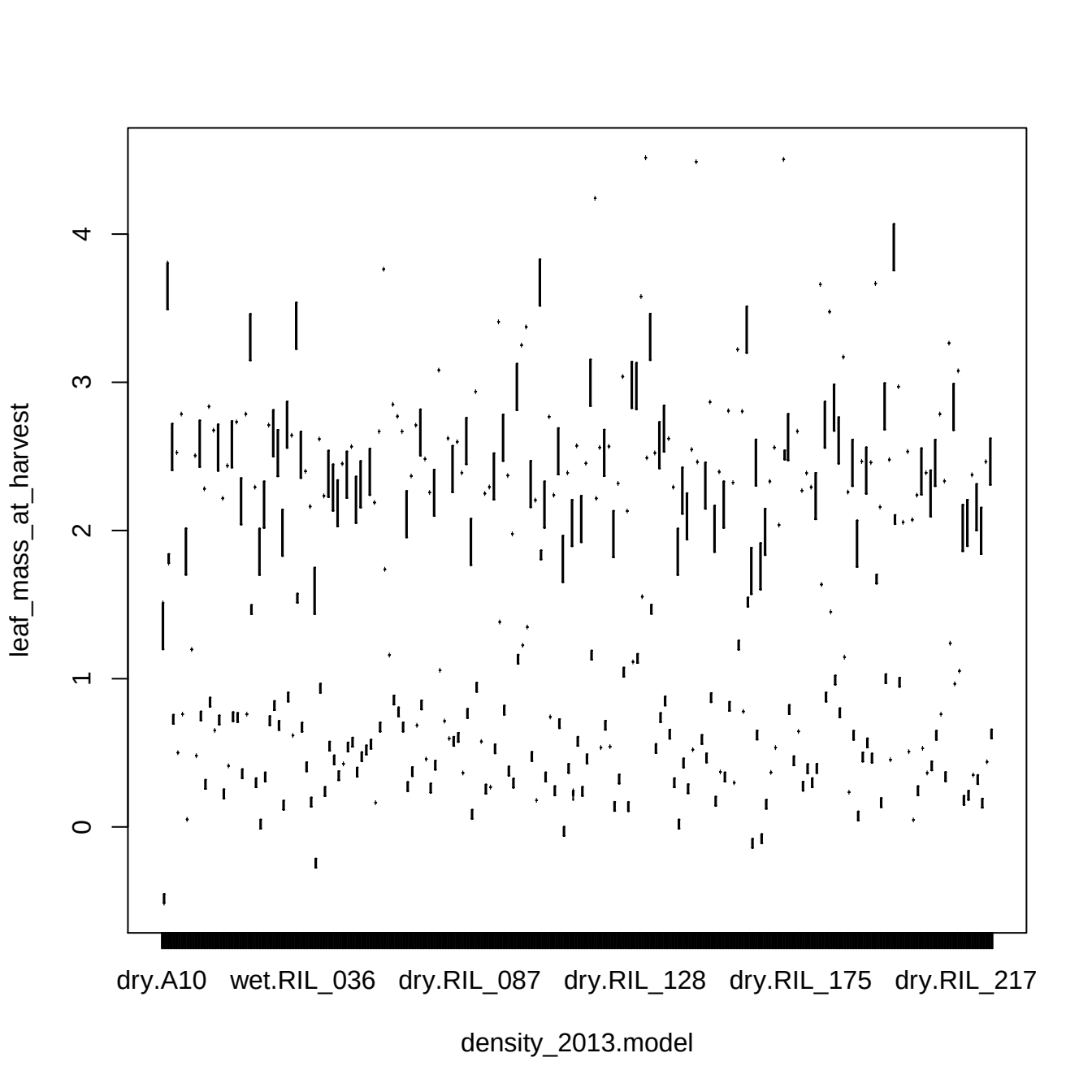

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
40
30
20
10
0
−10
−3
−2
−1
0
1
2
3

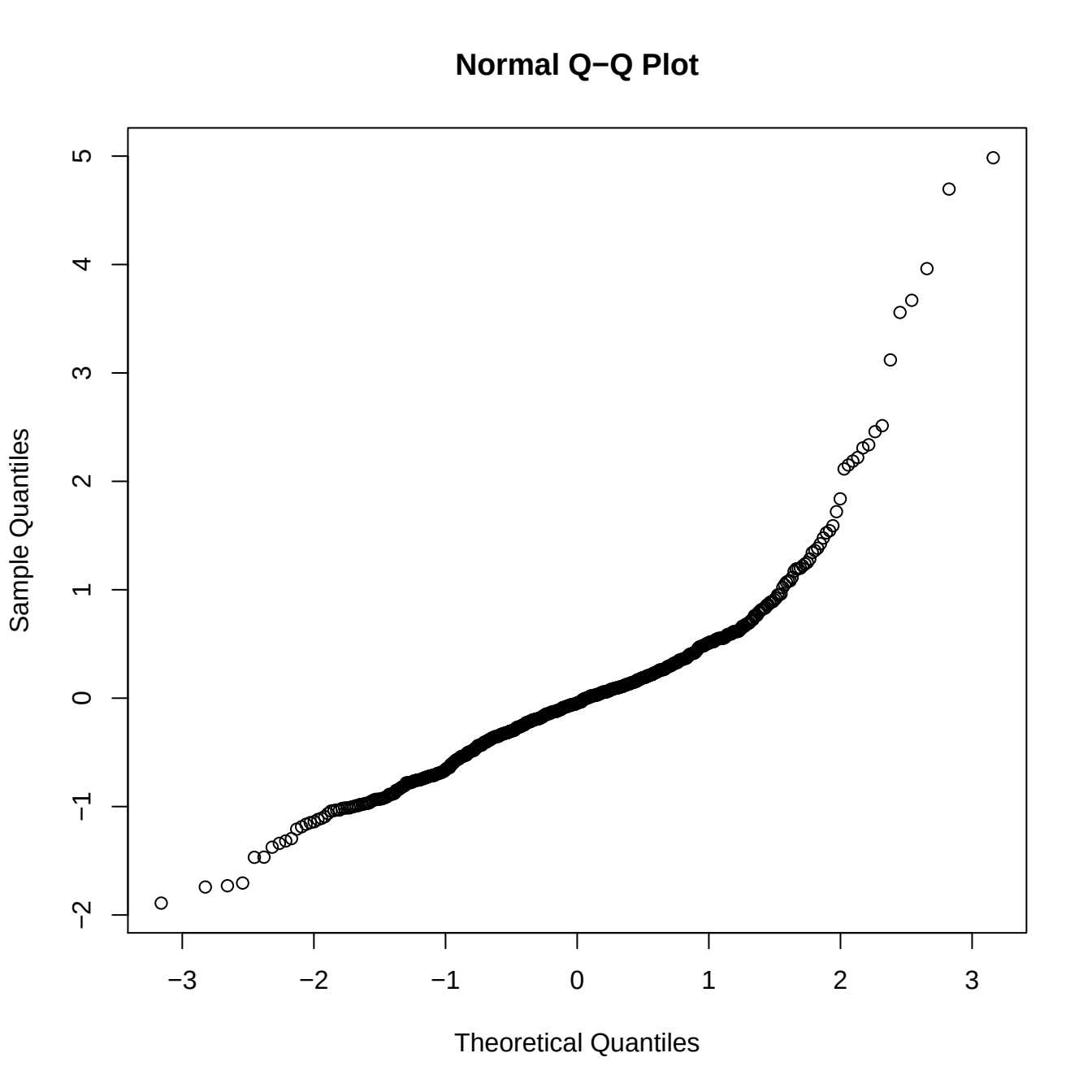

branch_number_cbrt
0.0
0.5
1.0
1.5
2.0
2.5
3.0
dry.A10
wet.RIL_036
wet.RIL_085
wet.RIL_127
wet.RIL_175
wet.RIL_218
density_2013.model

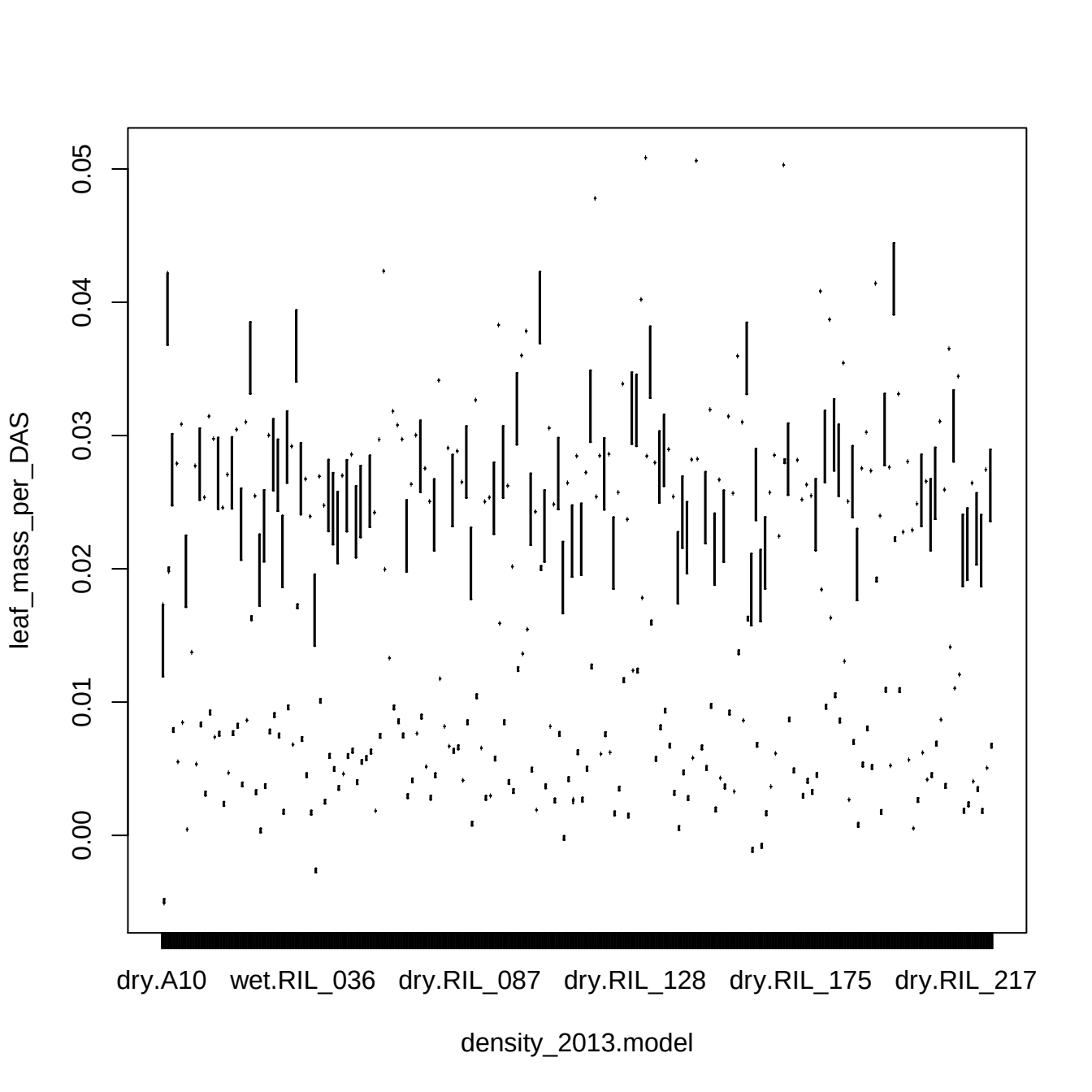

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−1.5
−1.0
−0.5
0.0
0.5
1.0
−3
−2
−1
0
1
2
3

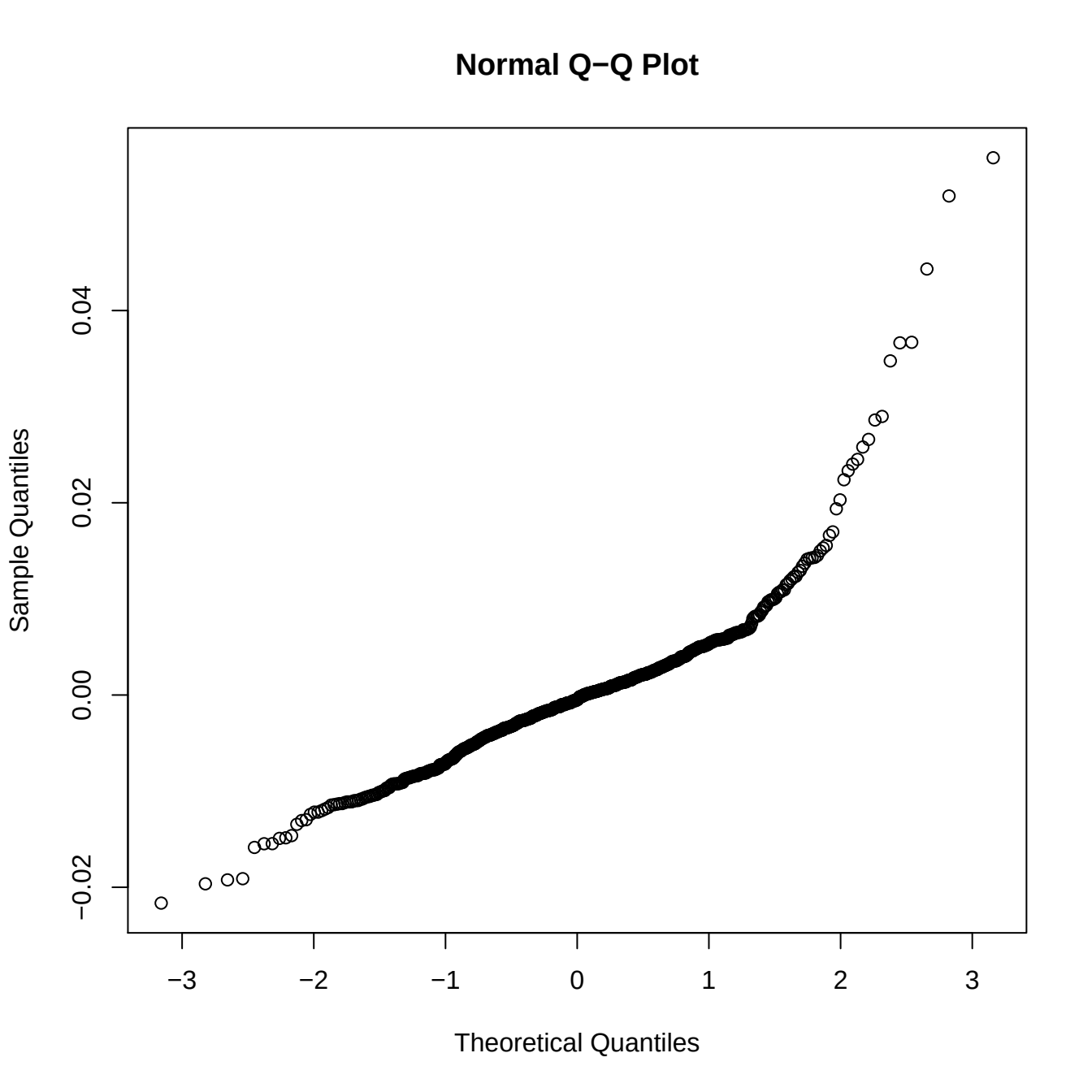

culm_height
800
700
600
500
400
300
200
dry.A10
wet.RIL_036
wet.RIL_085
wet.RIL_127
wet.RIL_175
wet.RIL_218
density_2013.model

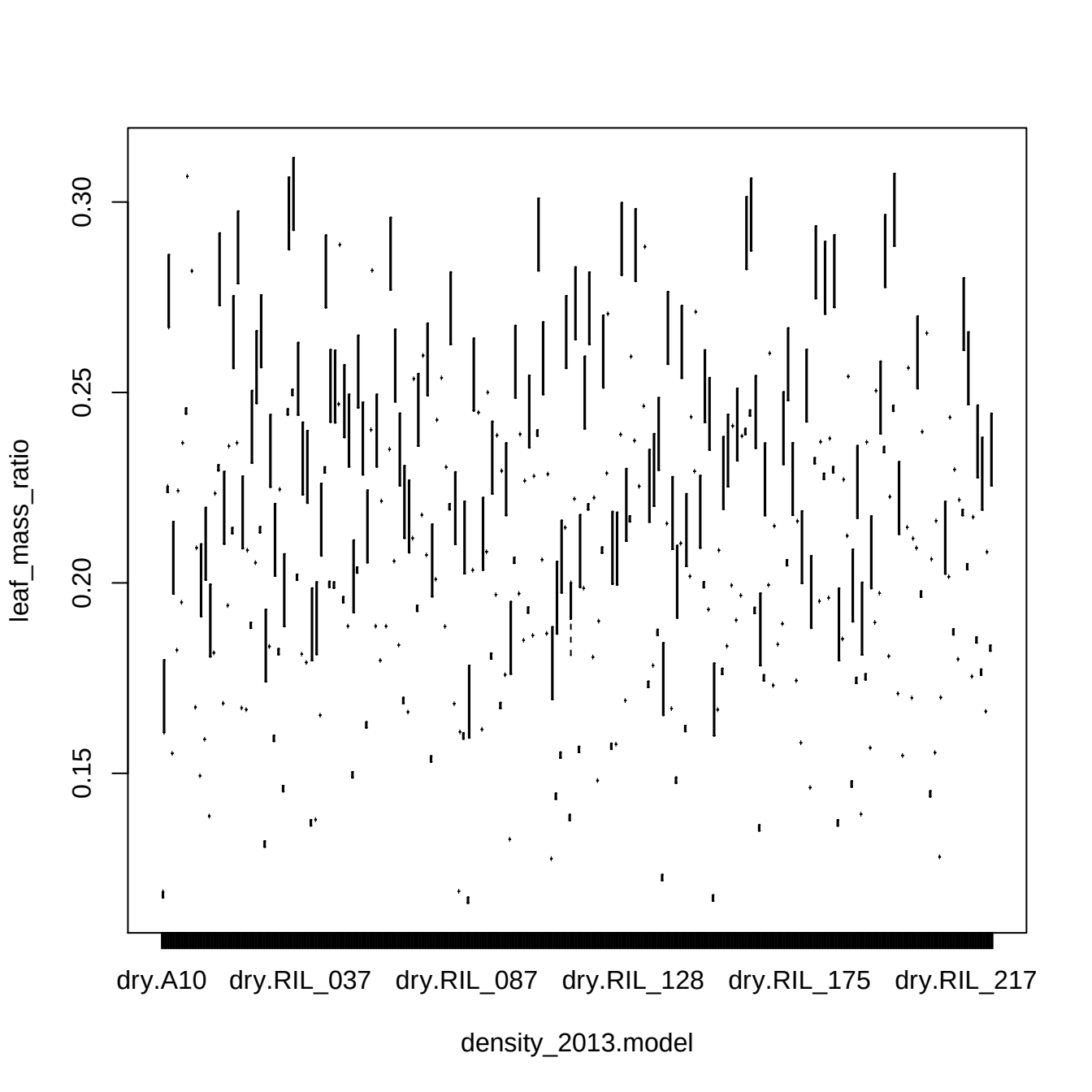

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
200
100
0
−100
−200
−300
−3
−2
−1
0
1
2
3

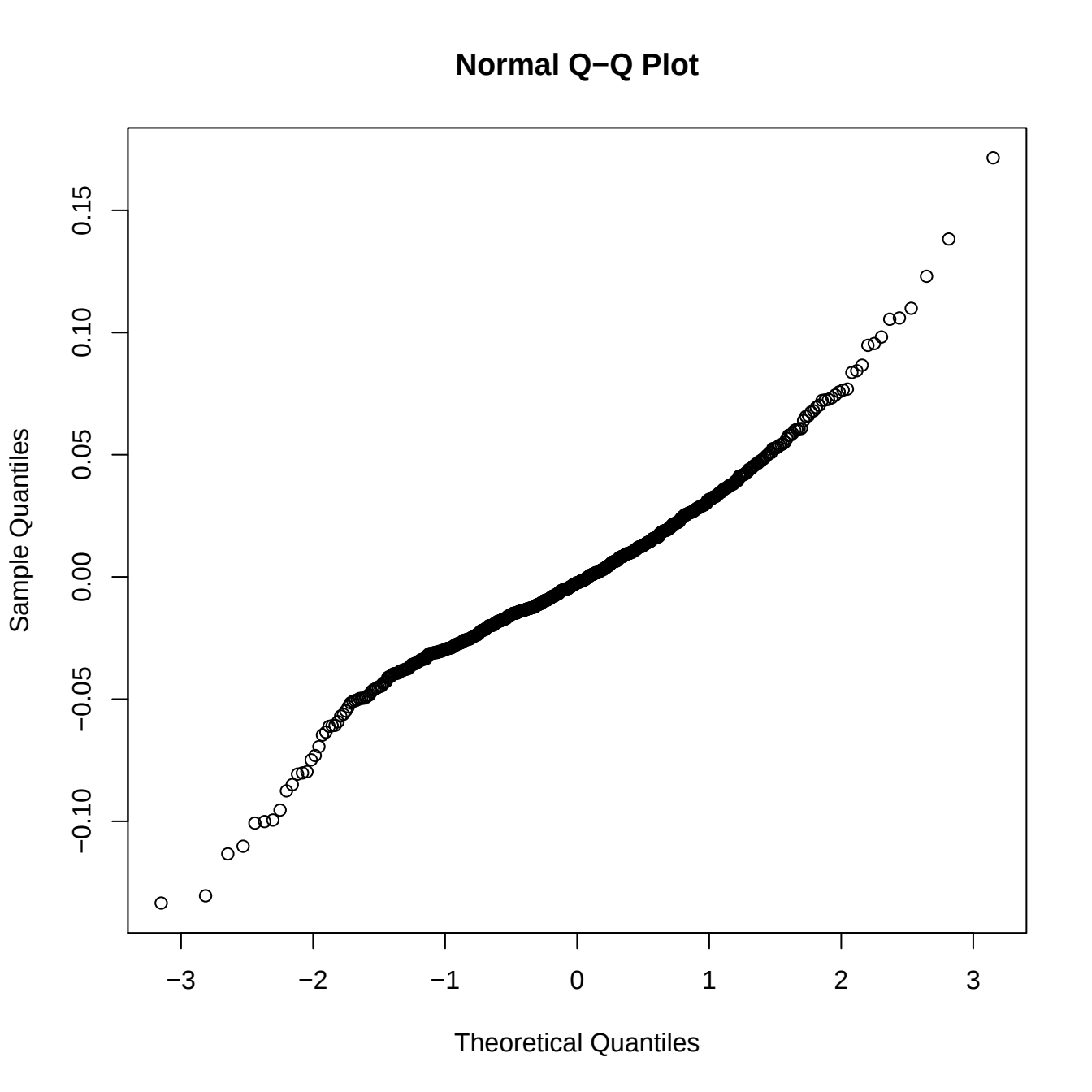

leaf_mass_at_harvest
0
1
2
3
4
dry.A10
wet.RIL_036
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.model

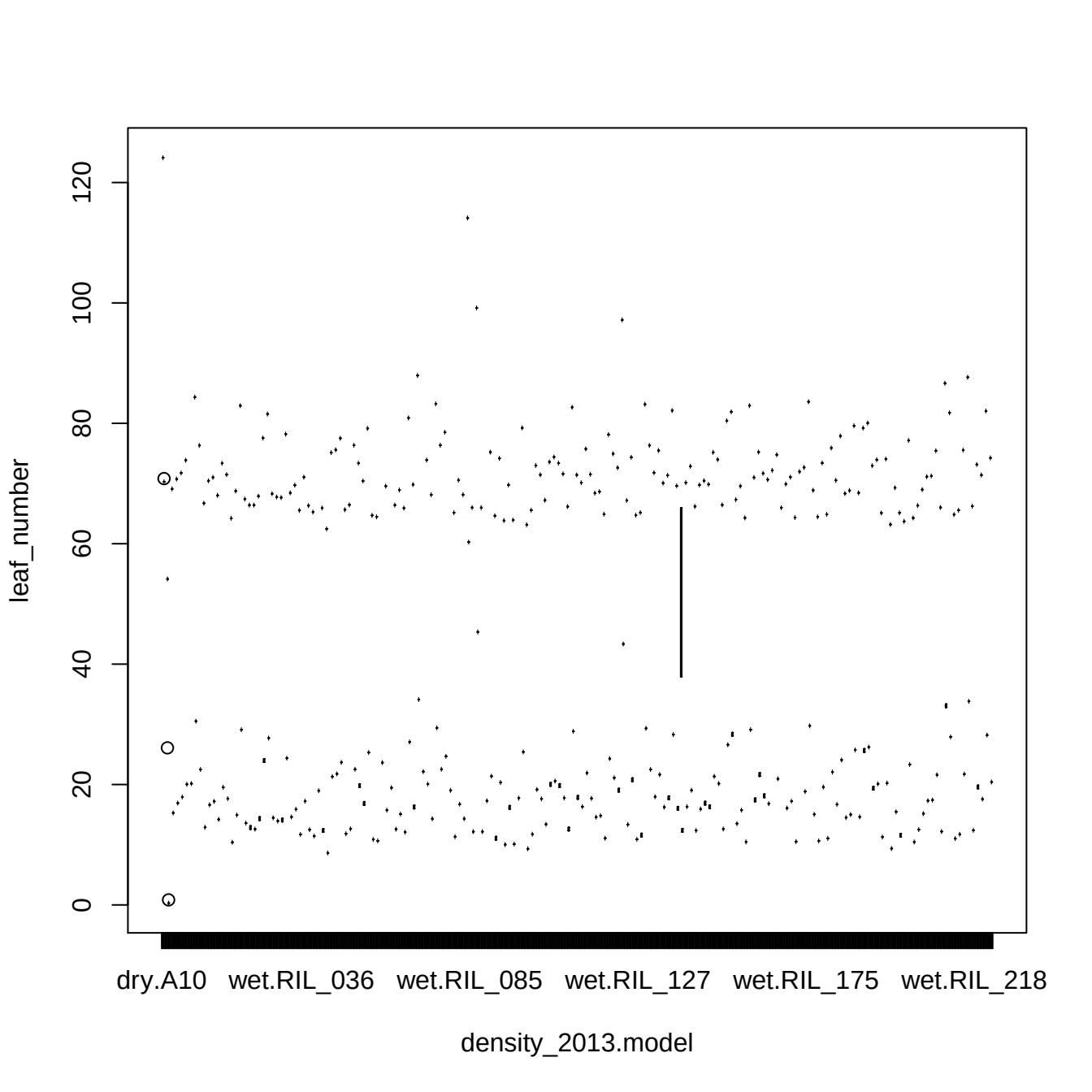

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−2
−1
0
1
2
3
4
5
−3
−2
−1
0
1
2
3

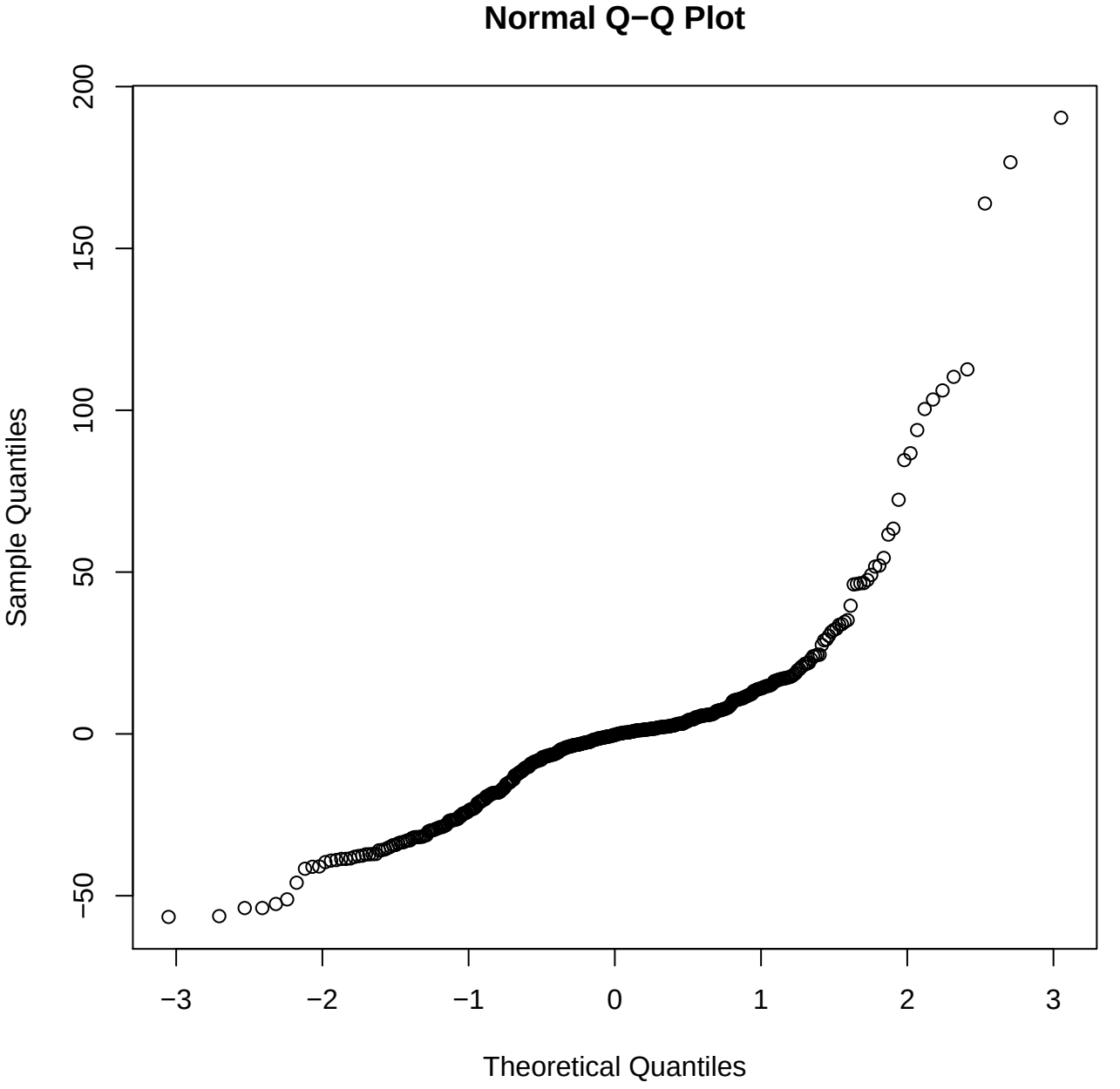

leaf_mass_per_DAS
0.00
0.01
0.02
0.03
0.04
0.05
dry.A10
wet.RIL_036
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.model

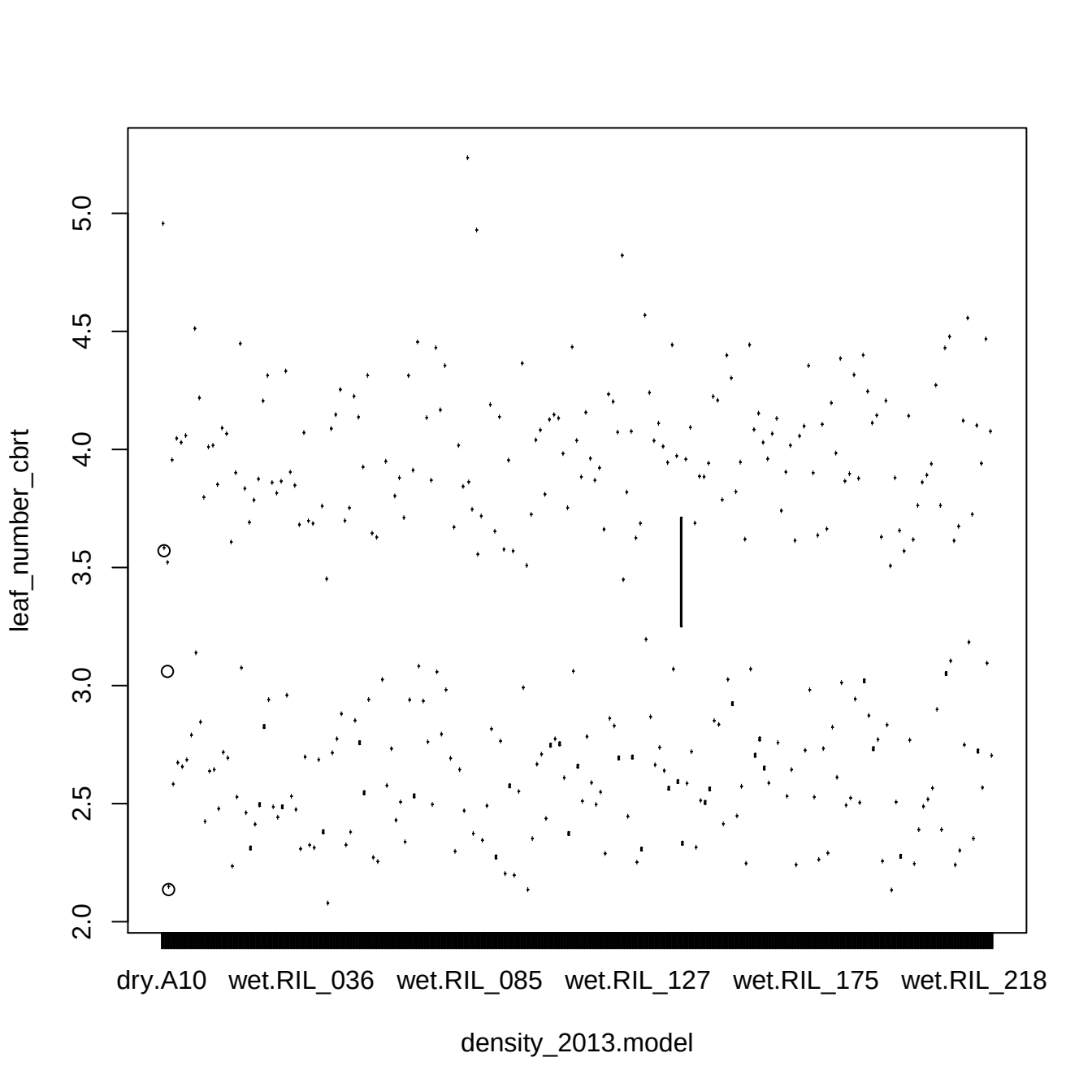

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.04
0.02
0.00
−0.02
−3
−2
−1
0
1
2
3

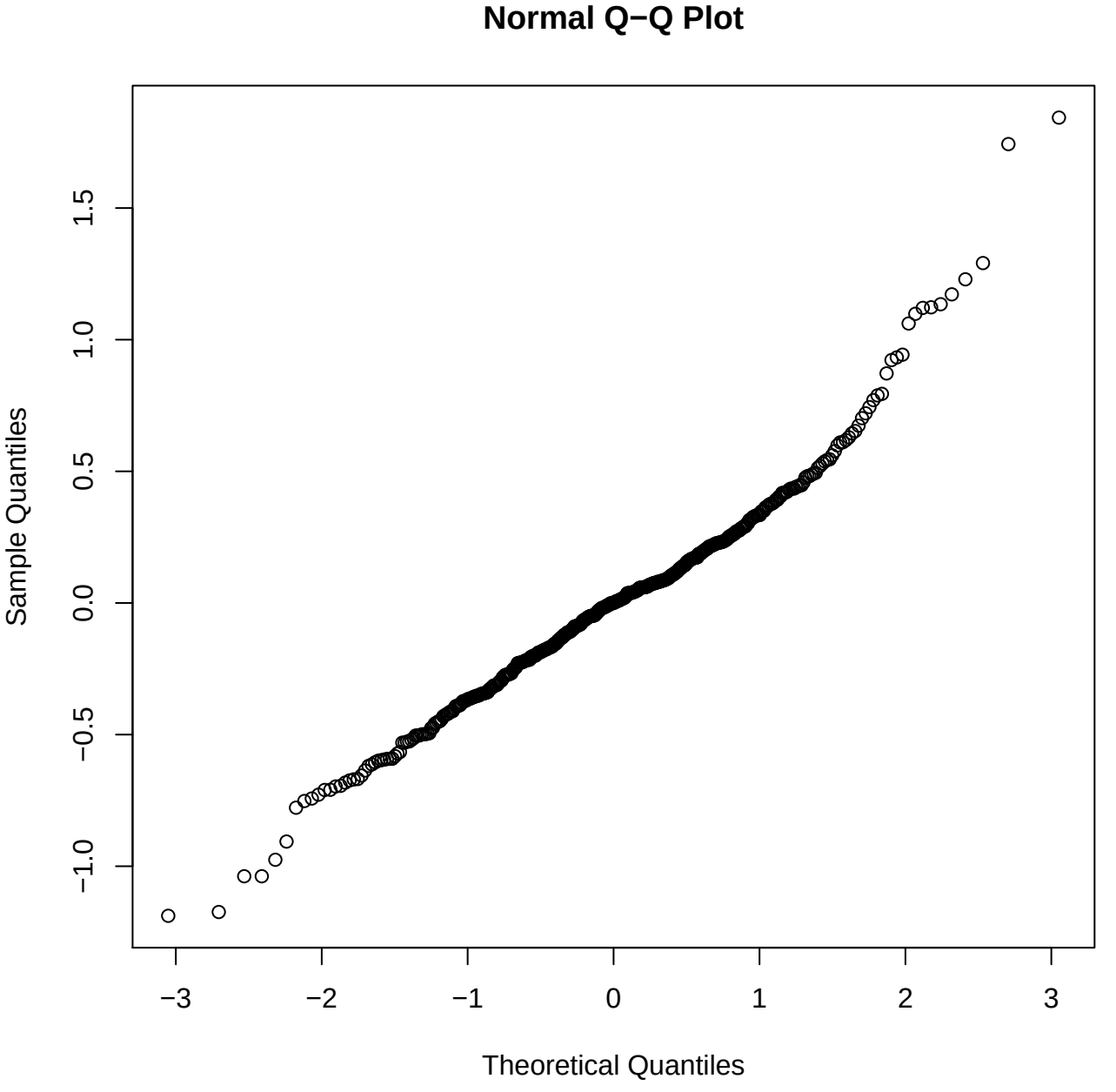

leaf_mass_ratio
0.15
0.20
0.25
0.30
dry.A10
dry.RIL_037
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.model

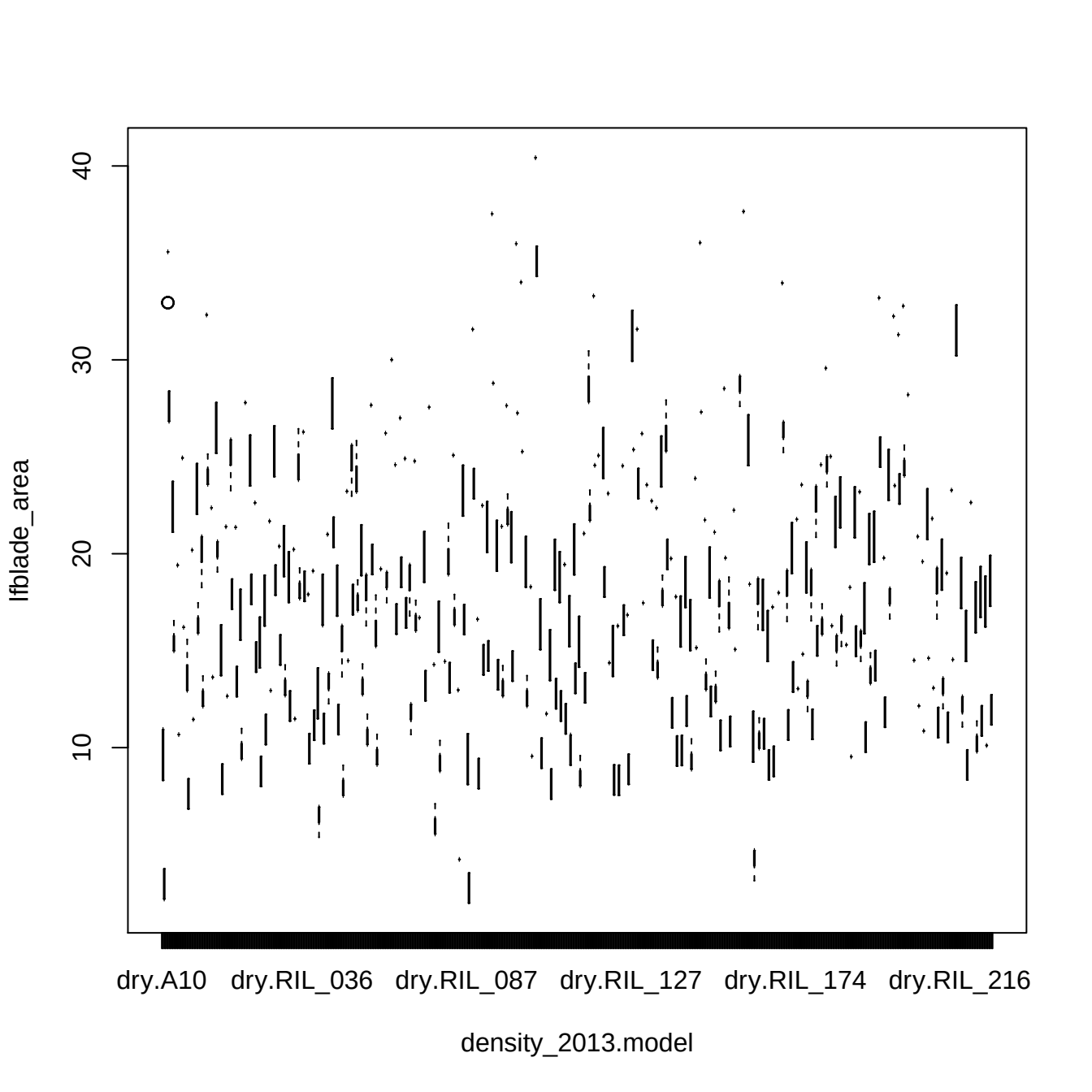

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.15
0.10
0.05
0.00
−0.05
−0.10
−3
−2
−1
0
1
2
3

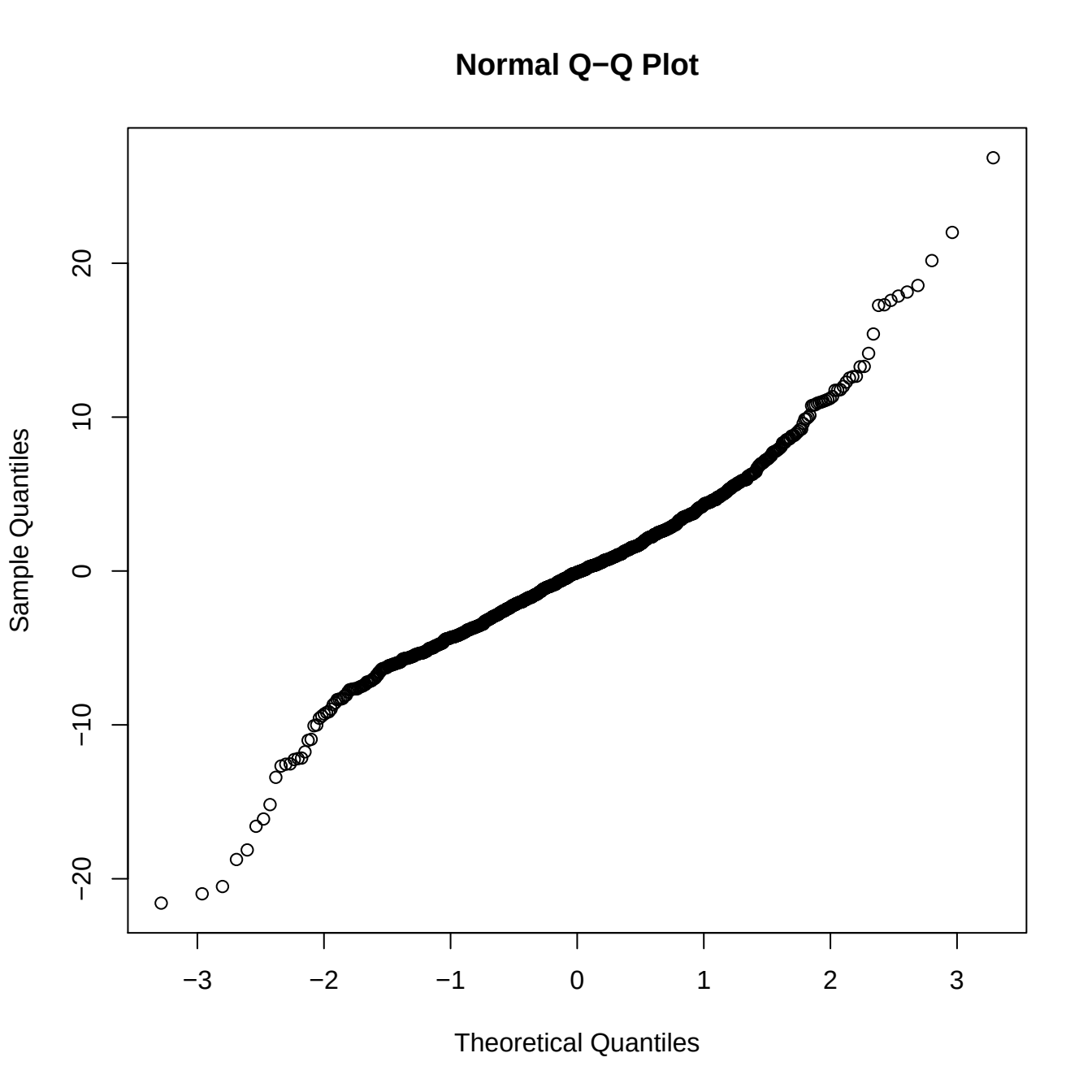

leaf_number
0
20
40
60
80
100
120
dry.A10
wet.RIL_036
wet.RIL_085
wet.RIL_127
wet.RIL_175
wet.RIL_218
density_2013.model

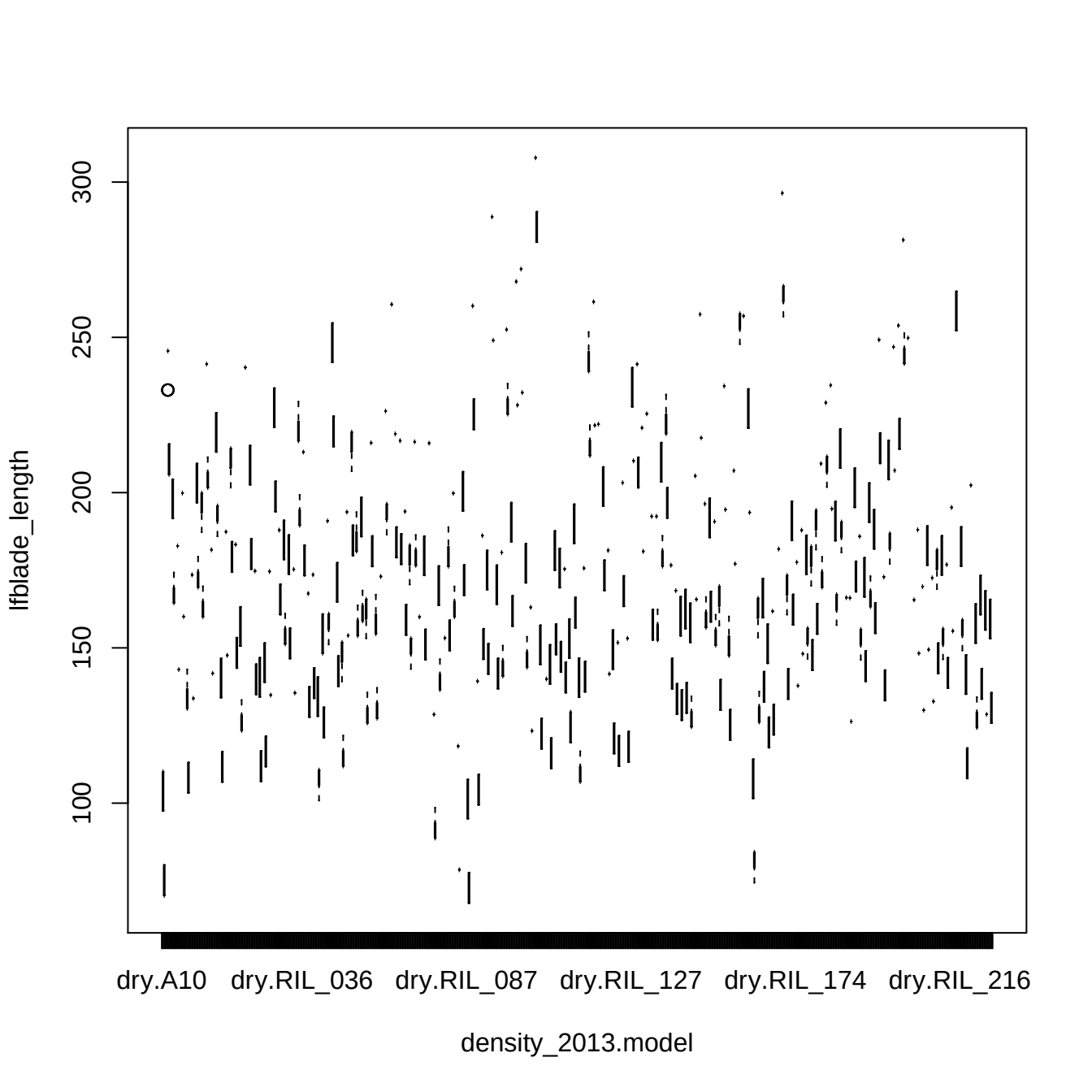

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
200
150
100
50
0
−50
−3
−2
−1
0
1
2
3

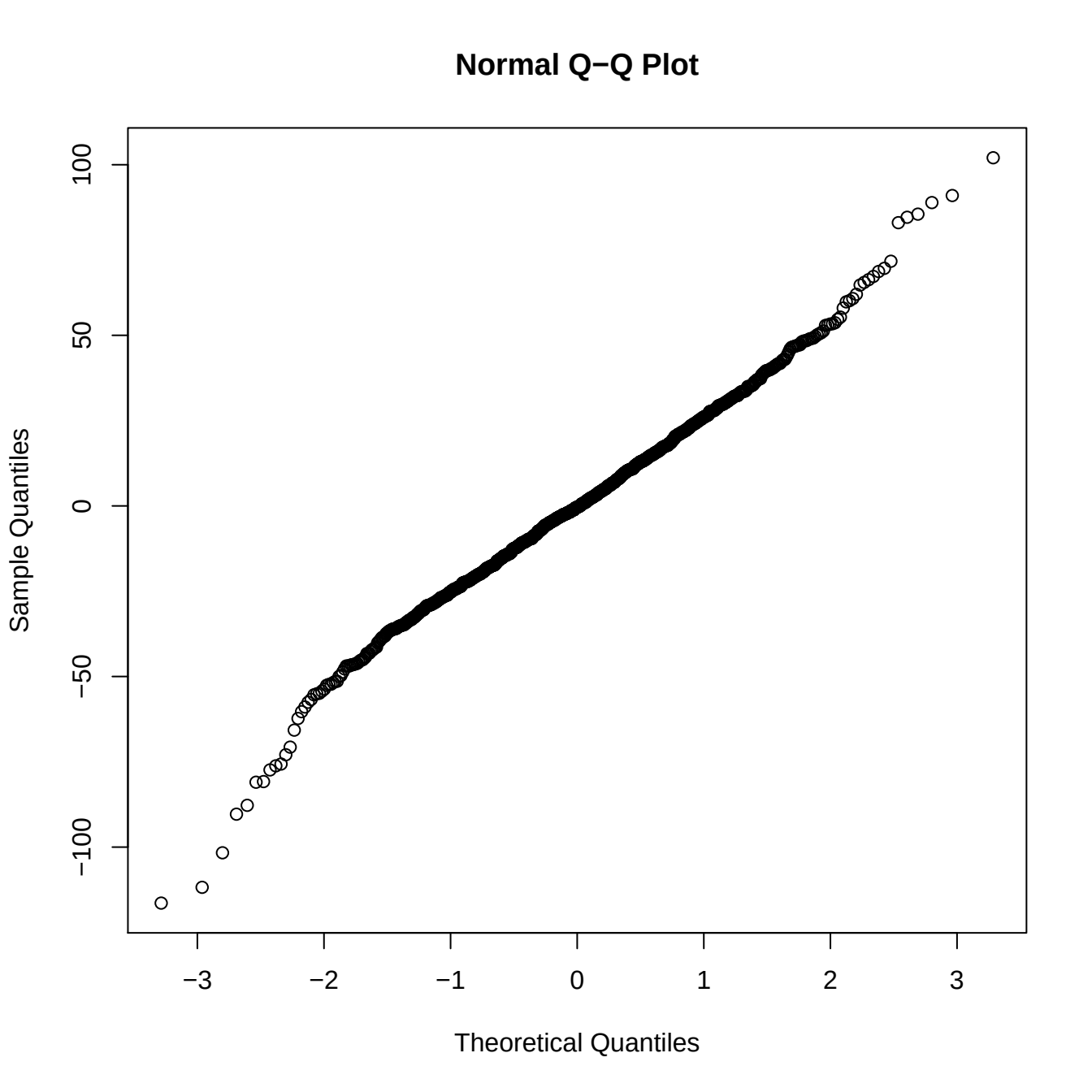

leaf_number_cbrt
2.0
2.5
3.0
3.5
4.0
4.5
5.0
dry.A10
wet.RIL_036
wet.RIL_085
wet.RIL_127
wet.RIL_175
wet.RIL_218
density_2013.model

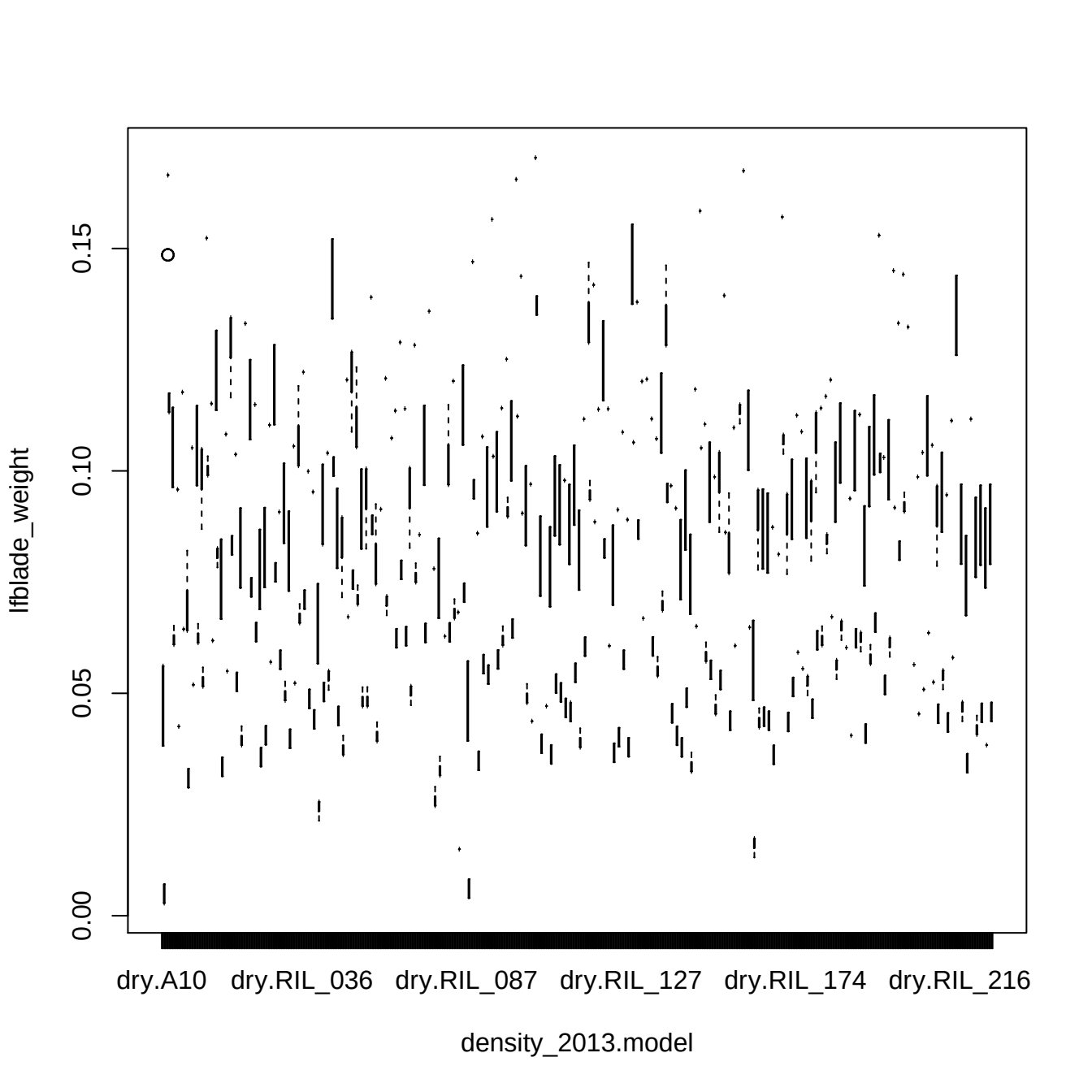

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−1.0
−0.5
0.0
0.5
1.0
1.5
−3
−2
−1
0
1
2
3

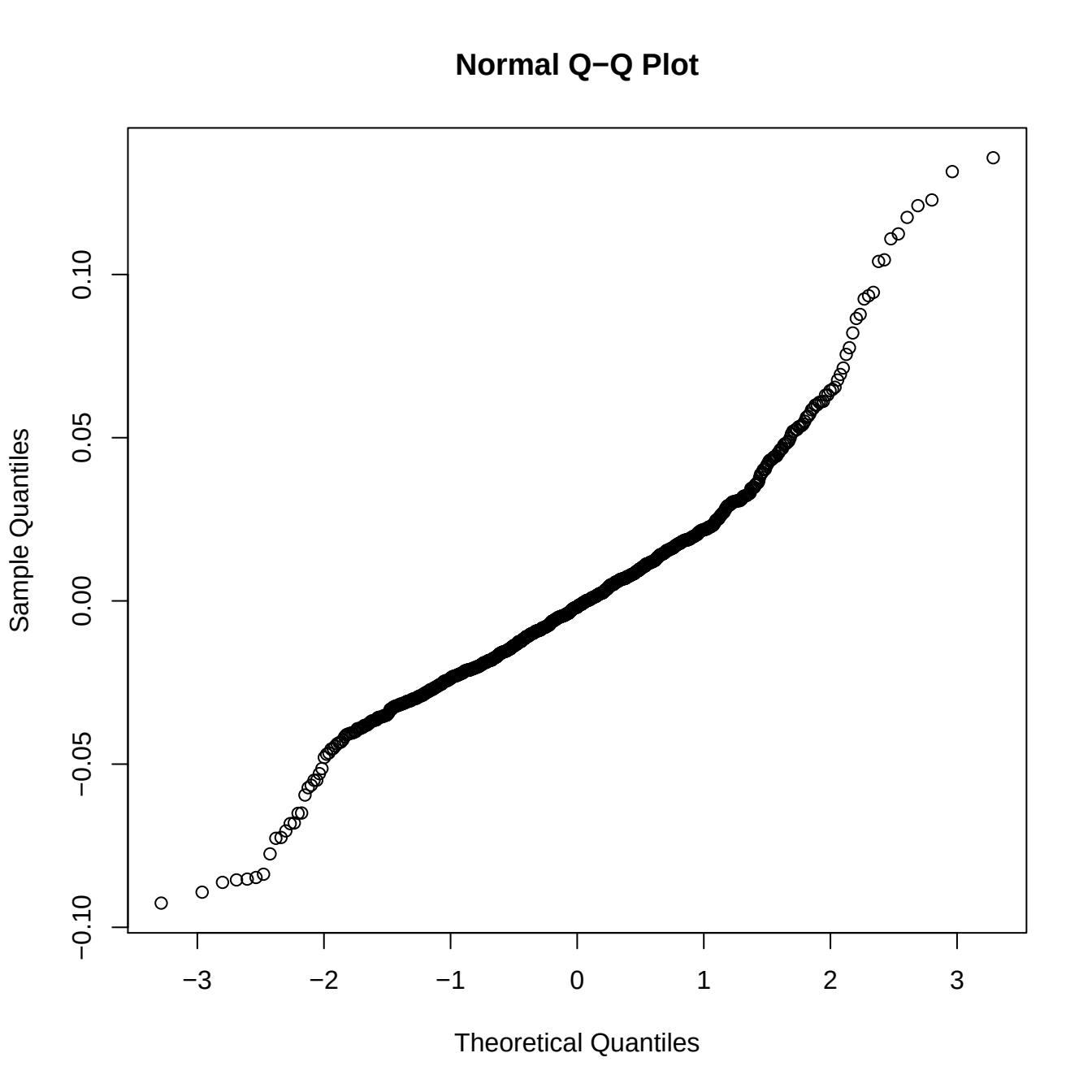

lfblade_area
10
20
30
40
dry.A10
dry.RIL_036
dry.RIL_087
dry.RIL_127
dry.RIL_174
dry.RIL_216
density_2013.model

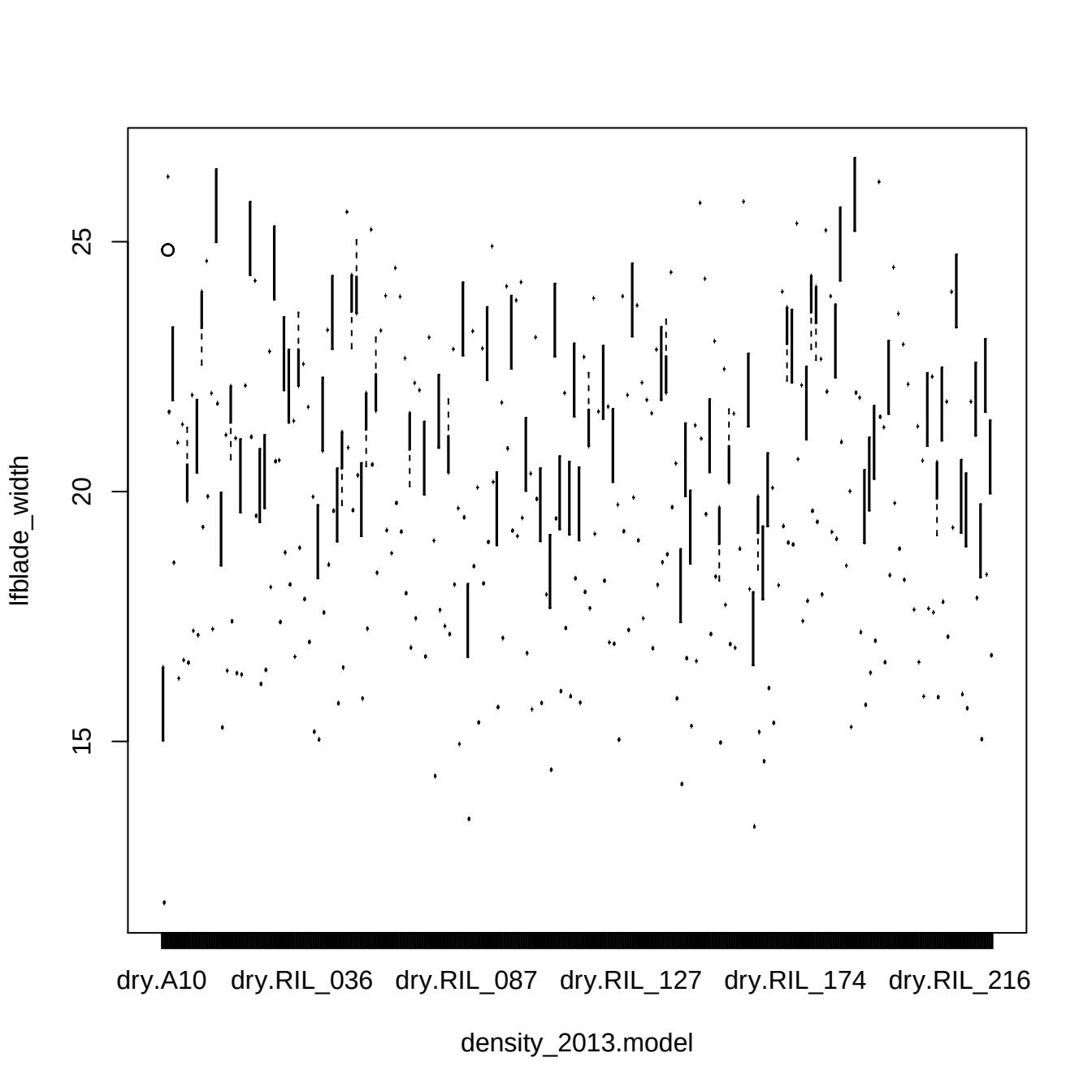

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
20
10
0
−10
−20
−3
−2
−1
0
1
2
3

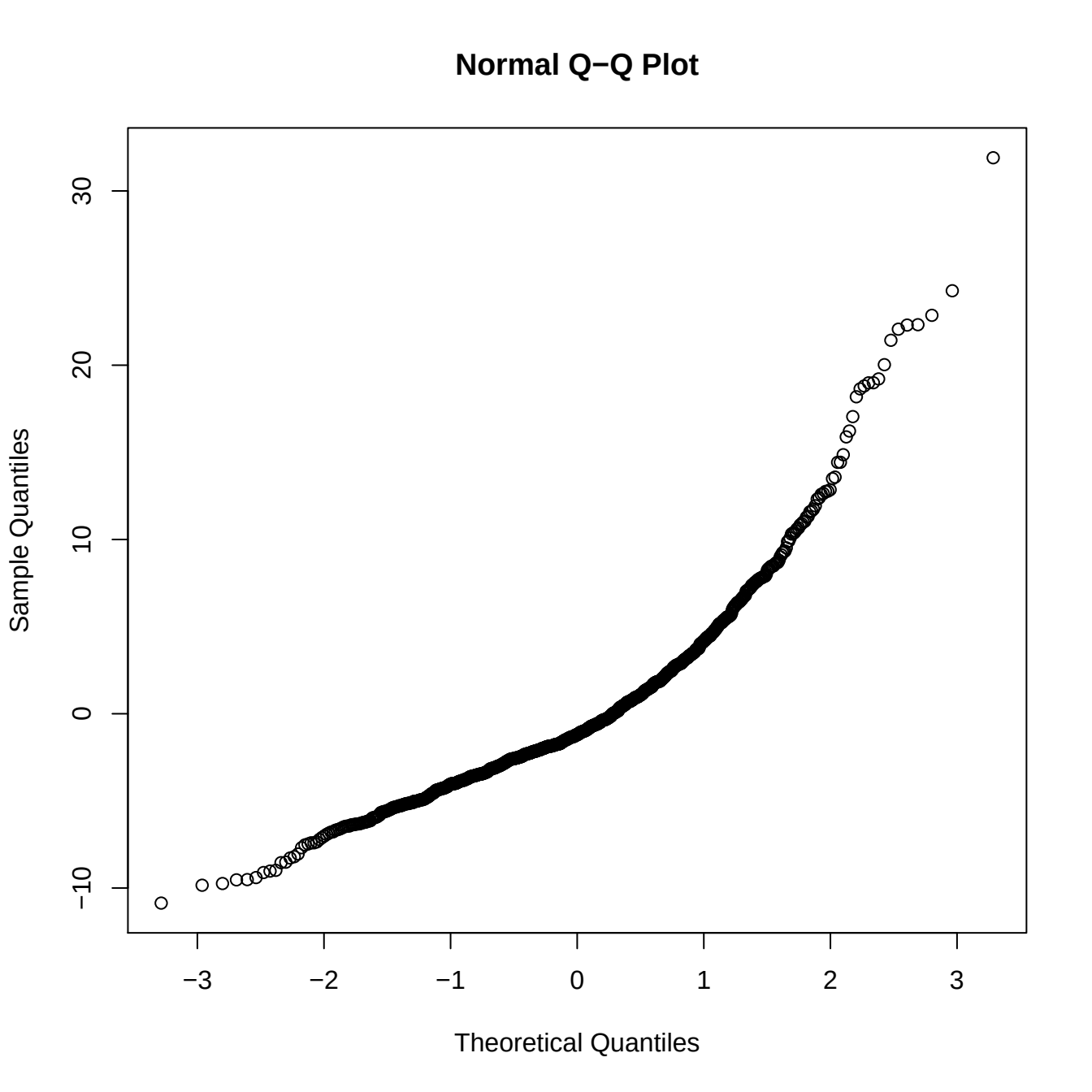

lfblade_length
100
150
200
250
300
dry.A10
dry.RIL_036
dry.RIL_087
dry.RIL_127
dry.RIL_174
dry.RIL_216
density_2013.model

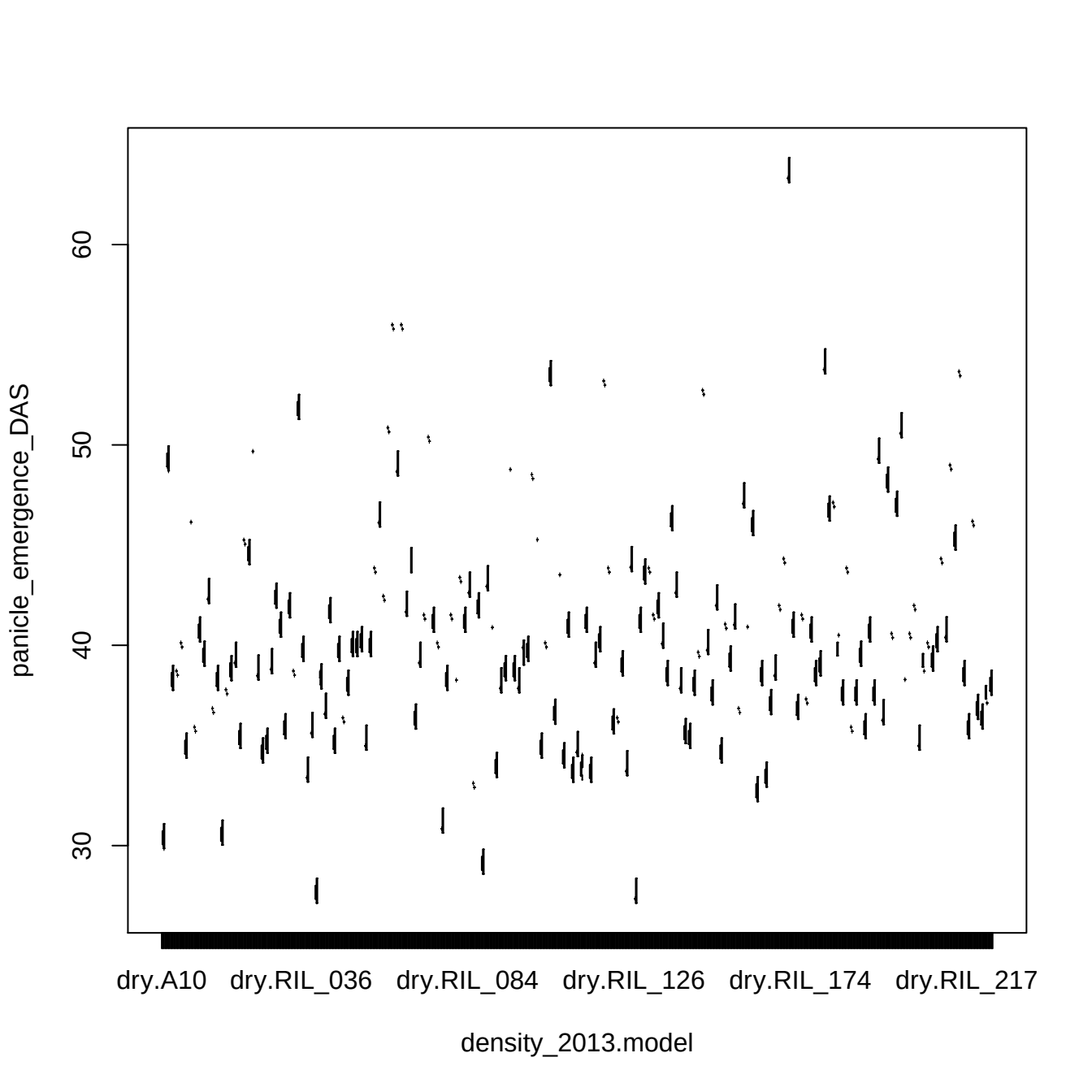

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
100
50
0
−50
−100
−3
−2
−1
0
1
2
3

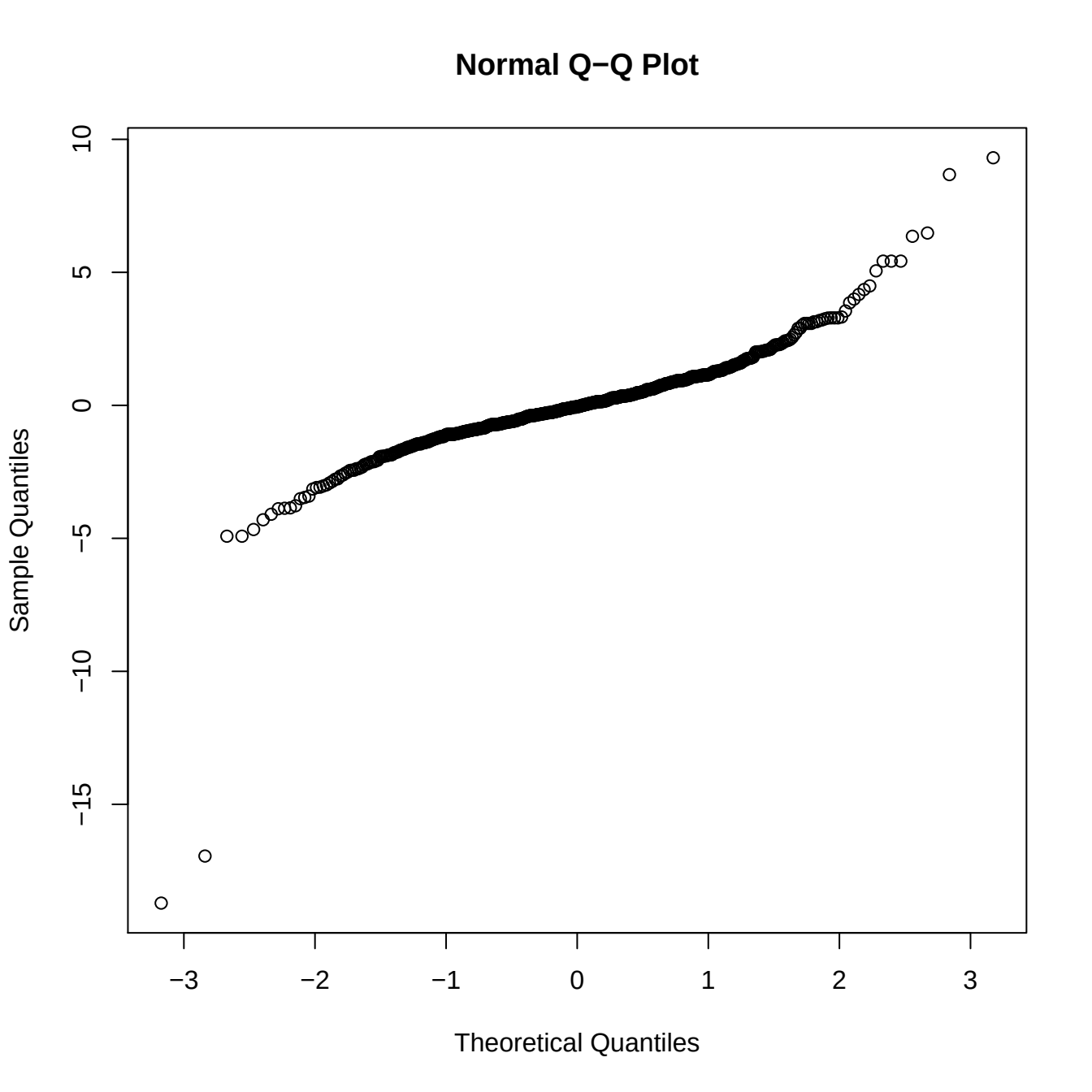

lfblade_weight
0.00
0.05
0.10
0.15
dry.A10
dry.RIL_036
dry.RIL_087
dry.RIL_127
dry.RIL_174
dry.RIL_216
density_2013.model

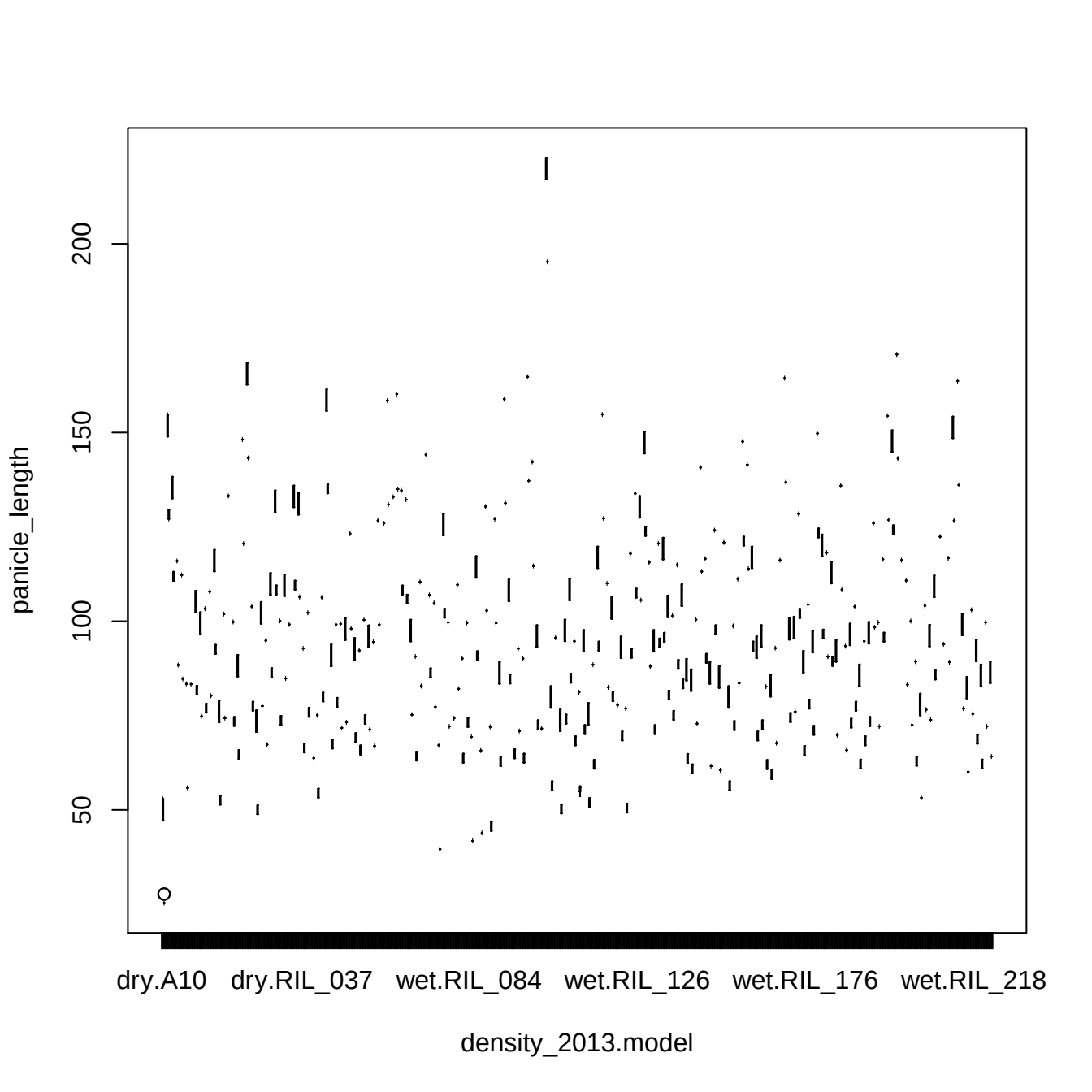

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.10
0.05
0.00
−0.05
−0.10
−3
−2
−1
0
1
2
3

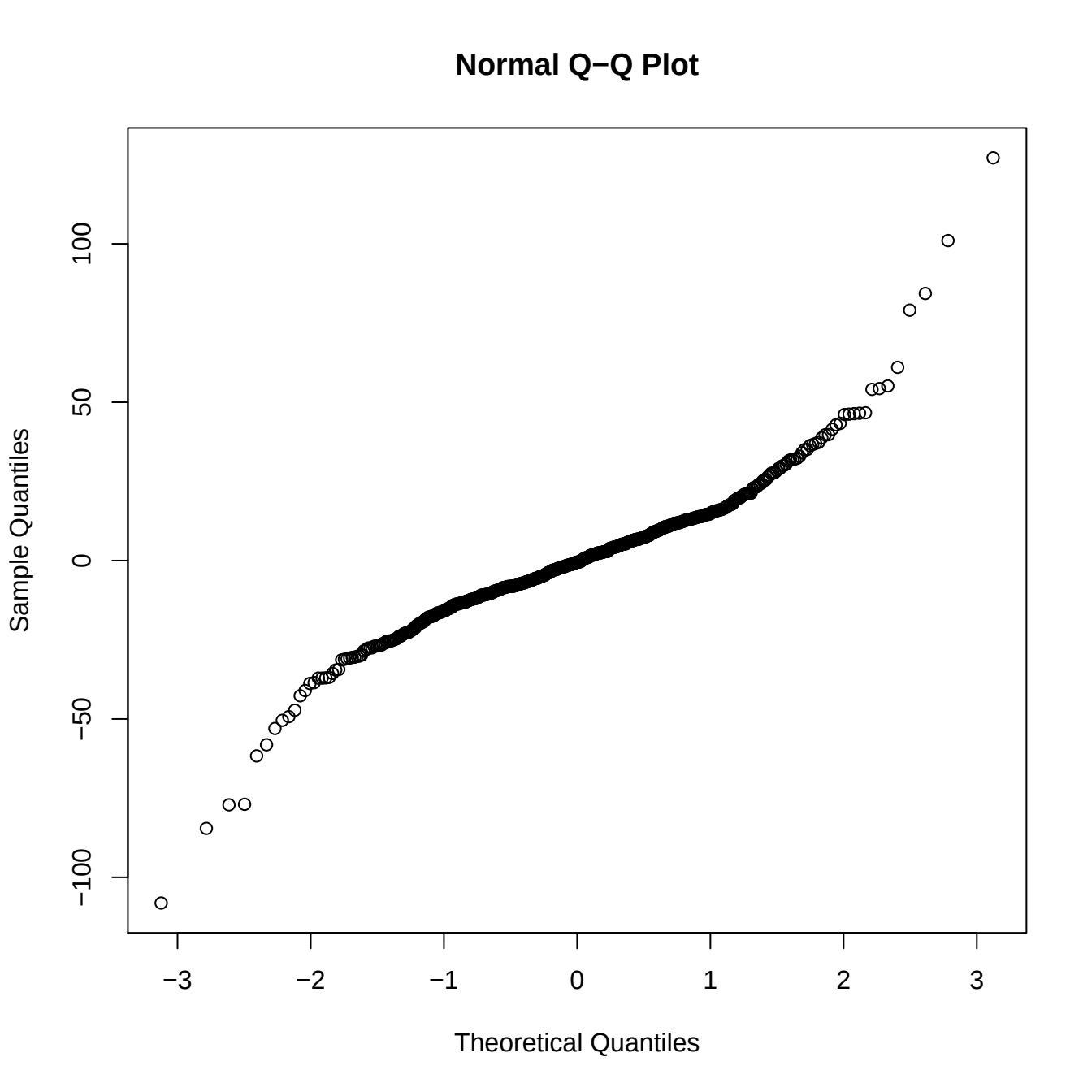

lfblade_width
15
20
25
dry.A10
dry.RIL_036
dry.RIL_087
dry.RIL_127
dry.RIL_174
dry.RIL_216
density_2013.model

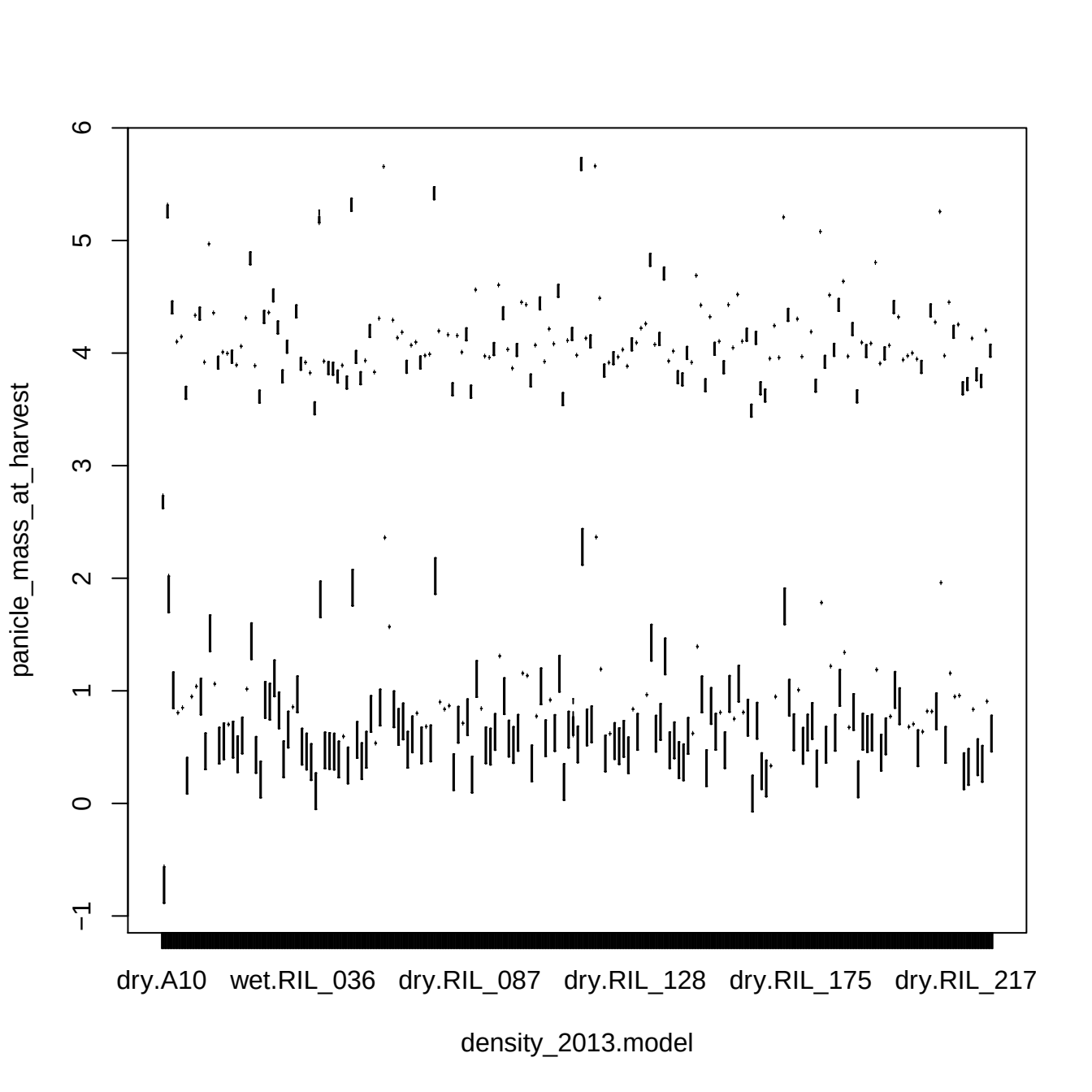

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
30
20
10
0
−10
−3
−2
−1
0
1
2
3

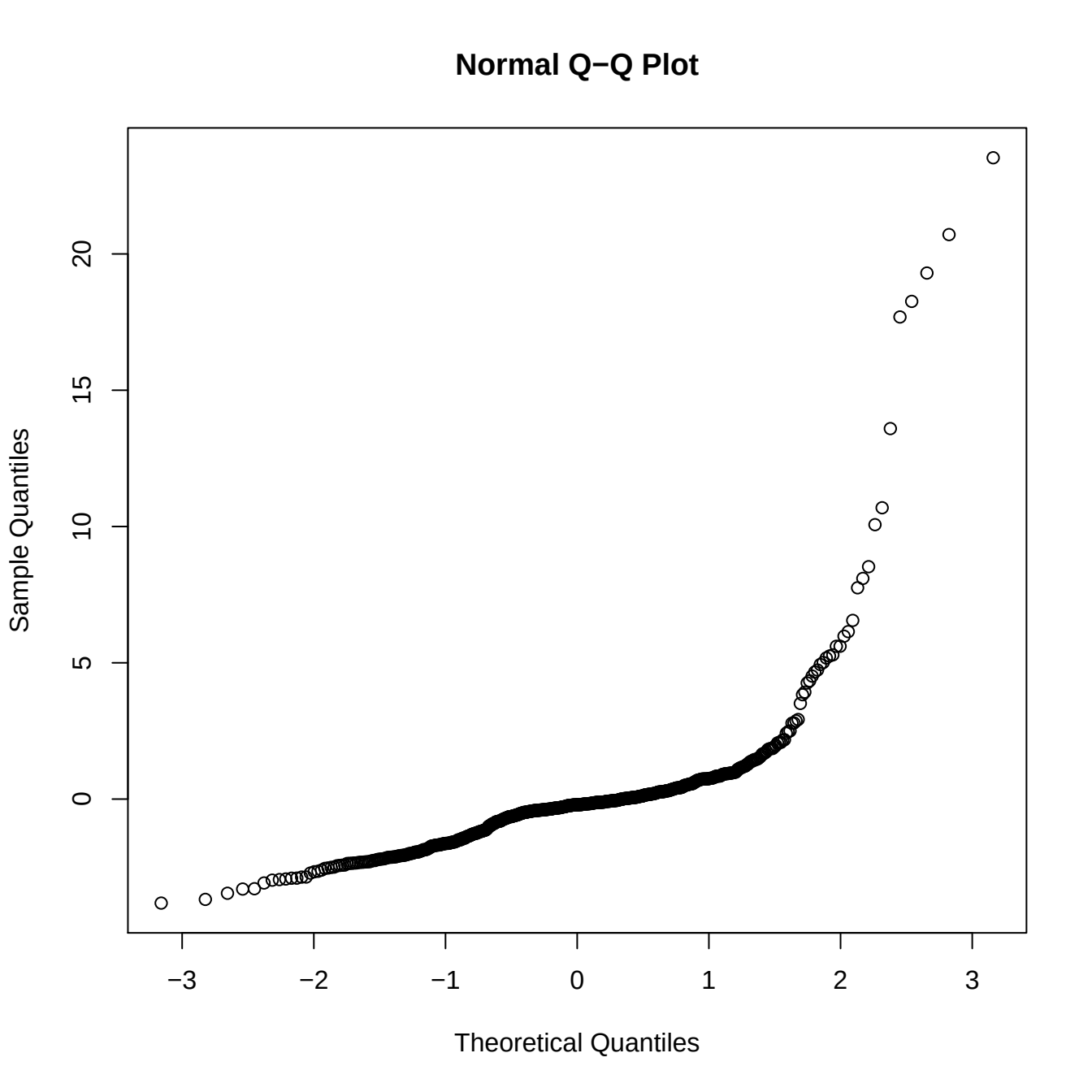

panicle_emergence_DAS
30
40
50
60
dry.A10
dry.RIL_036
dry.RIL_084
dry.RIL_126
dry.RIL_174
dry.RIL_217
density_2013.model

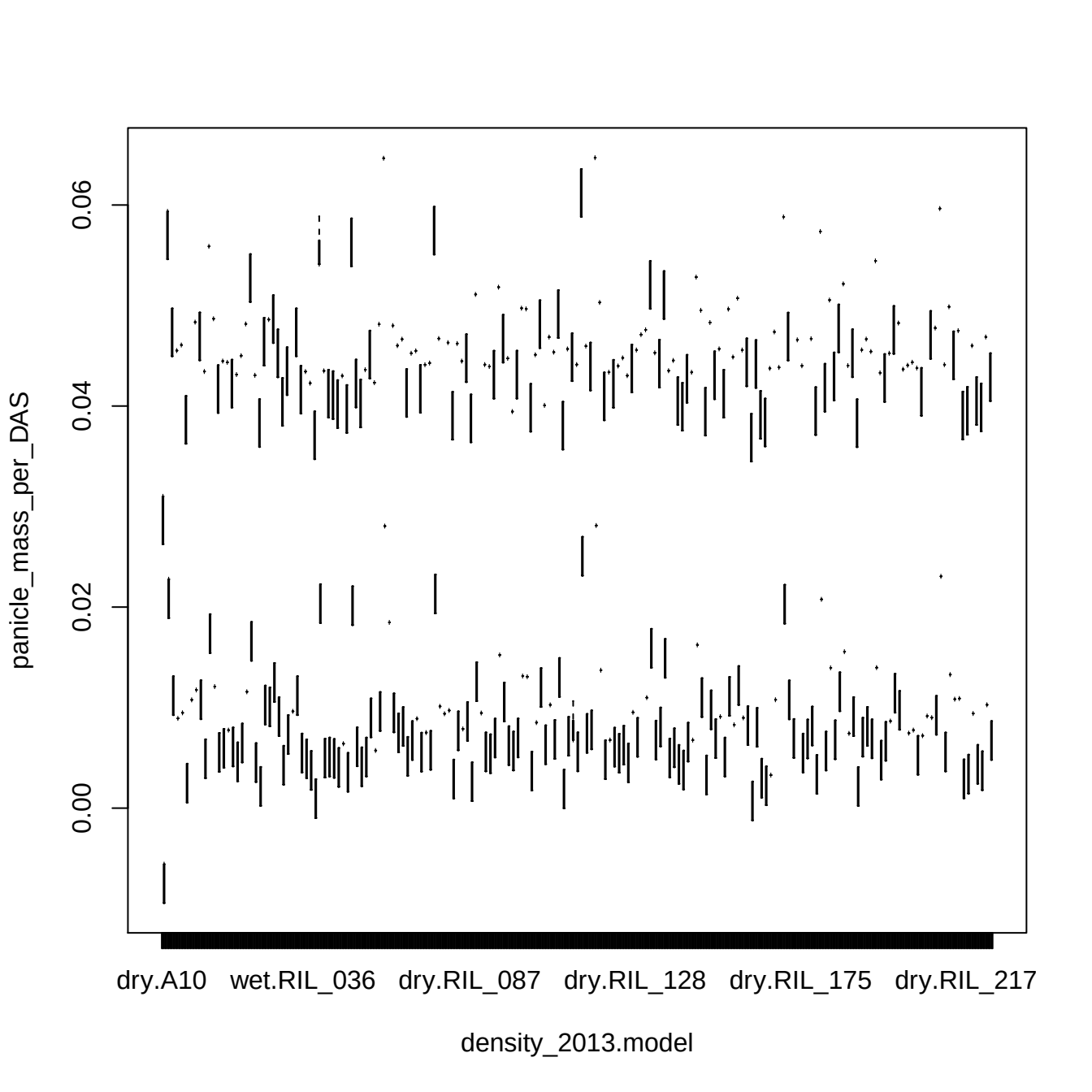

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
10
5
0
−5
−10
−15
−3
−2
−1
0
1
2
3

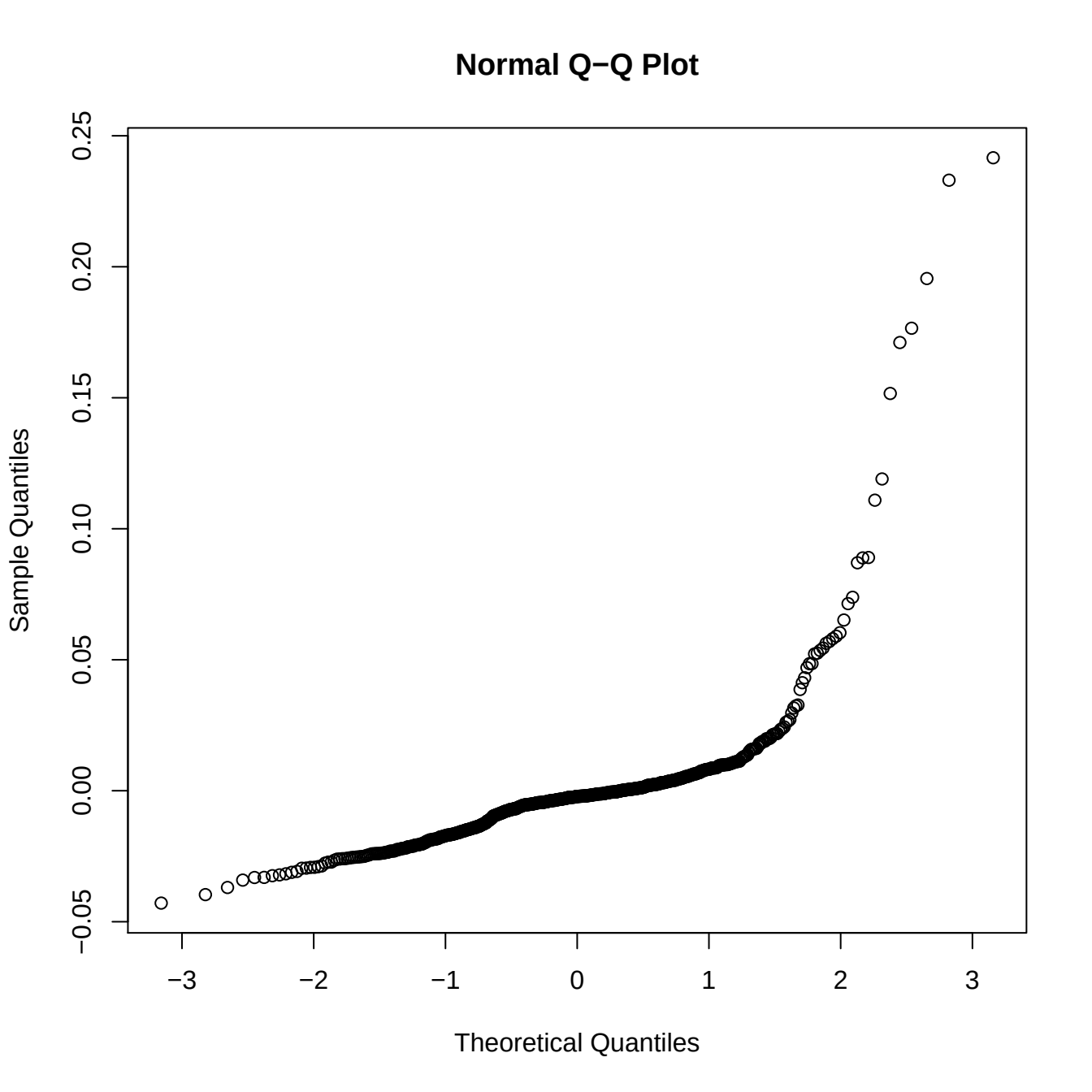

panicle_length
50
100
150
200
dry.A10
dry.RIL_037
wet.RIL_084
wet.RIL_126
wet.RIL_176
wet.RIL_218
density_2013.model

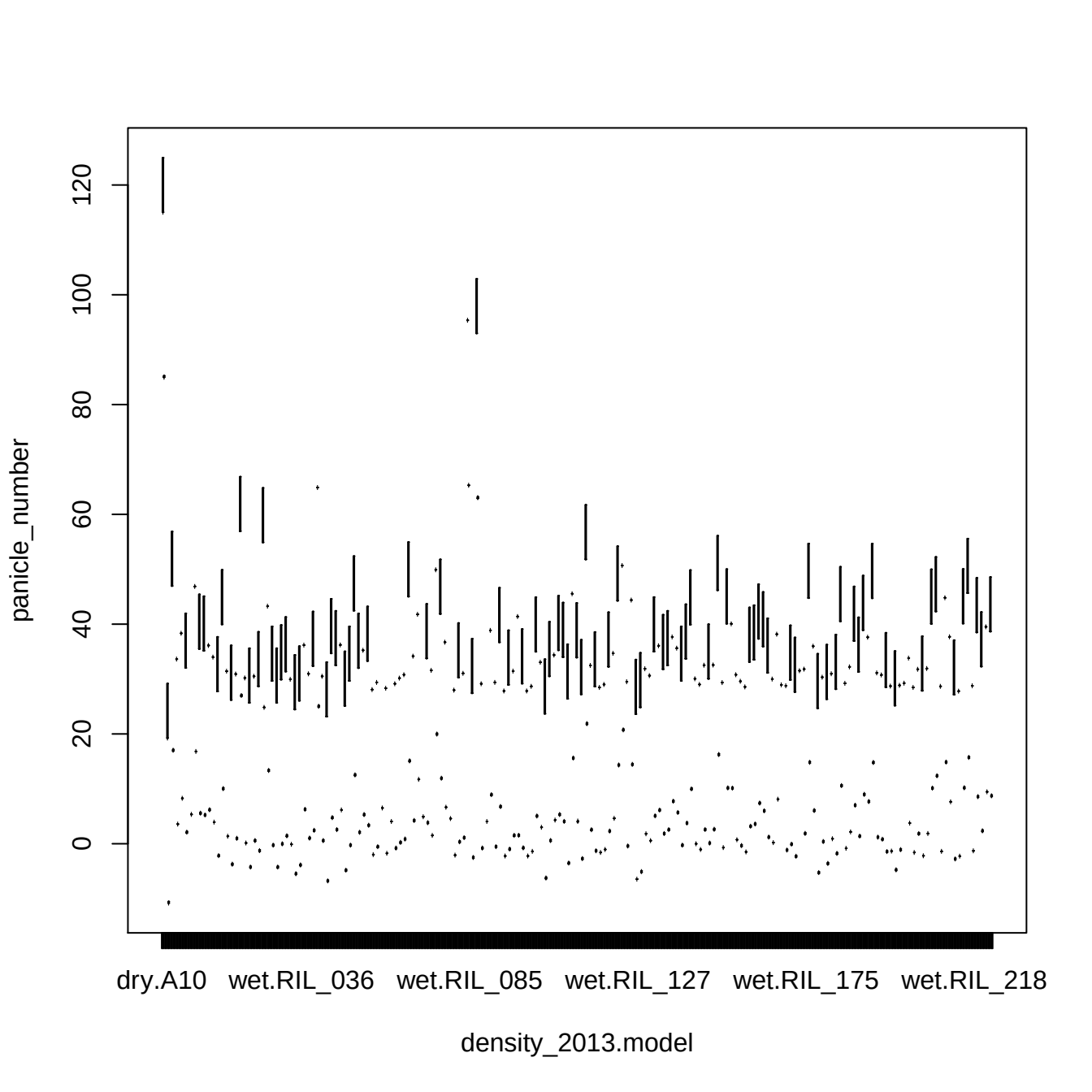

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
100
50
0
−50
−100
−3
−2
−1
0
1
2
3

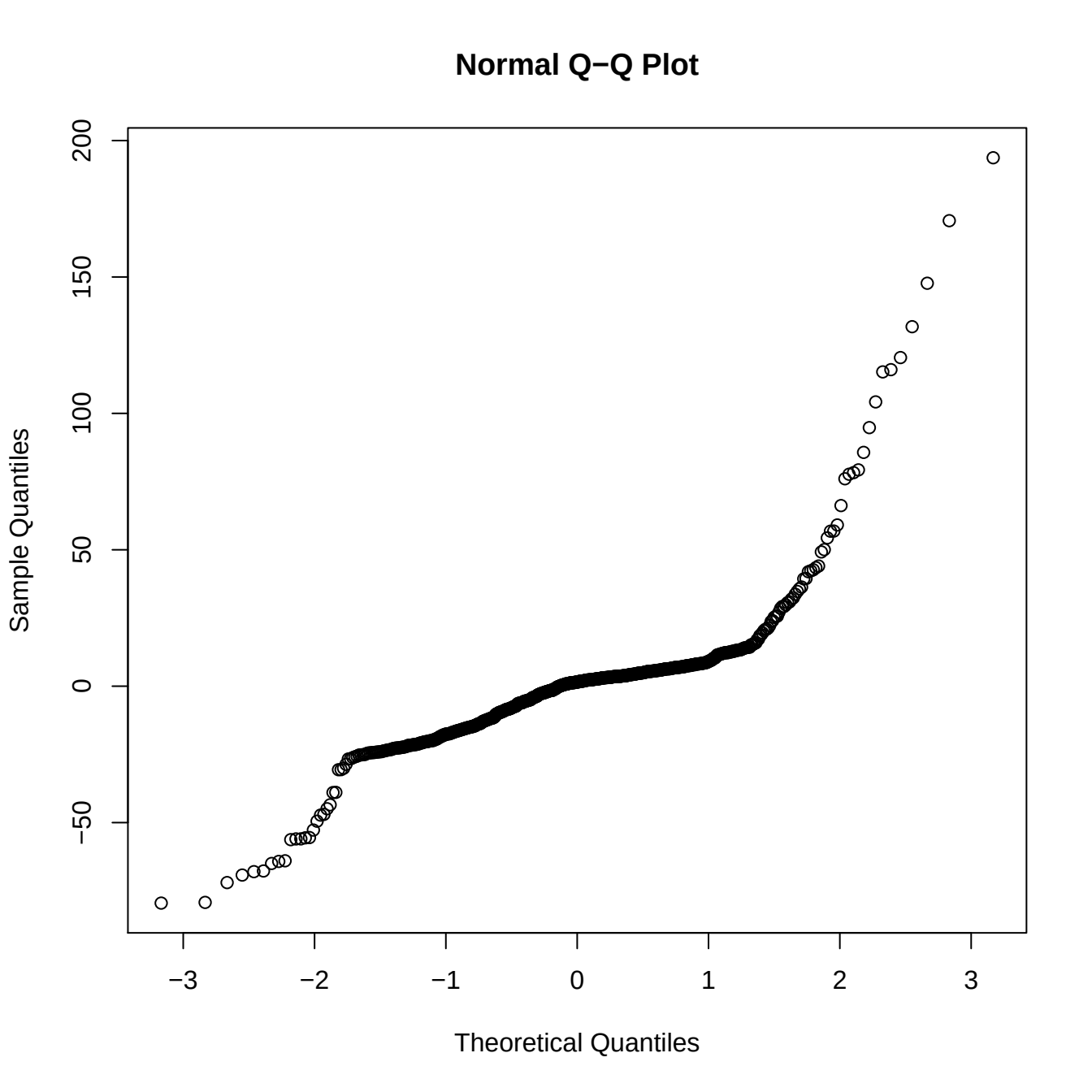

6
5
4
3
2
1
0
−1
panicle_mass_at_harvest
dry.A10
wet.RIL_036
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.model

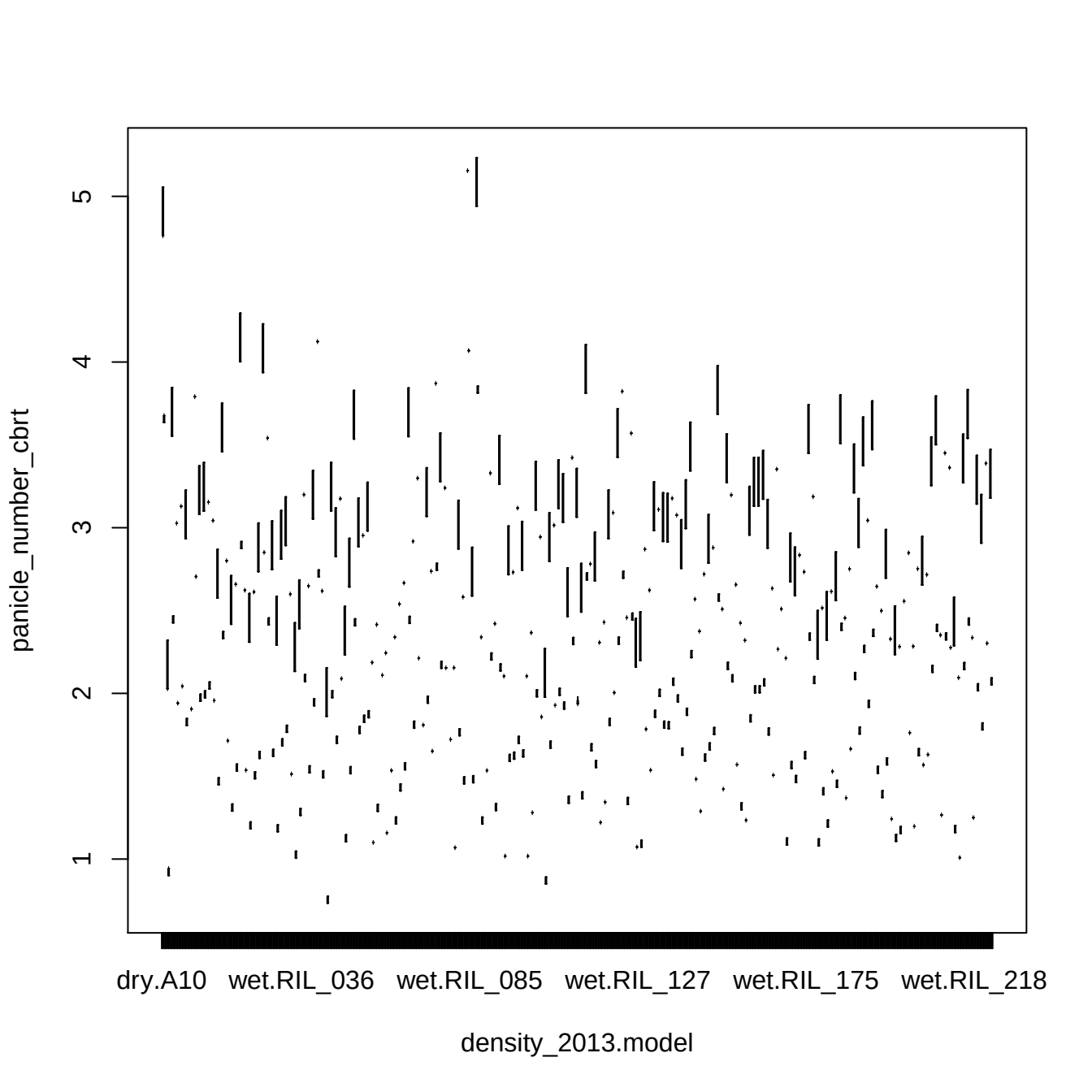

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0
5
10
15
20
−3
−2
−1
0
1
2
3

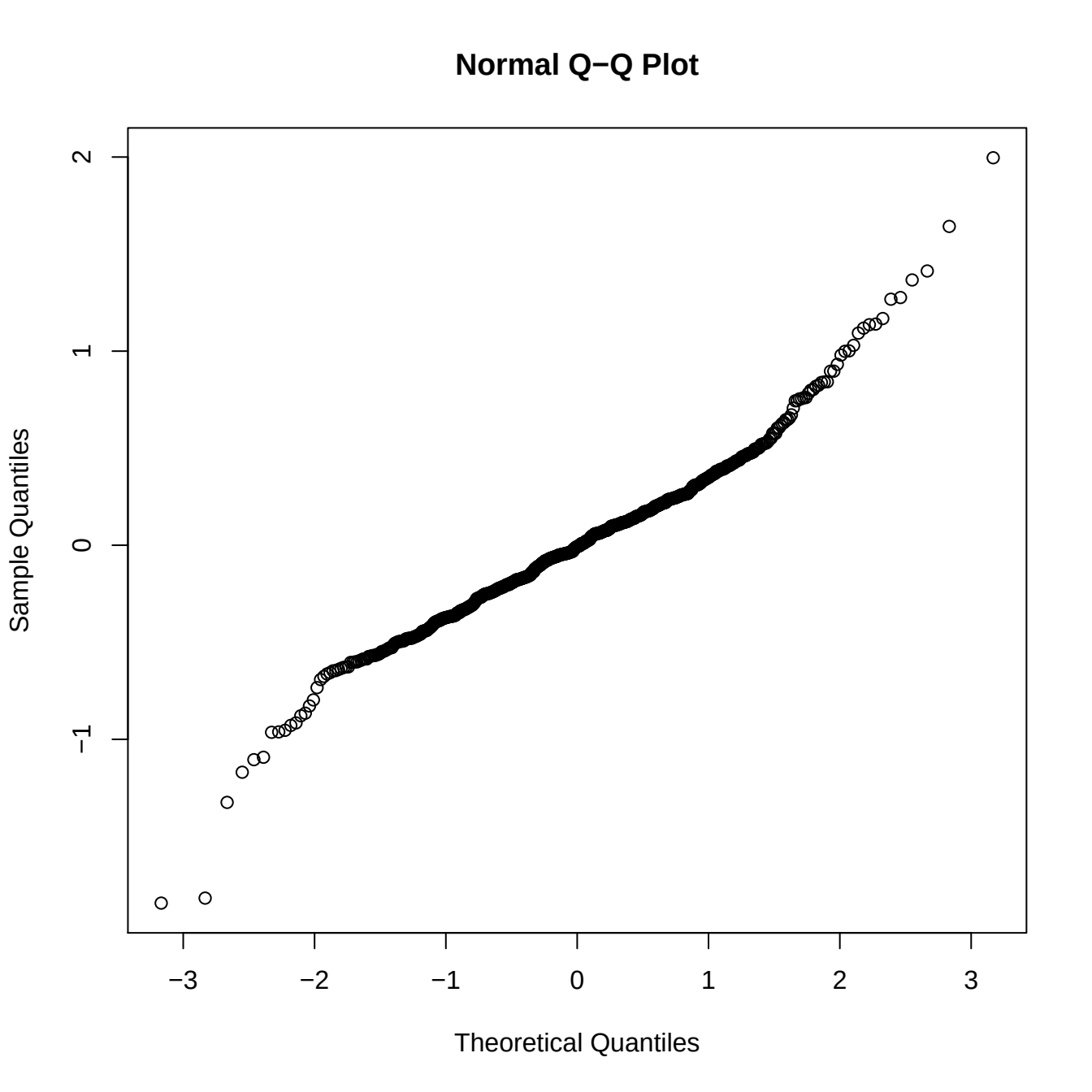

panicle_mass_per_DAS
0.00
0.02
0.04
0.06
dry.A10
wet.RIL_036
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.model

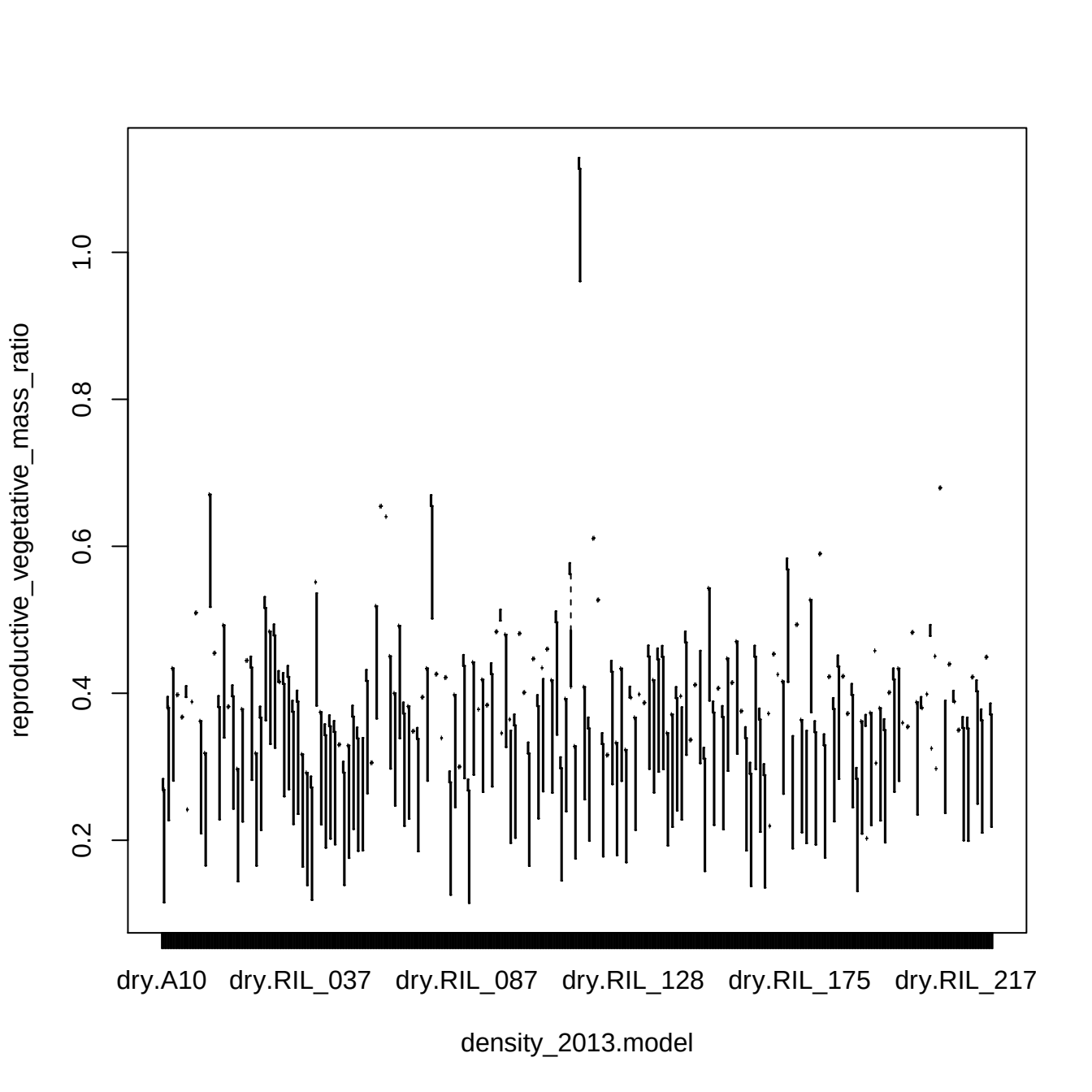

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
−3
−2
−1
0
1
2
3

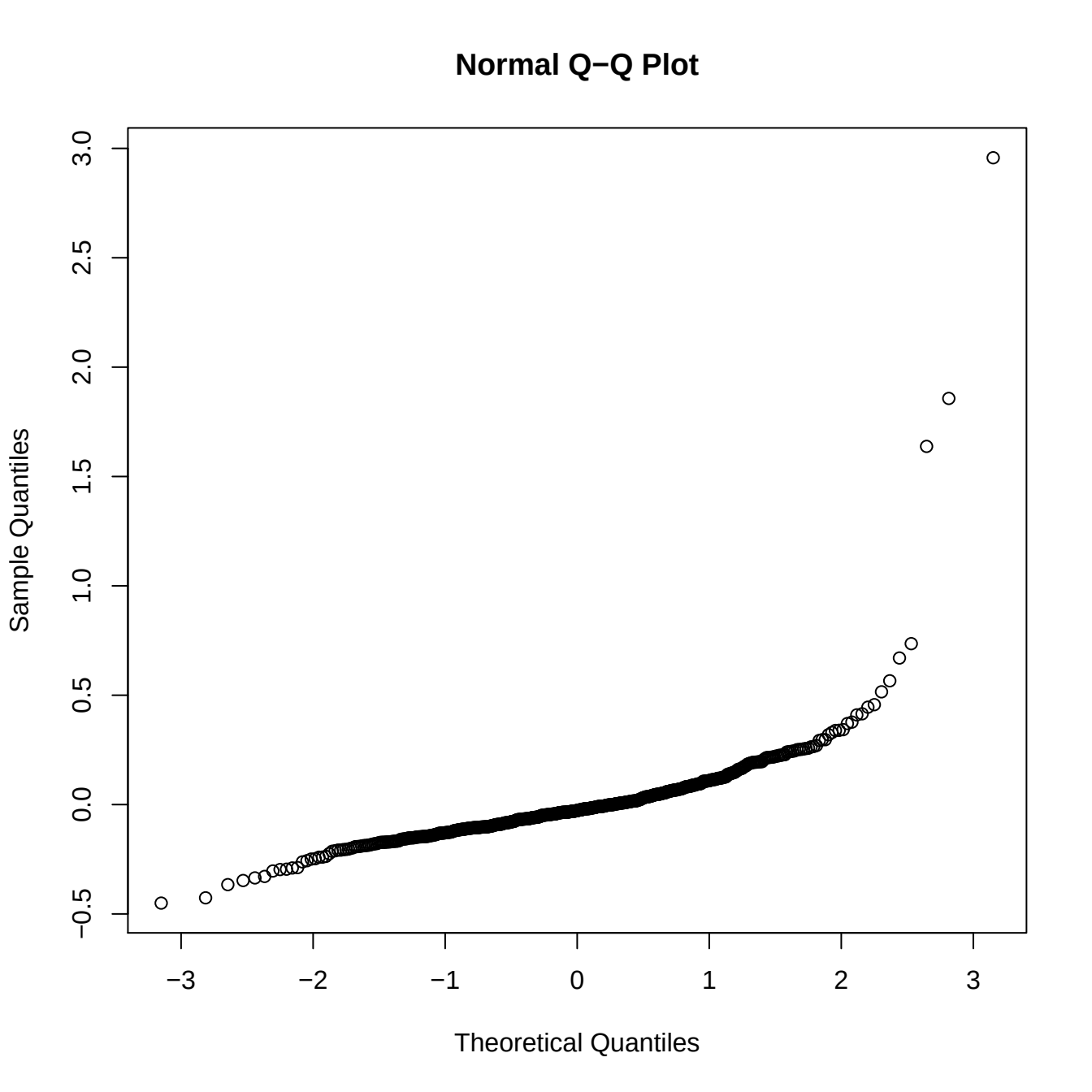

panicle_number
0
20
40
60
80
100
120
dry.A10
wet.RIL_036
wet.RIL_085
wet.RIL_127
wet.RIL_175
wet.RIL_218
density_2013.model

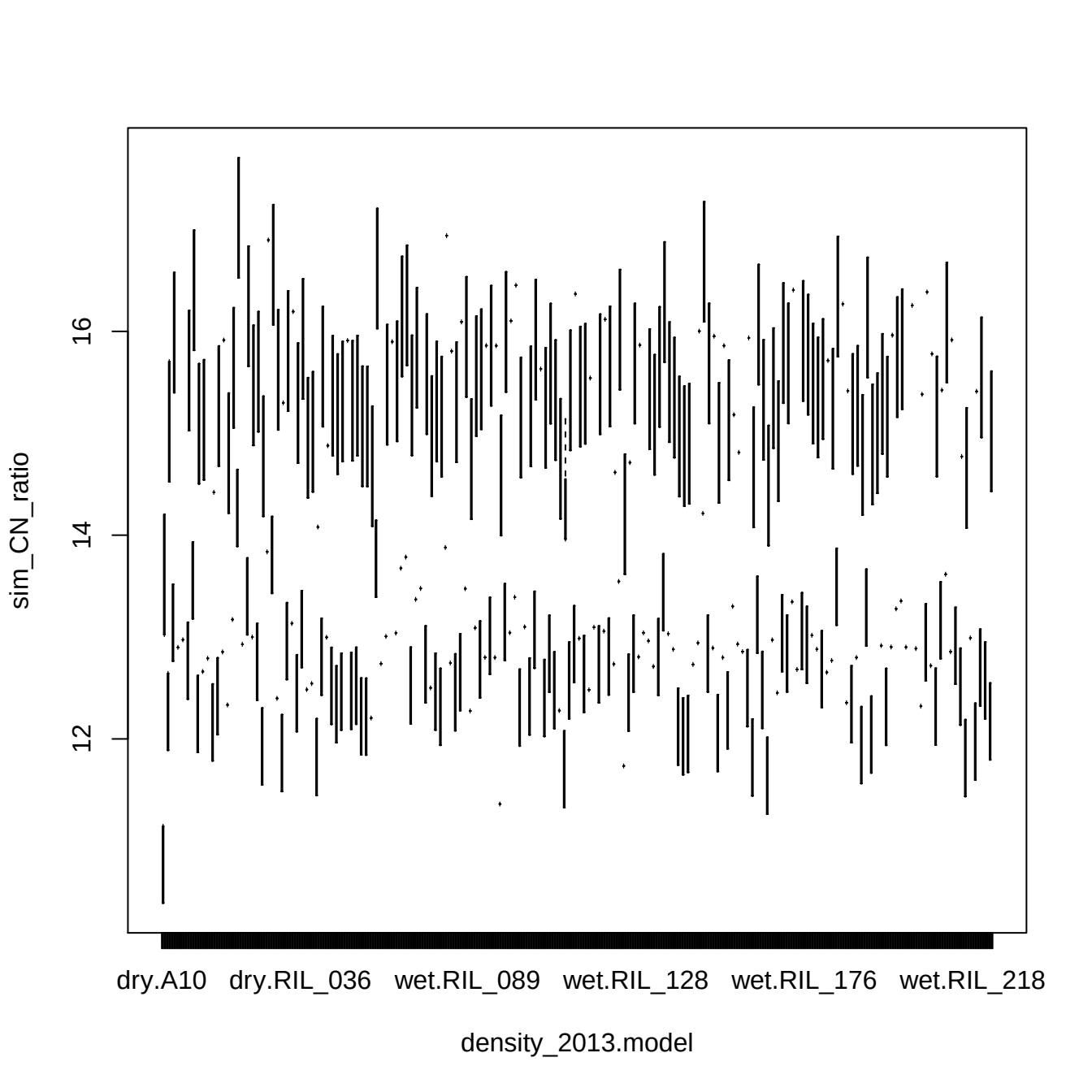

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
200
150
100
50
0
−50
−3
−2
−1
0
1
2
3

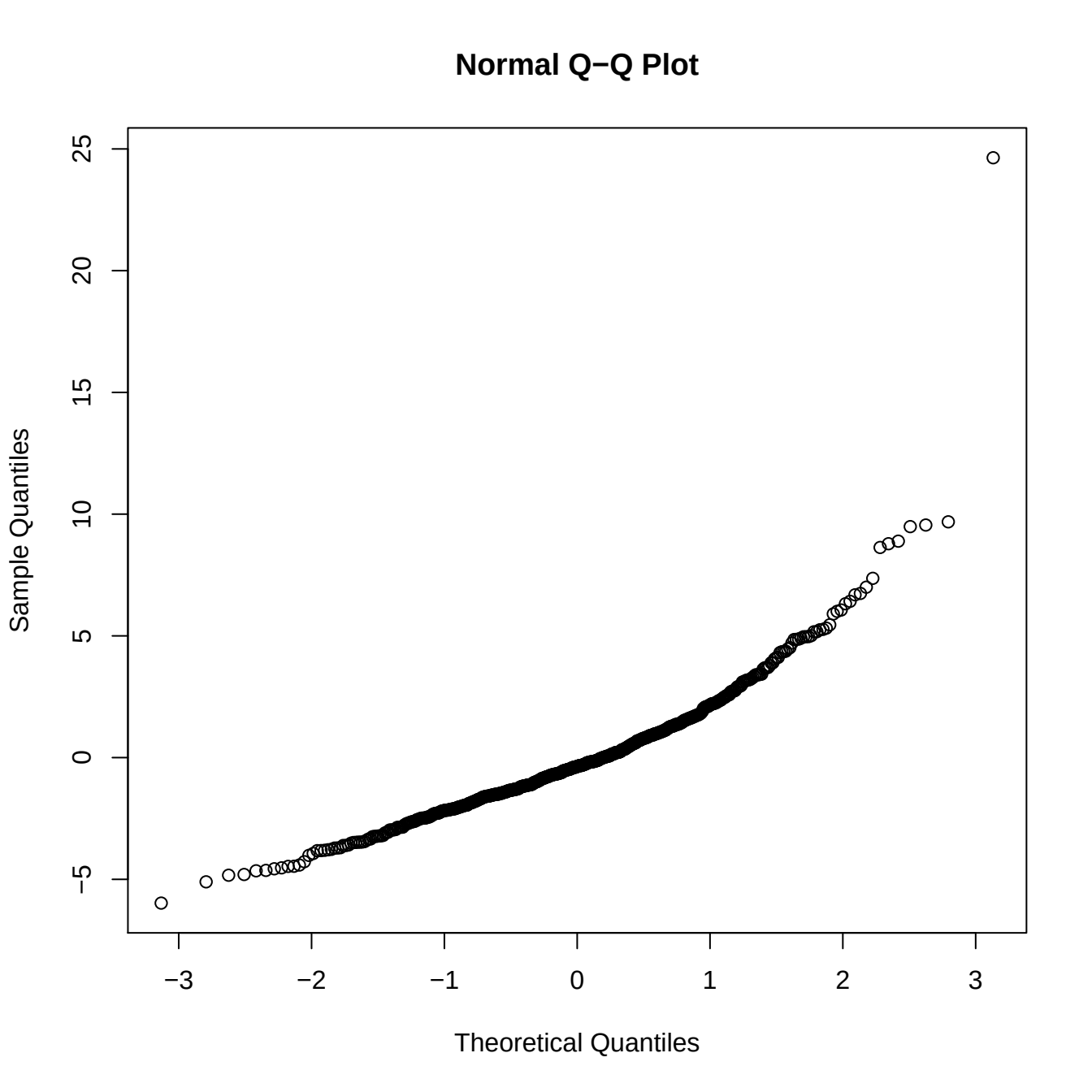

panicle_number_cbrt
1
2
3
4
5
dry.A10
wet.RIL_036
wet.RIL_085
wet.RIL_127
wet.RIL_175
wet.RIL_218
density_2013.model

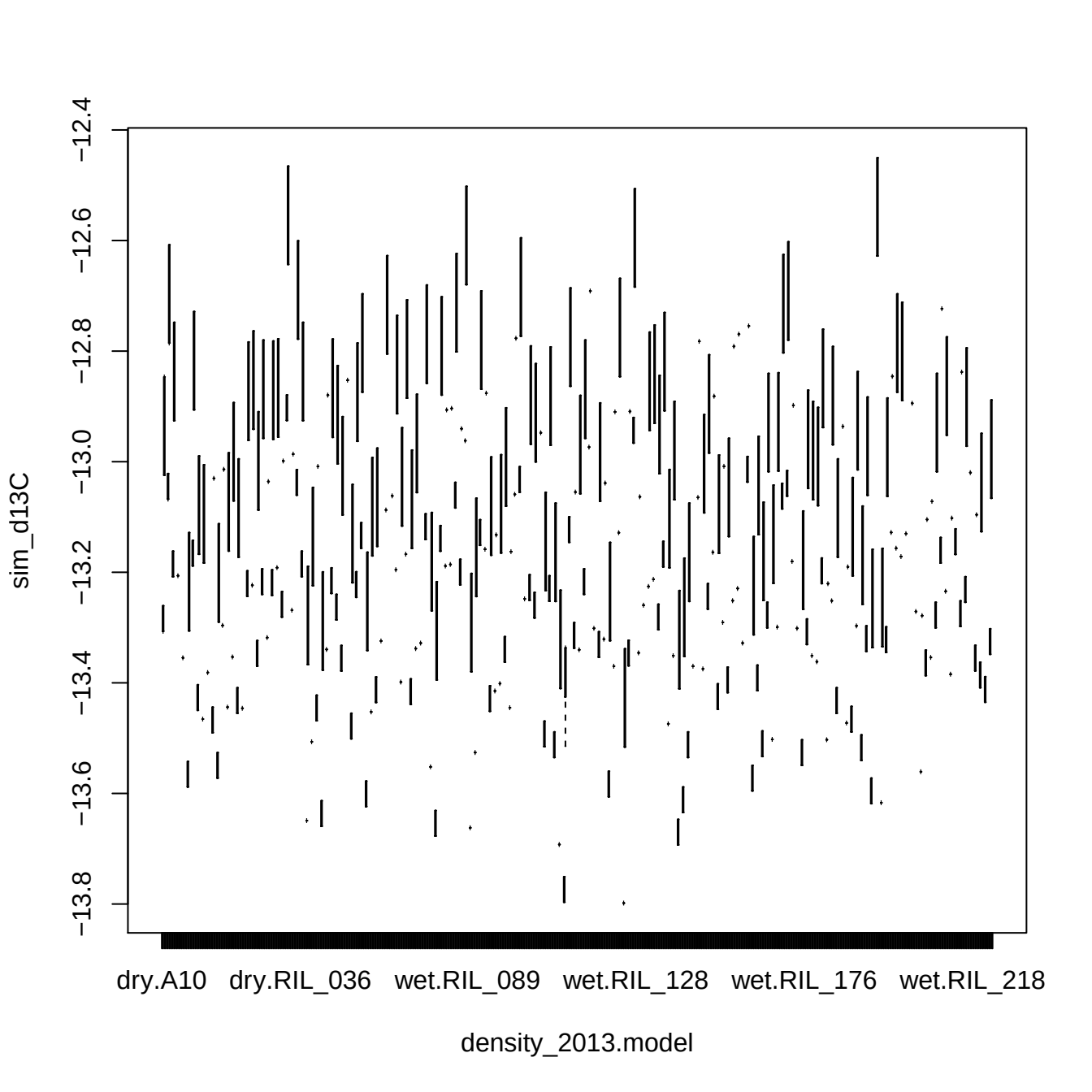

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
2
1
0
−1
−3
−2
−1
0
1
2
3

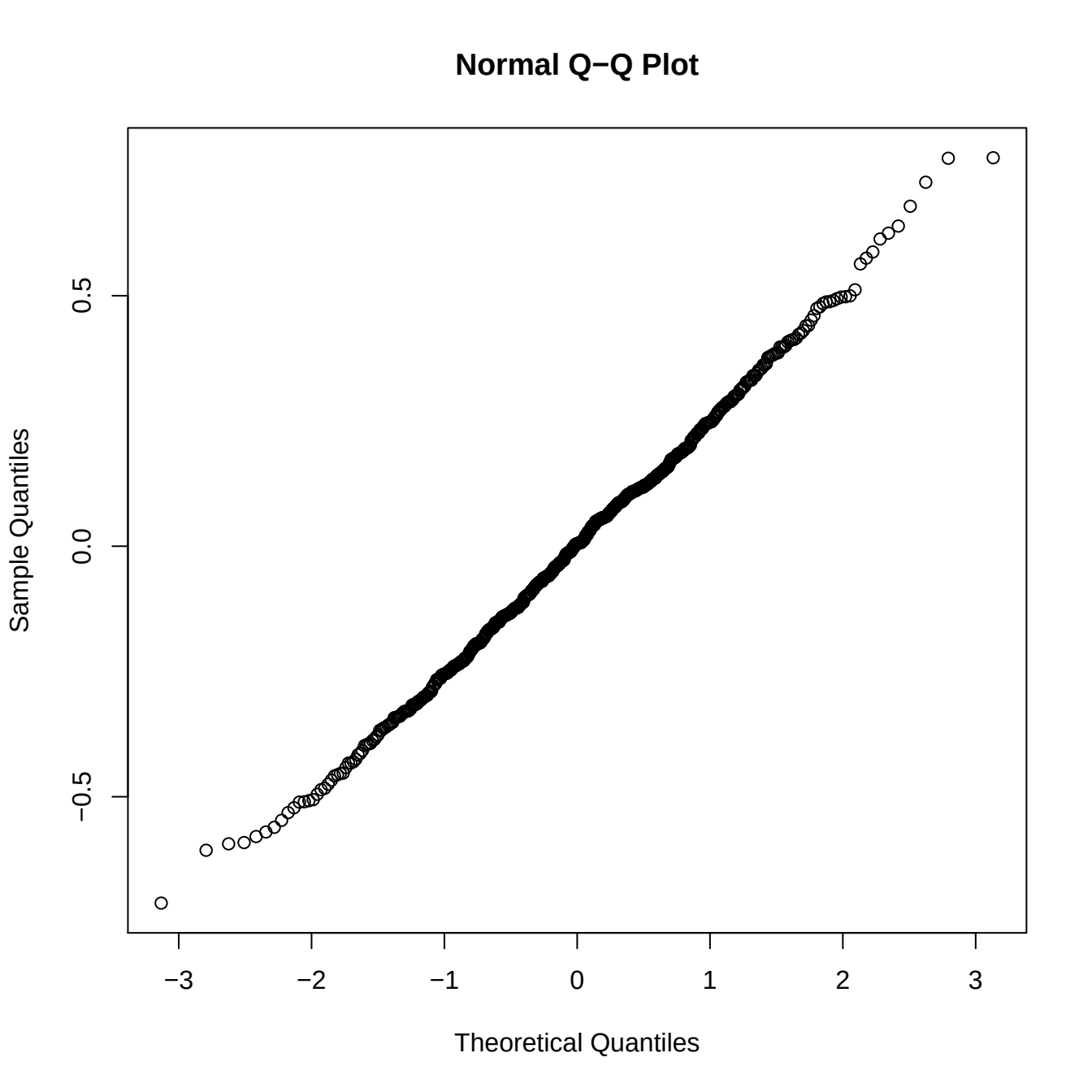

reproductive_vegetative_mass_ratio
0.2
0.4
0.6
0.8
1.0
dry.A10
dry.RIL_037
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.model

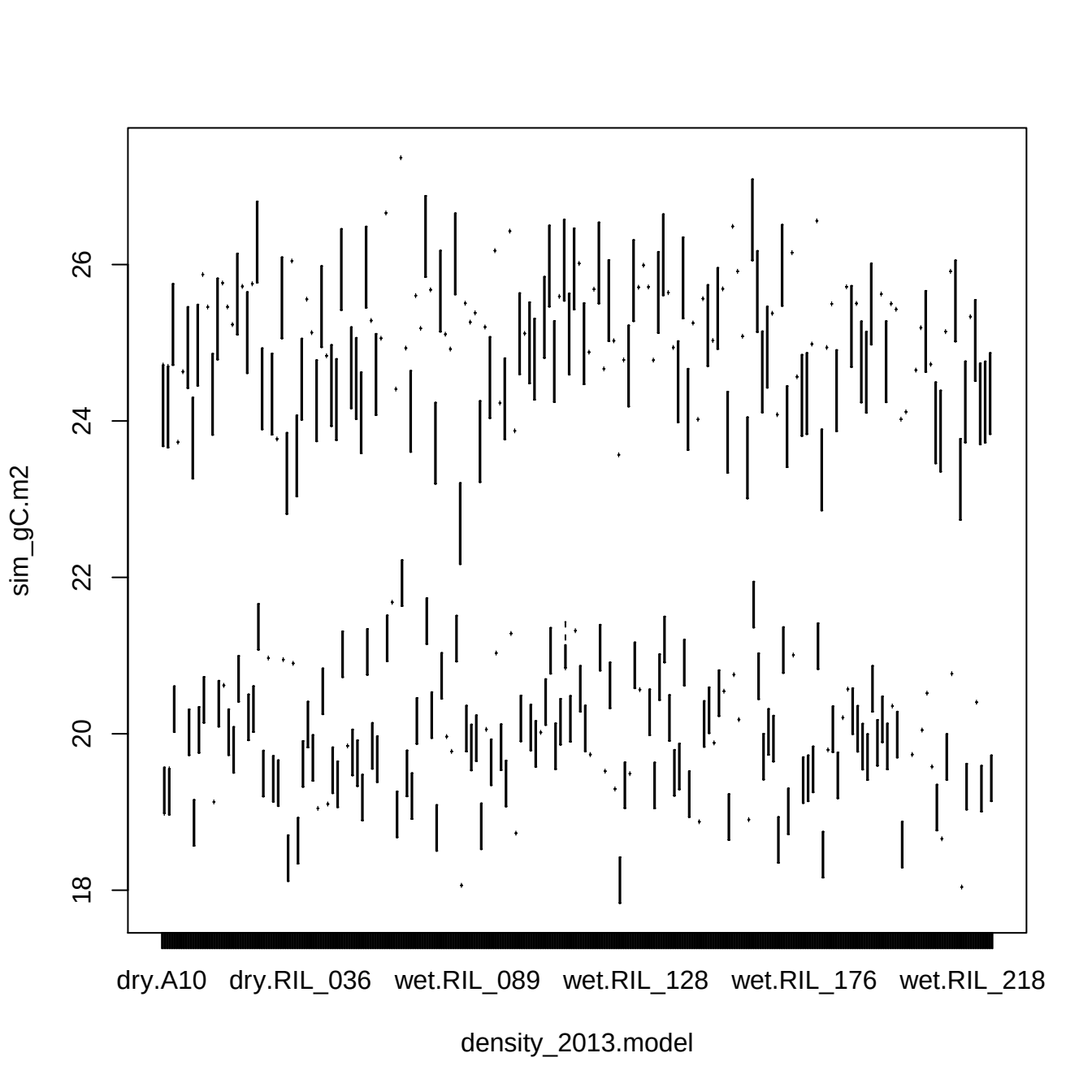

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−3
−2
−1
0
1
2
3

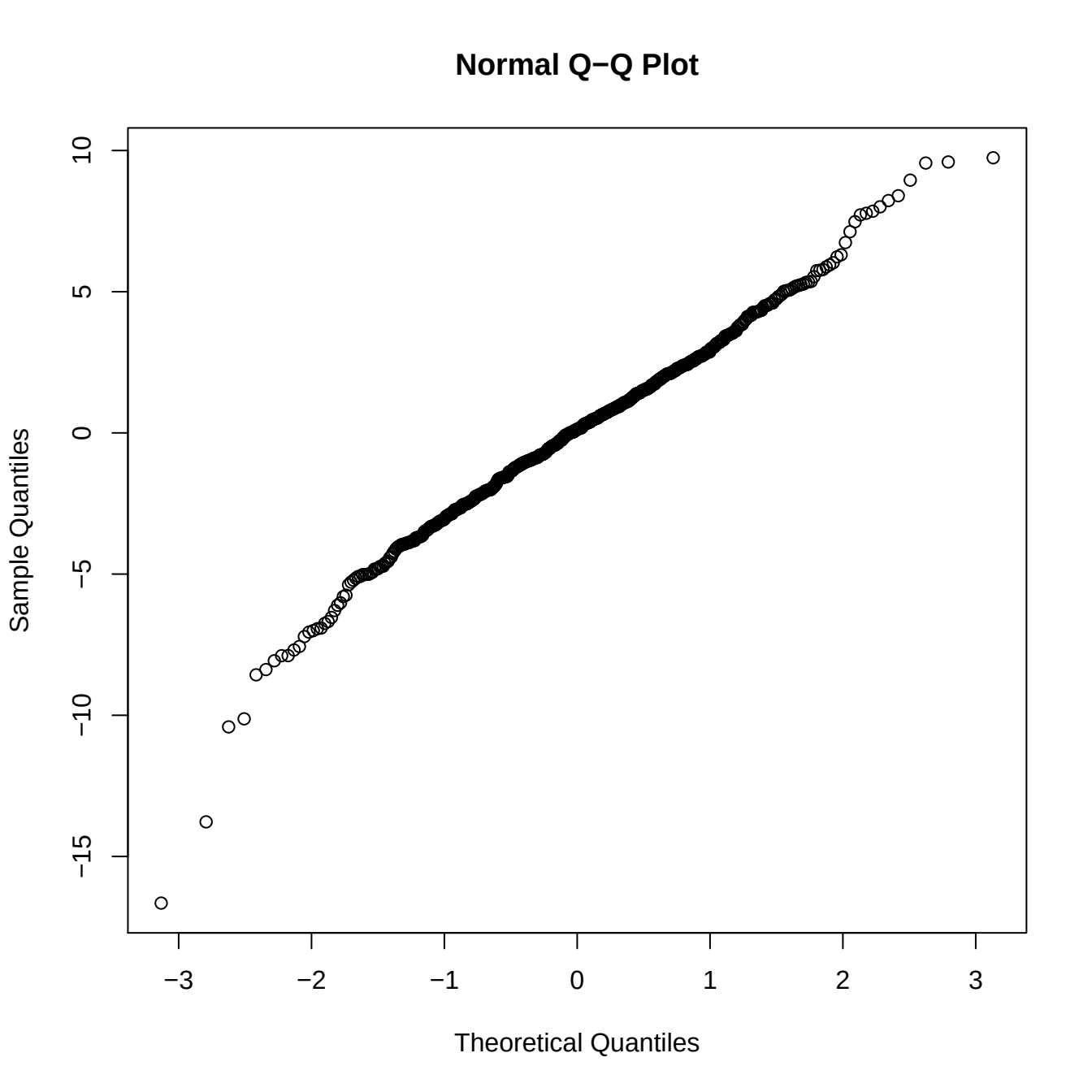

sim_CN_ratio
12
14
16
dry.A10
dry.RIL_036
wet.RIL_089
wet.RIL_128
wet.RIL_176
wet.RIL_218
density_2013.model

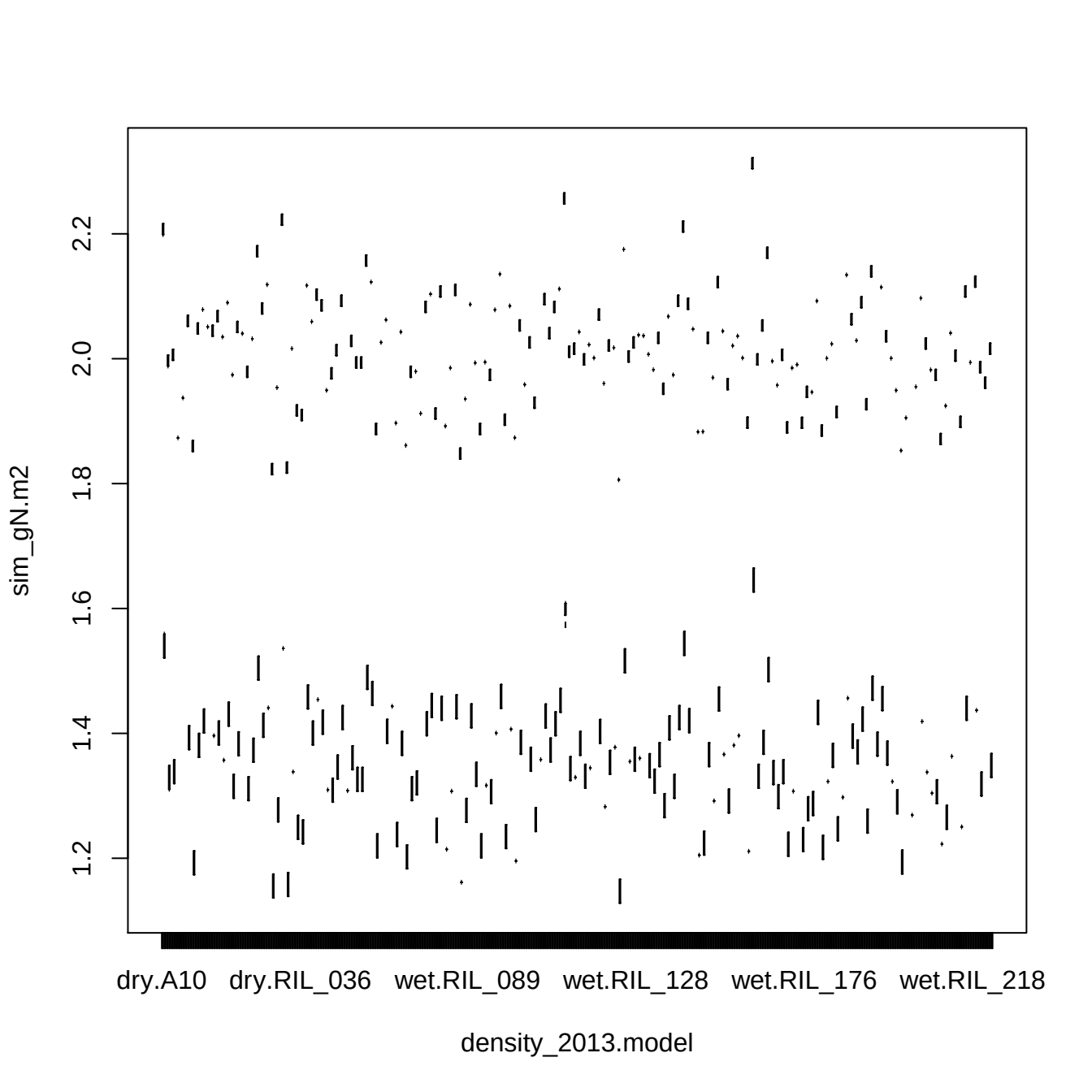

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
25
20
15
10
5
0
−5
−3
−2
−1
0
1
2
3

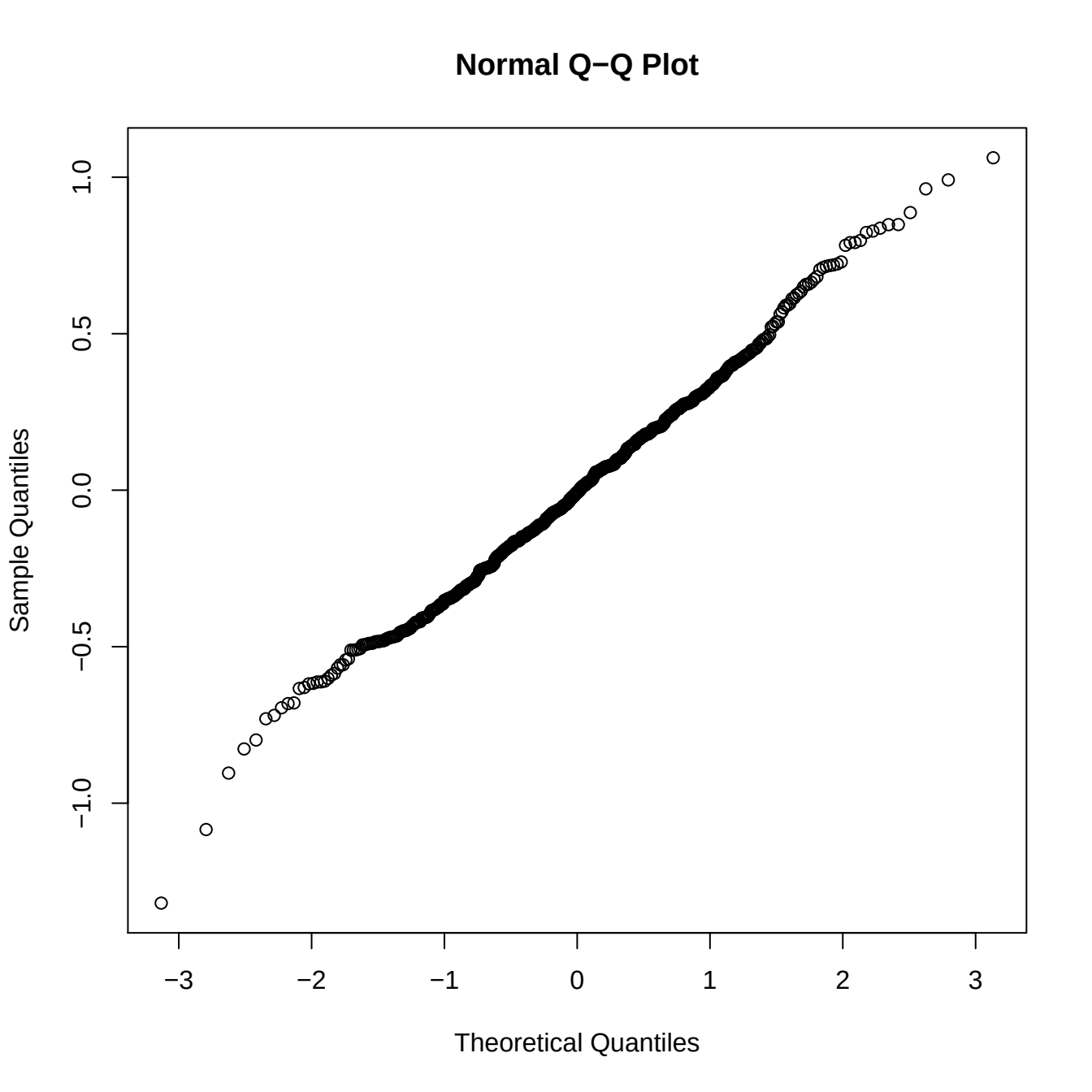

sim_d13C
−12.4
−12.6
−12.8
−13.0
−13.2
−13.4
−13.6
−13.8
dry.A10
dry.RIL_036
wet.RIL_089
wet.RIL_128
wet.RIL_176
wet.RIL_218
density_2013.model

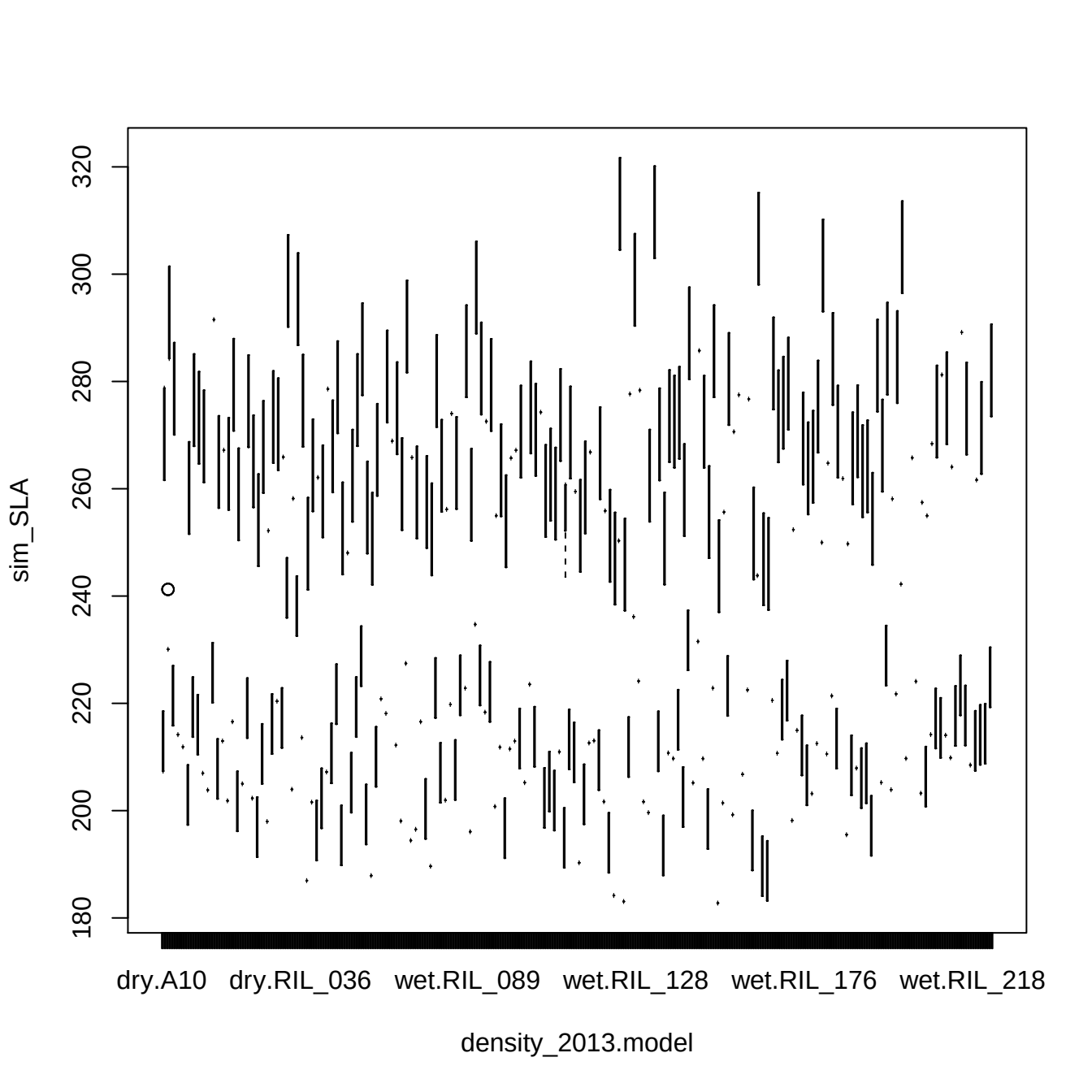

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.5
0.0
−0.5
−3
−2
−1
0
1
2
3

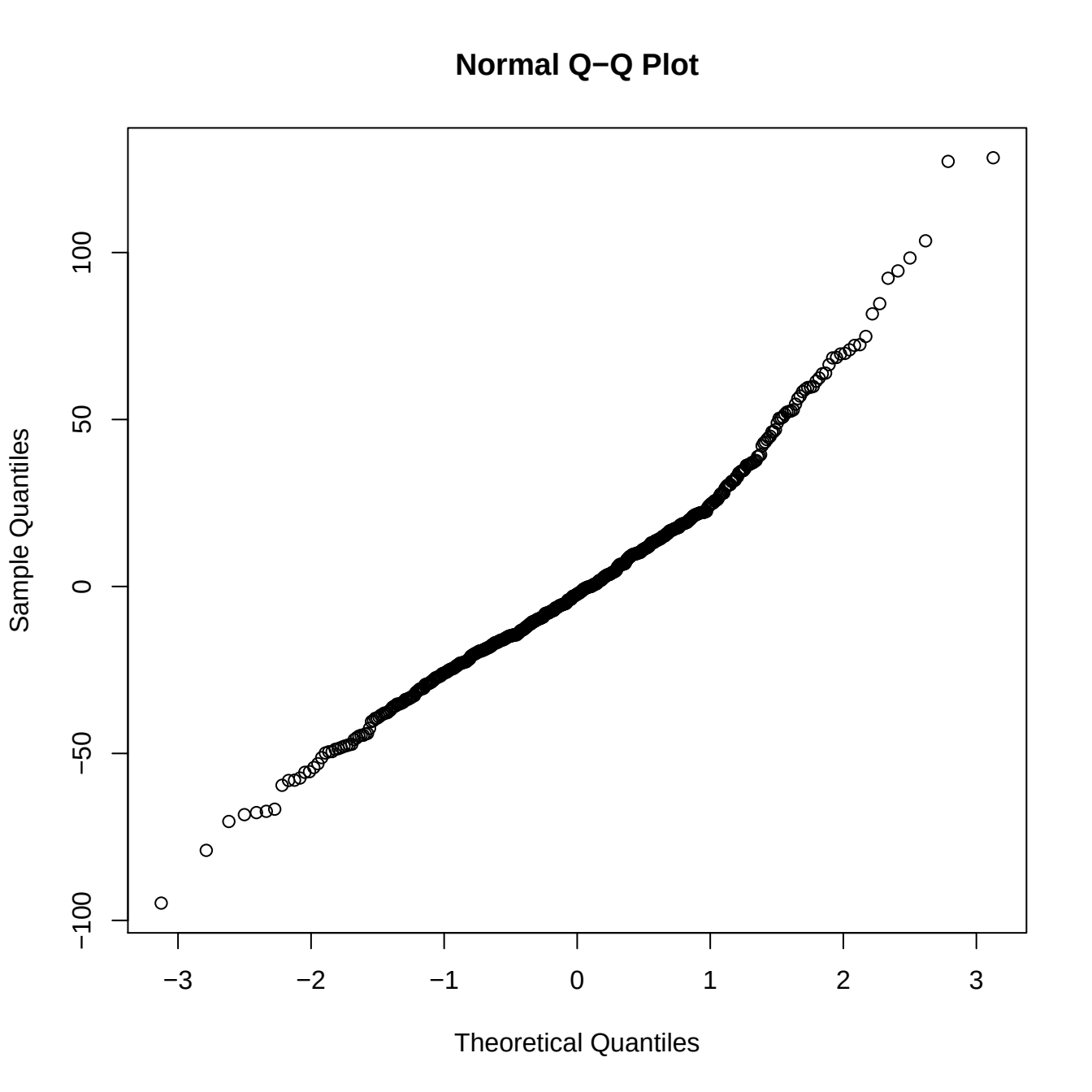

sim_gC.m2
18
20
22
24
26
dry.A10
dry.RIL_036
wet.RIL_089
wet.RIL_128
wet.RIL_176
wet.RIL_218
density_2013.model

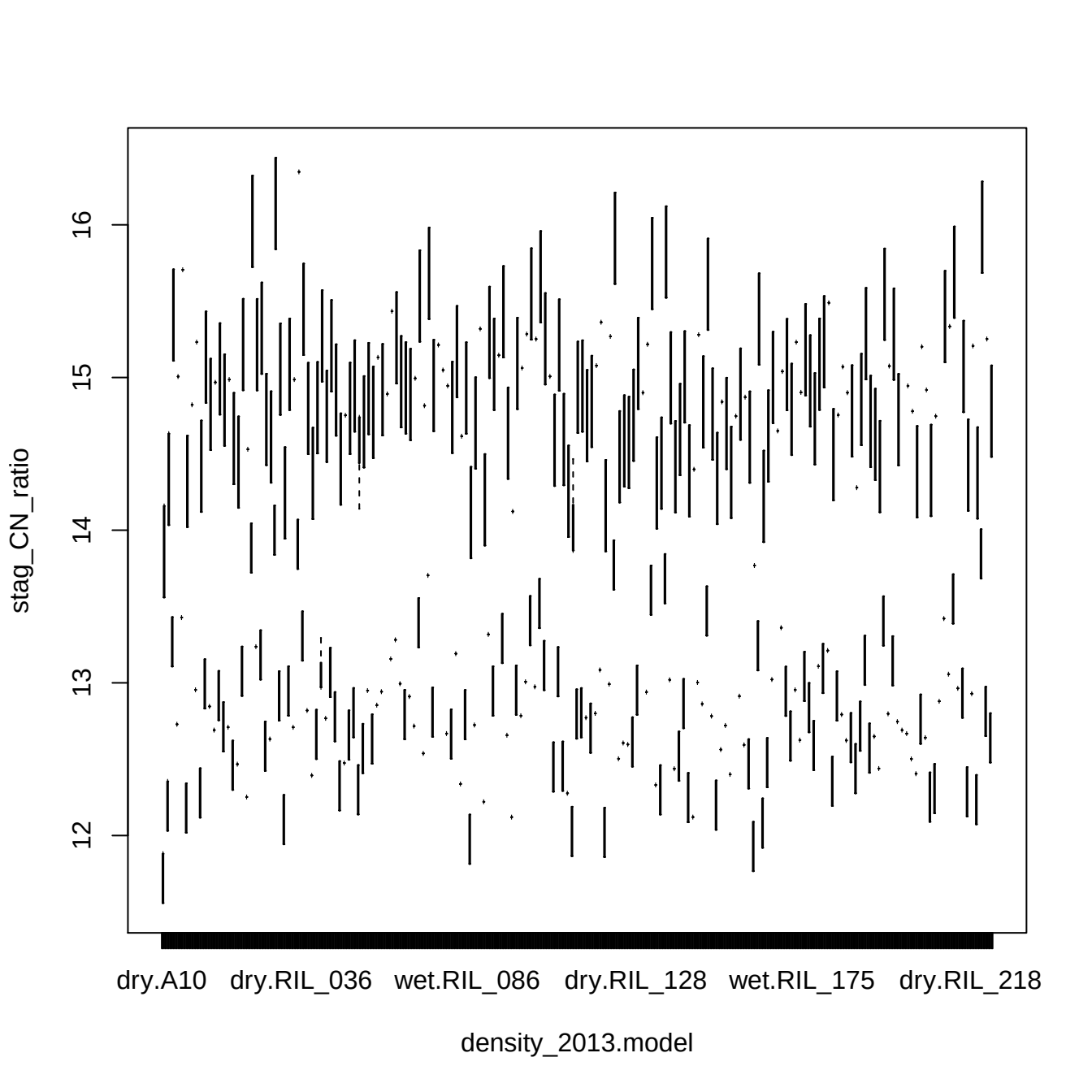

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
10
5
0
−5
−10
−15
−3
−2
−1
0
1
2
3

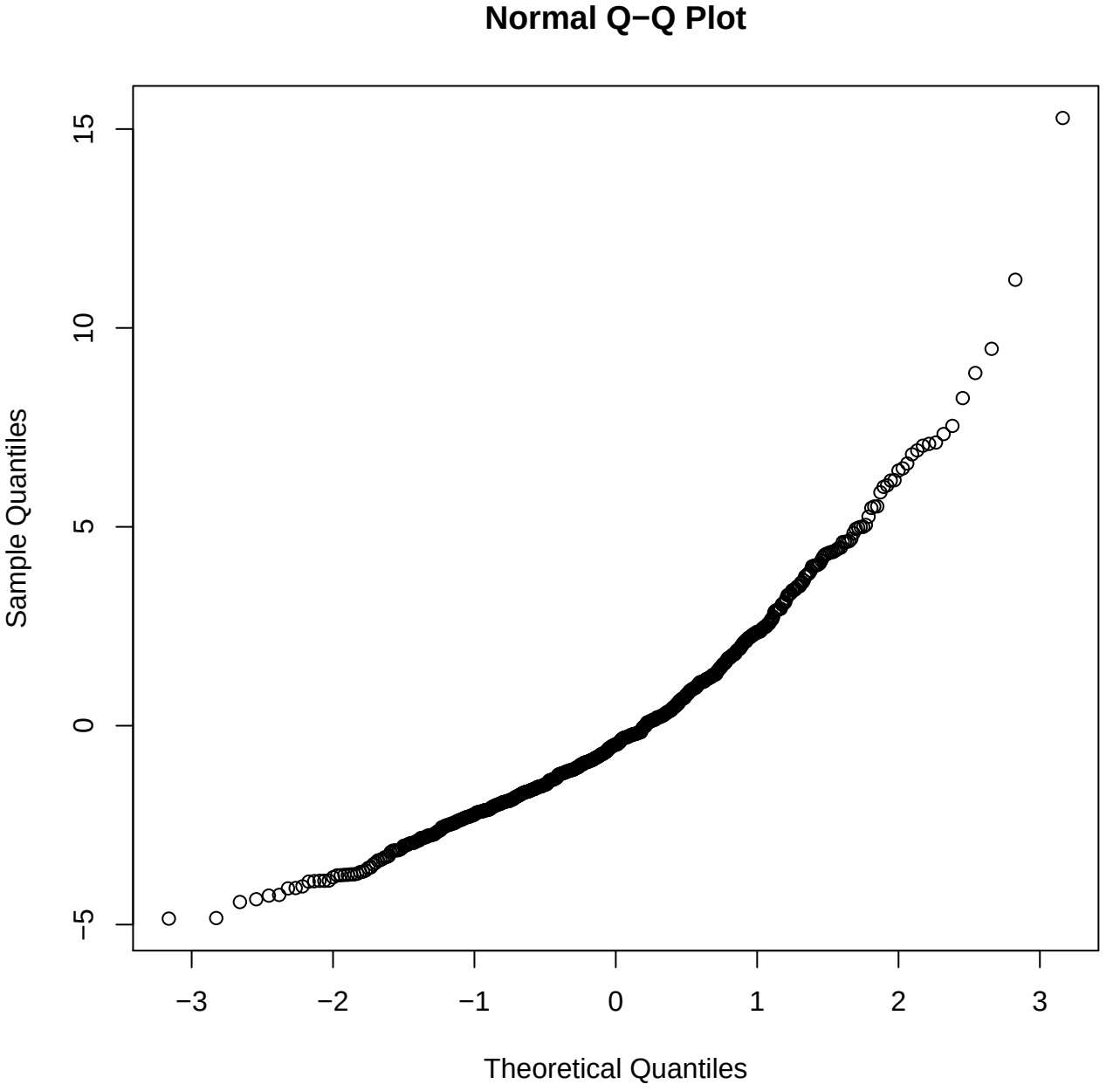

sim_gN.m2
1.2
1.4
1.6
1.8
2.0
2.2
dry.A10
dry.RIL_036
wet.RIL_089
wet.RIL_128
wet.RIL_176
wet.RIL_218
density_2013.model

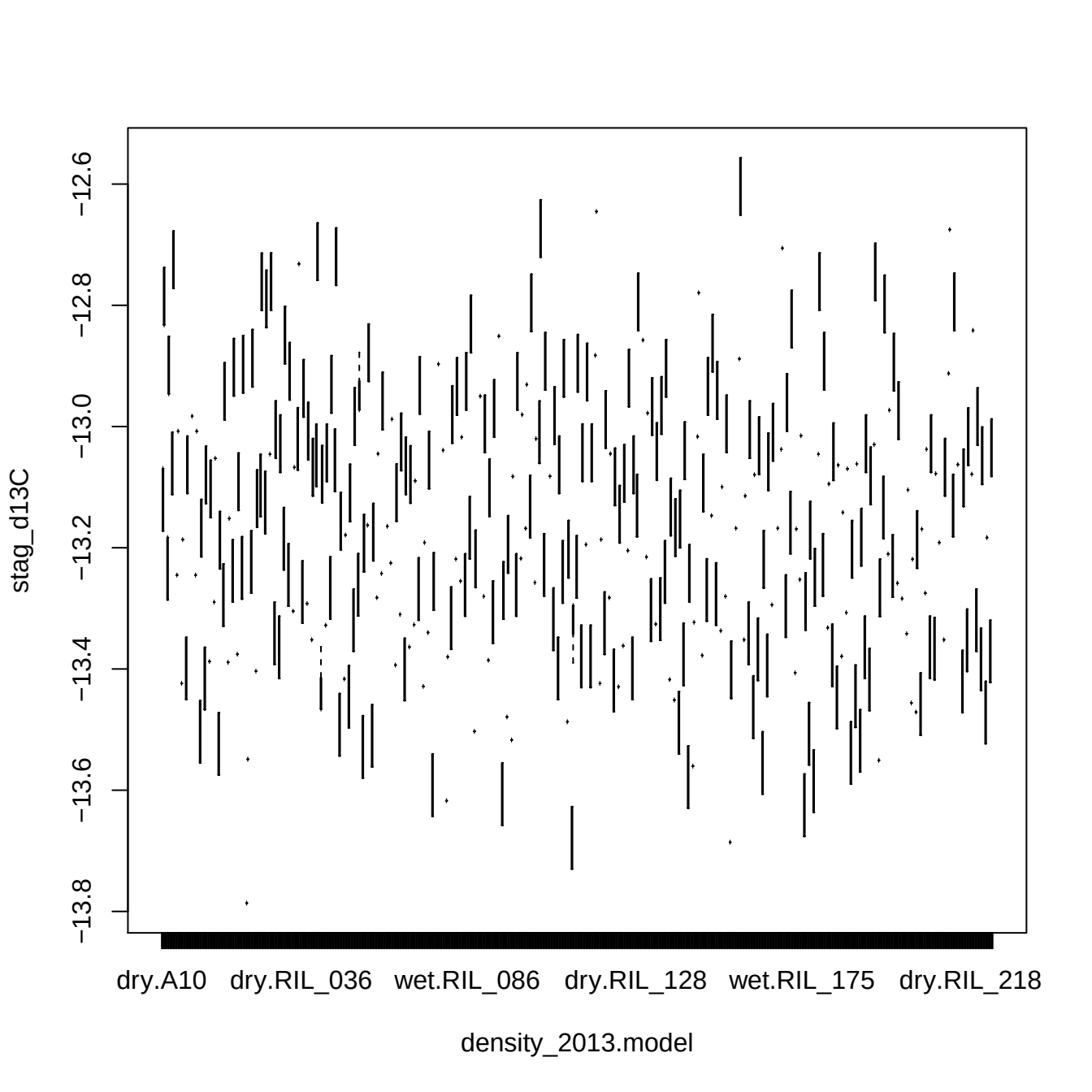

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
1.0
0.5
0.0
−0.5
−1.0
−3
−2
−1
0
1
2
3

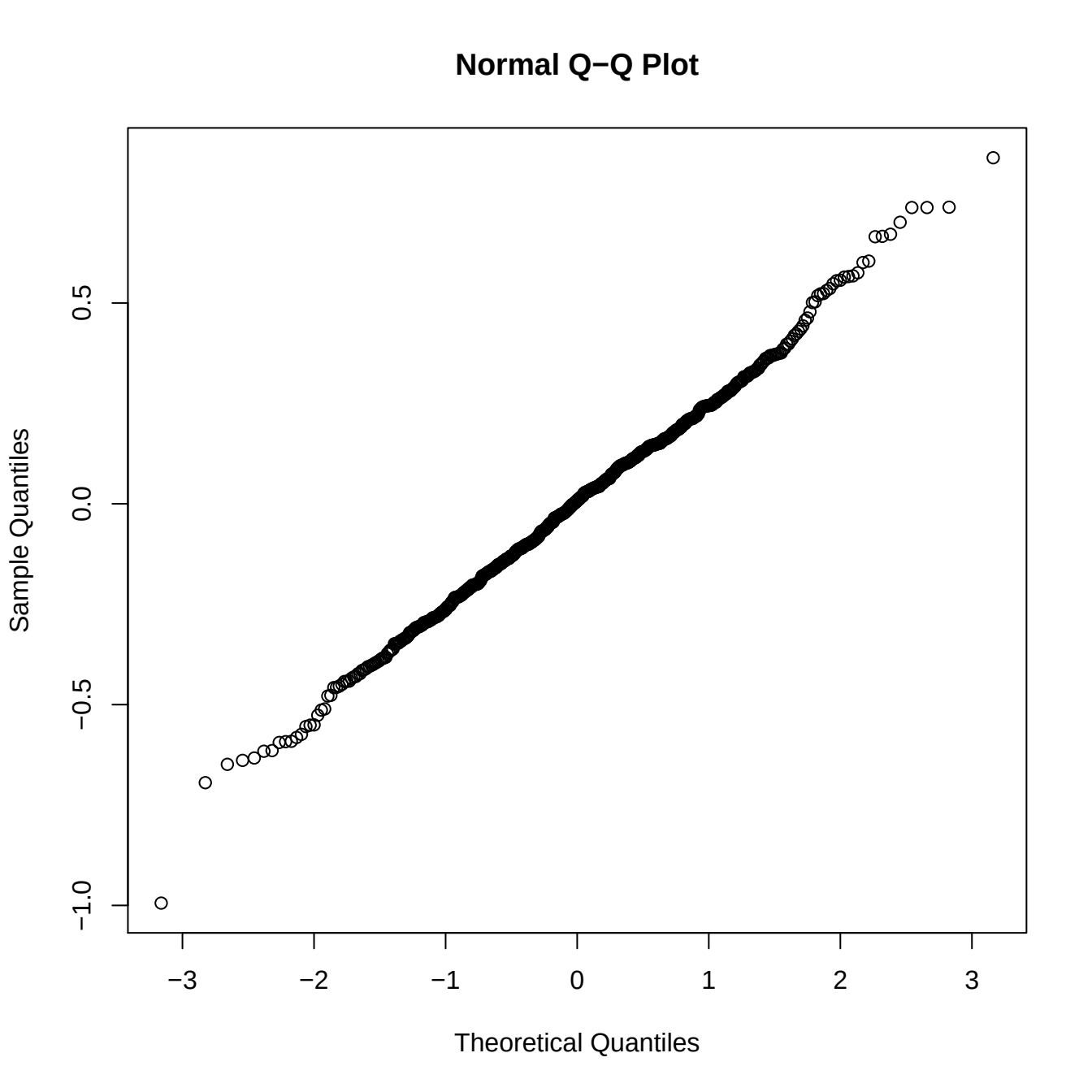

sim_SLA
180
200
220
240
260
280
300
320
dry.A10
dry.RIL_036
wet.RIL_089
wet.RIL_128
wet.RIL_176
wet.RIL_218
density_2013.model

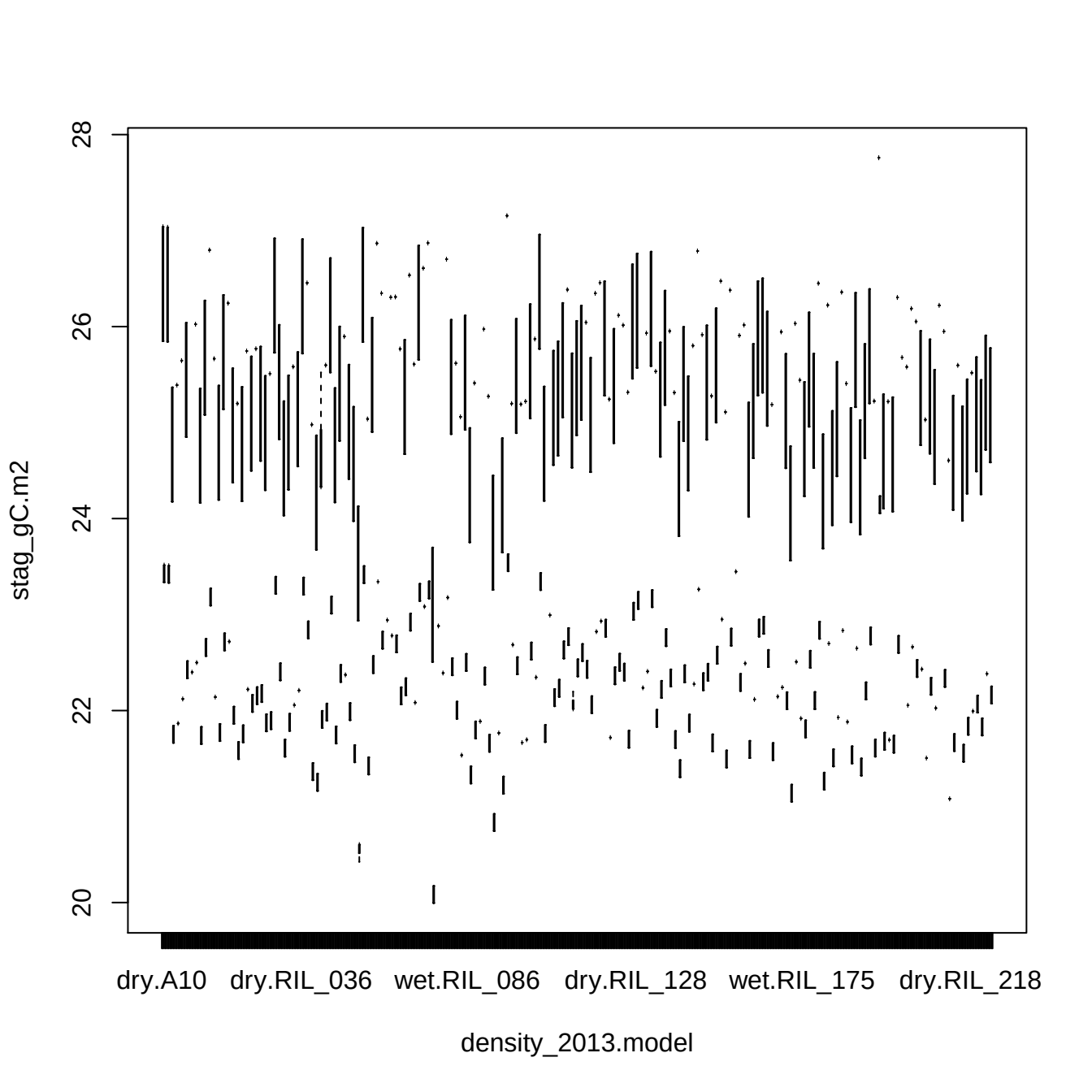

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−100
−50
0
50
100
−3
−2
−1
0
1
2
3

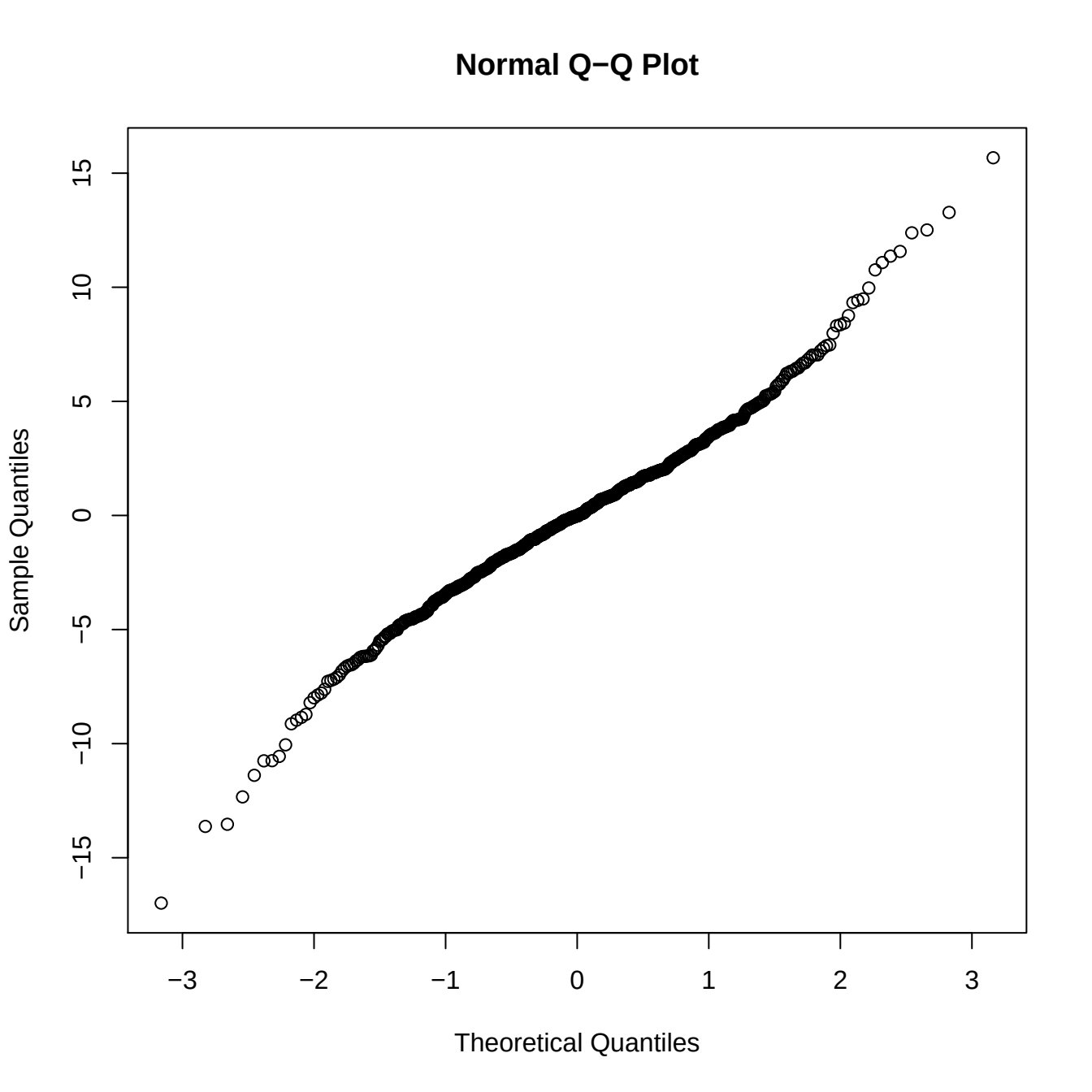

stag_CN_ratio
12
13
14
15
16
dry.A10
dry.RIL_036
wet.RIL_086
dry.RIL_128
wet.RIL_175
dry.RIL_218
density_2013.model

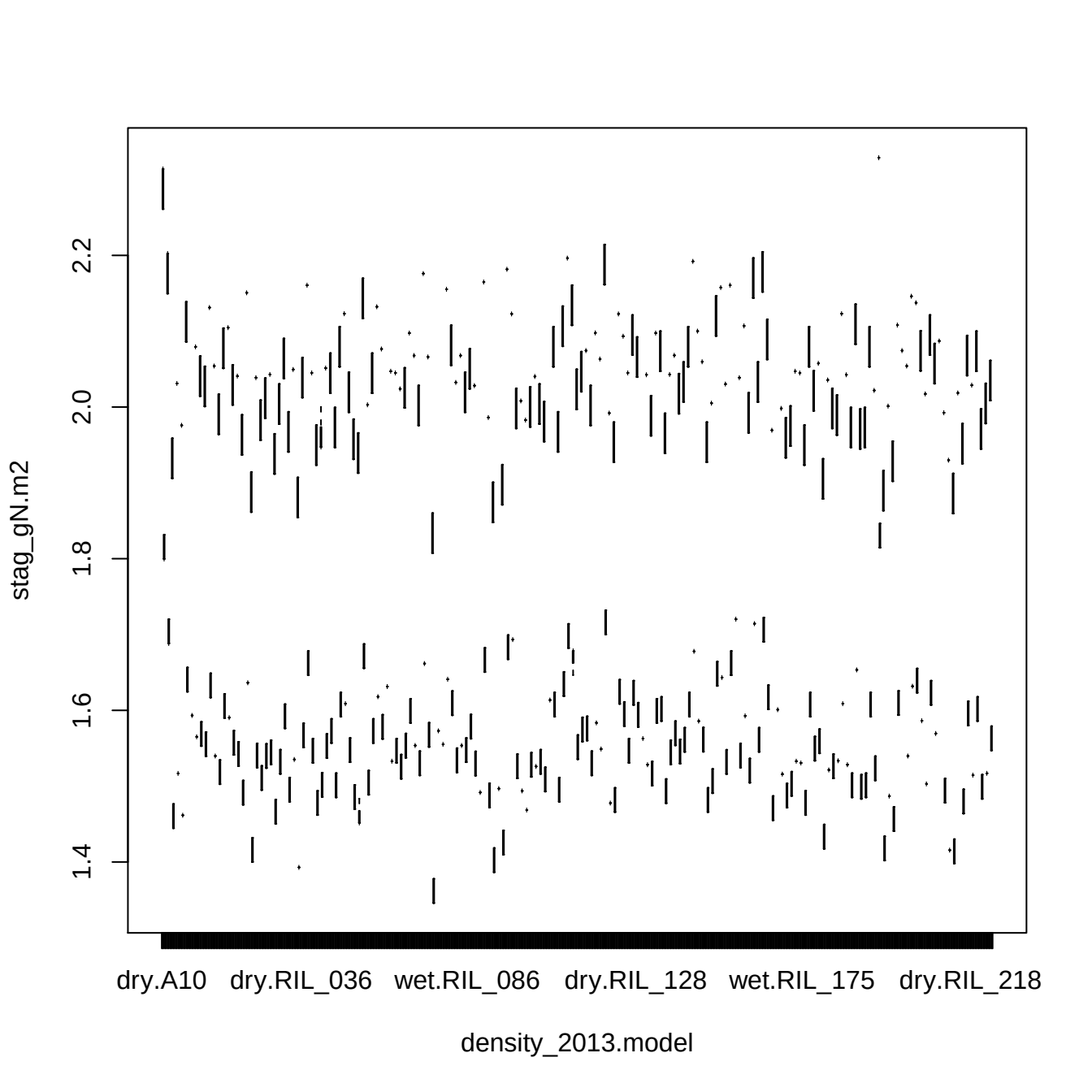

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
15
10
5
0
−5
−3
−2
−1
0
1
2
3

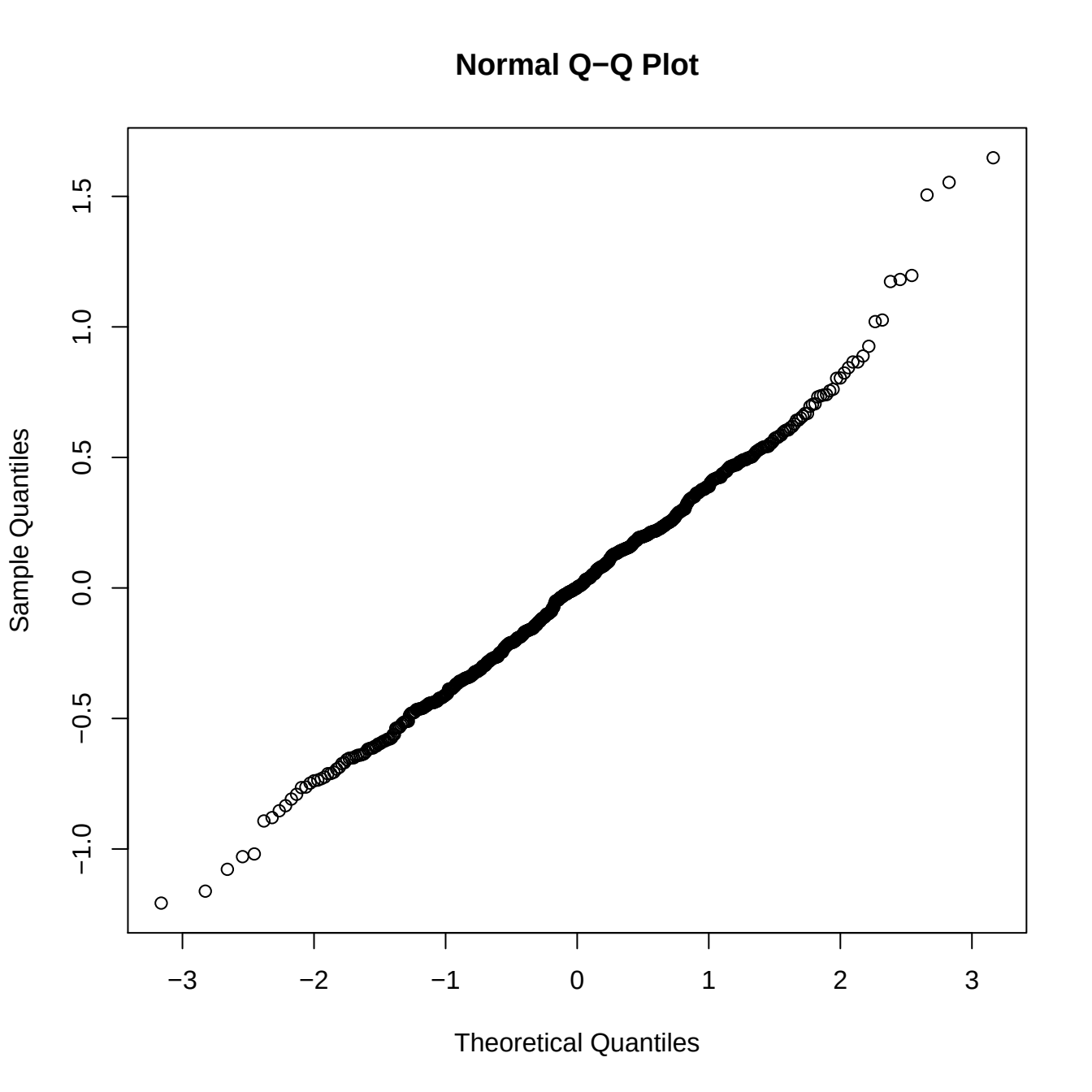

stag_d13C
−12.6
−12.8
−13.0
−13.2
−13.4
−13.6
−13.8
dry.A10
dry.RIL_036
wet.RIL_086
dry.RIL_128
wet.RIL_175
dry.RIL_218
density_2013.model

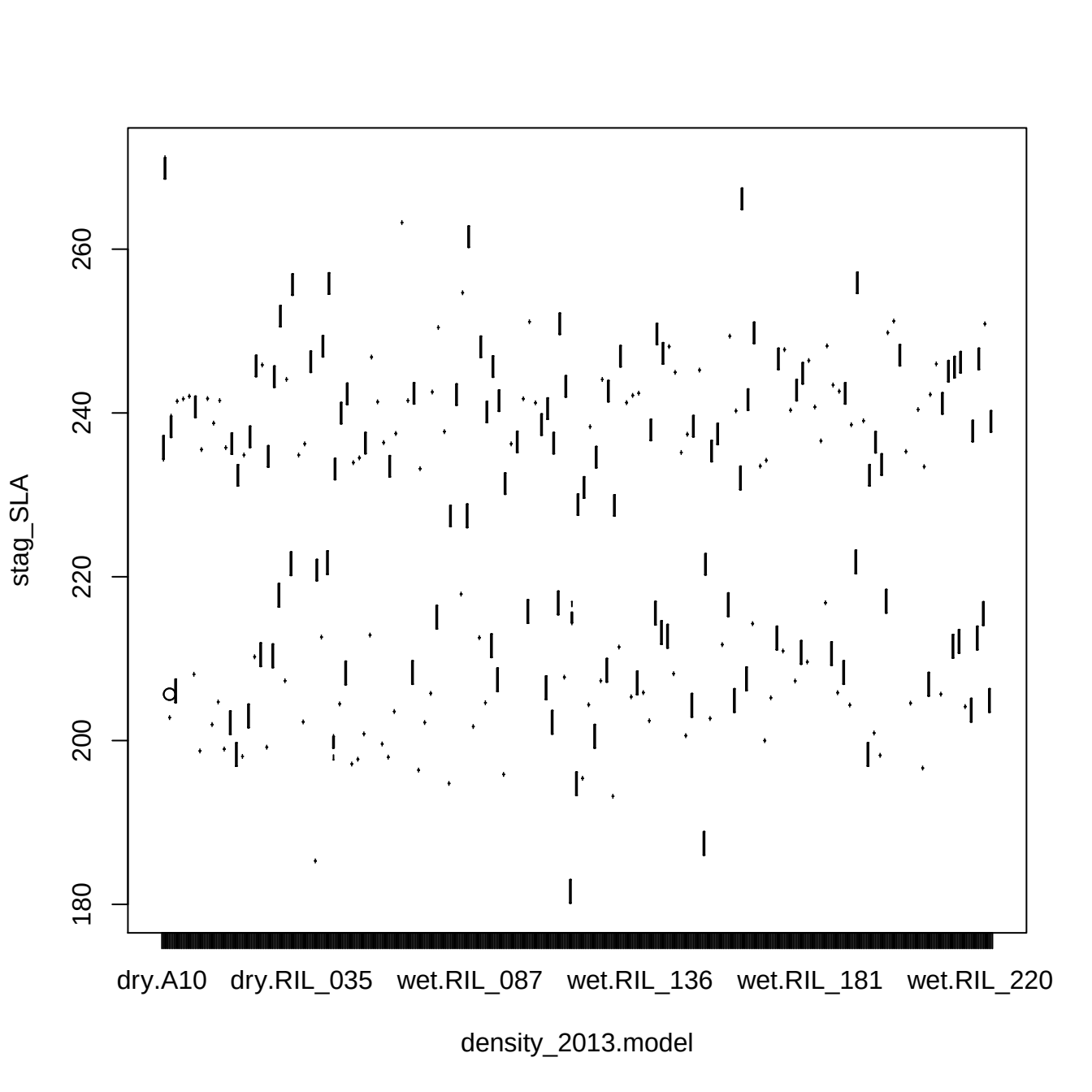

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−1.0
−0.5
0.0
0.5
−3
−2
−1
0
1
2
3

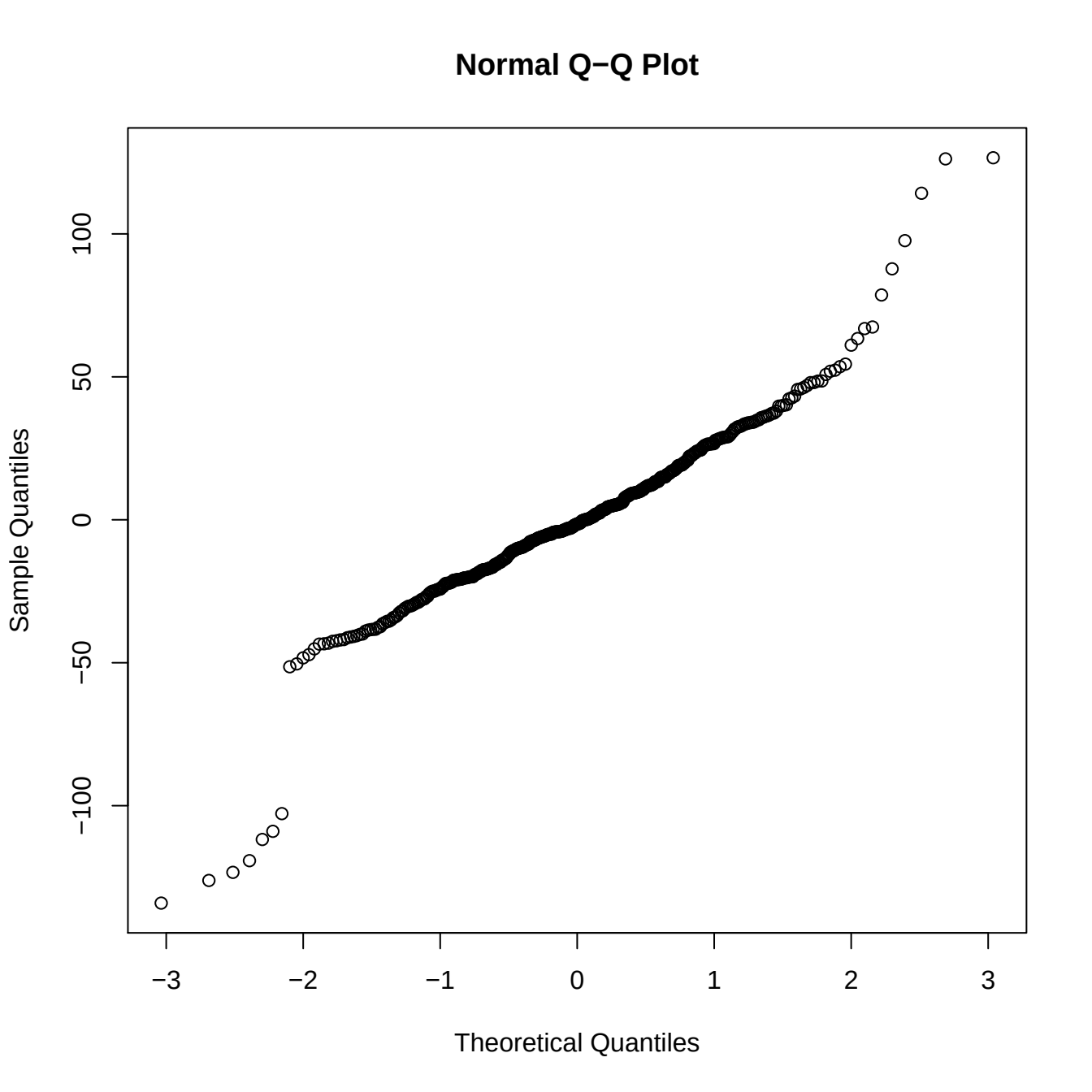

28
26
24
22
20
stag_gC.m2
dry.A10
dry.RIL_036
wet.RIL_086
dry.RIL_128
wet.RIL_175
dry.RIL_218
density_2013.model

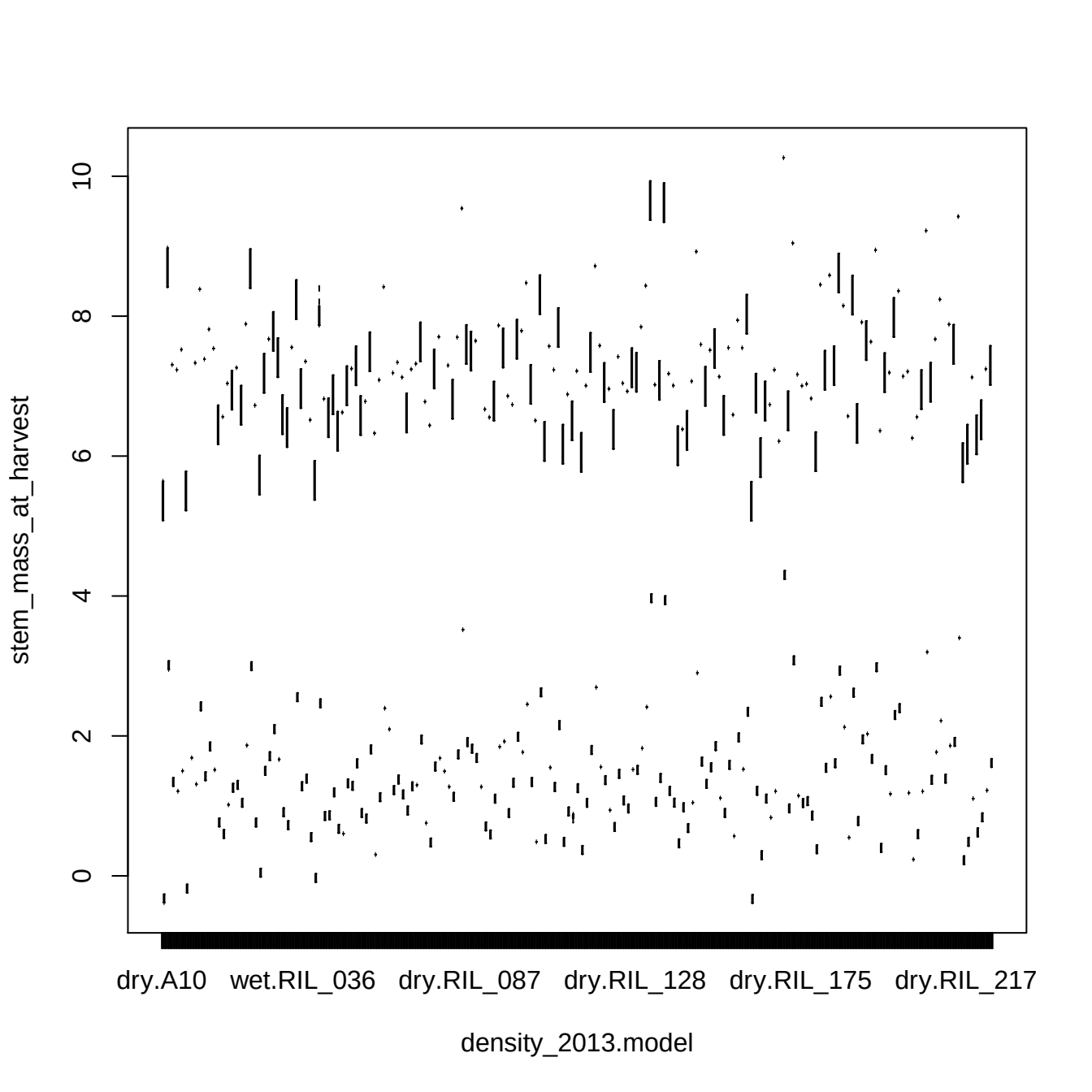

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
15
10
5
0
−5
−10
−15
−3
−2
−1
0
1
2
3

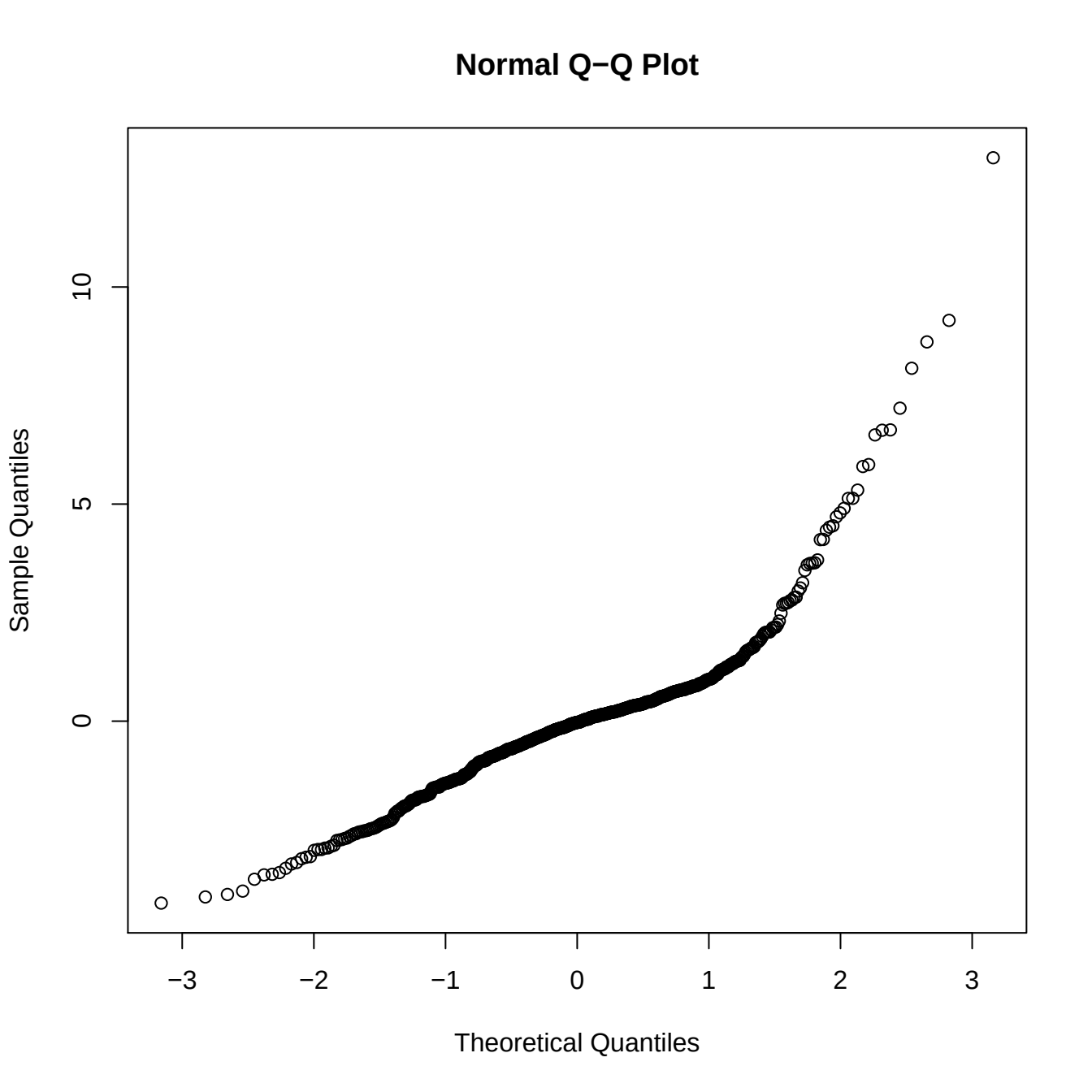

stag_gN.m2
2.2
2.0
1.8
1.6
1.4
dry.A10
dry.RIL_036
wet.RIL_086
dry.RIL_128
wet.RIL_175
dry.RIL_218
density_2013.model

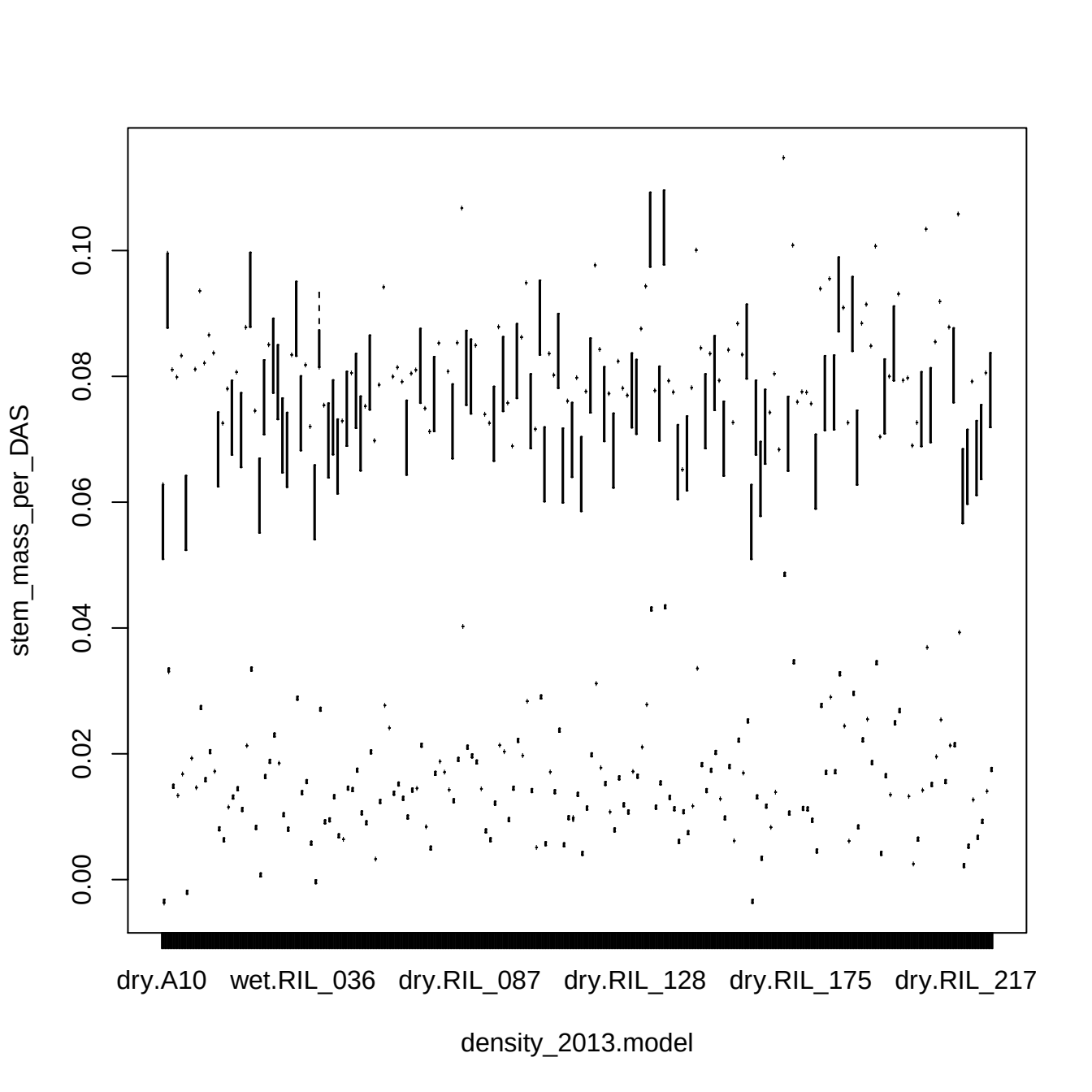

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−1.0
−0.5
0.0
0.5
1.0
1.5
−3
−2
−1
0
1
2
3

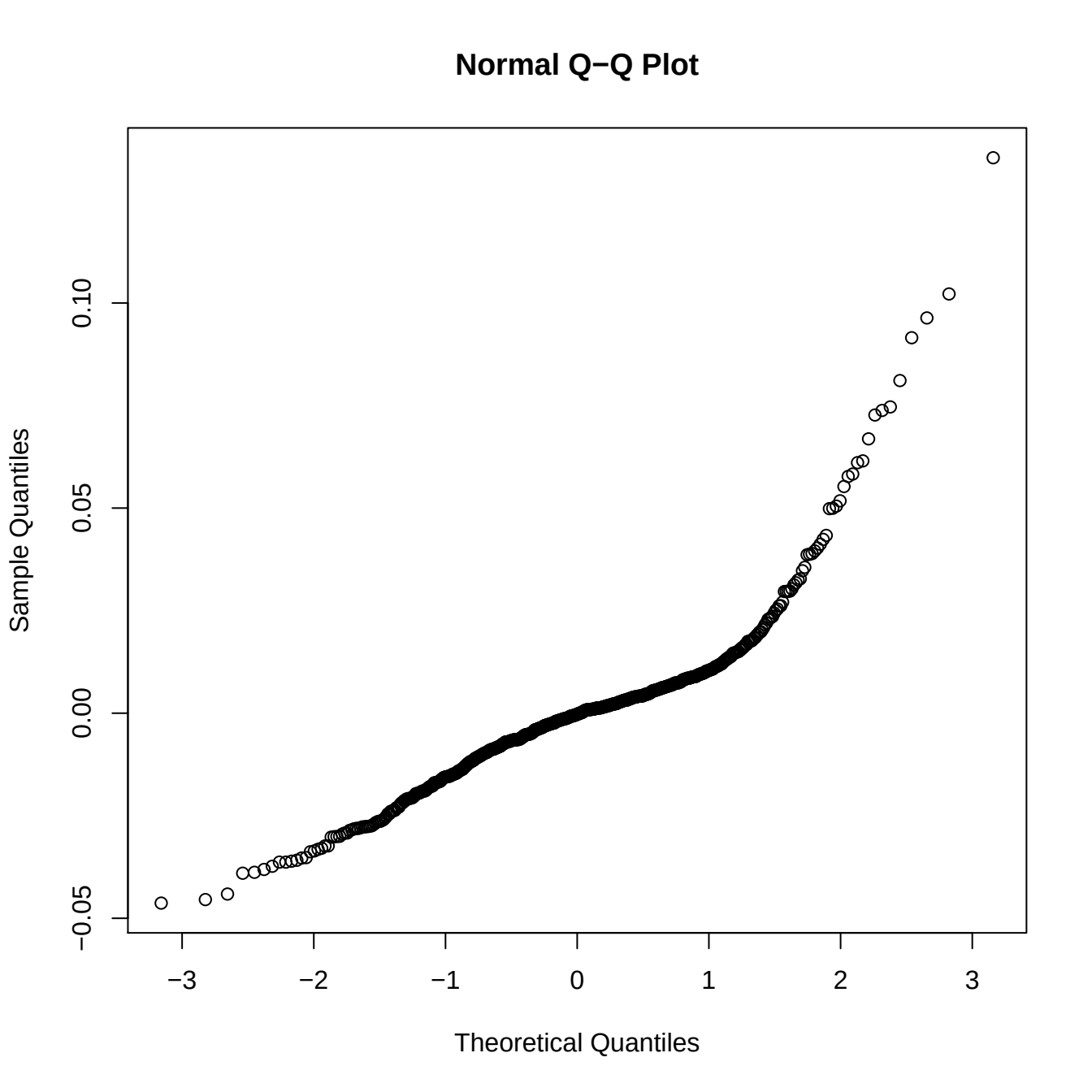

stag_SLA
180
200
220
240
260
dry.A10
dry.RIL_035
wet.RIL_087
wet.RIL_136
wet.RIL_181
wet.RIL_220
density_2013.model

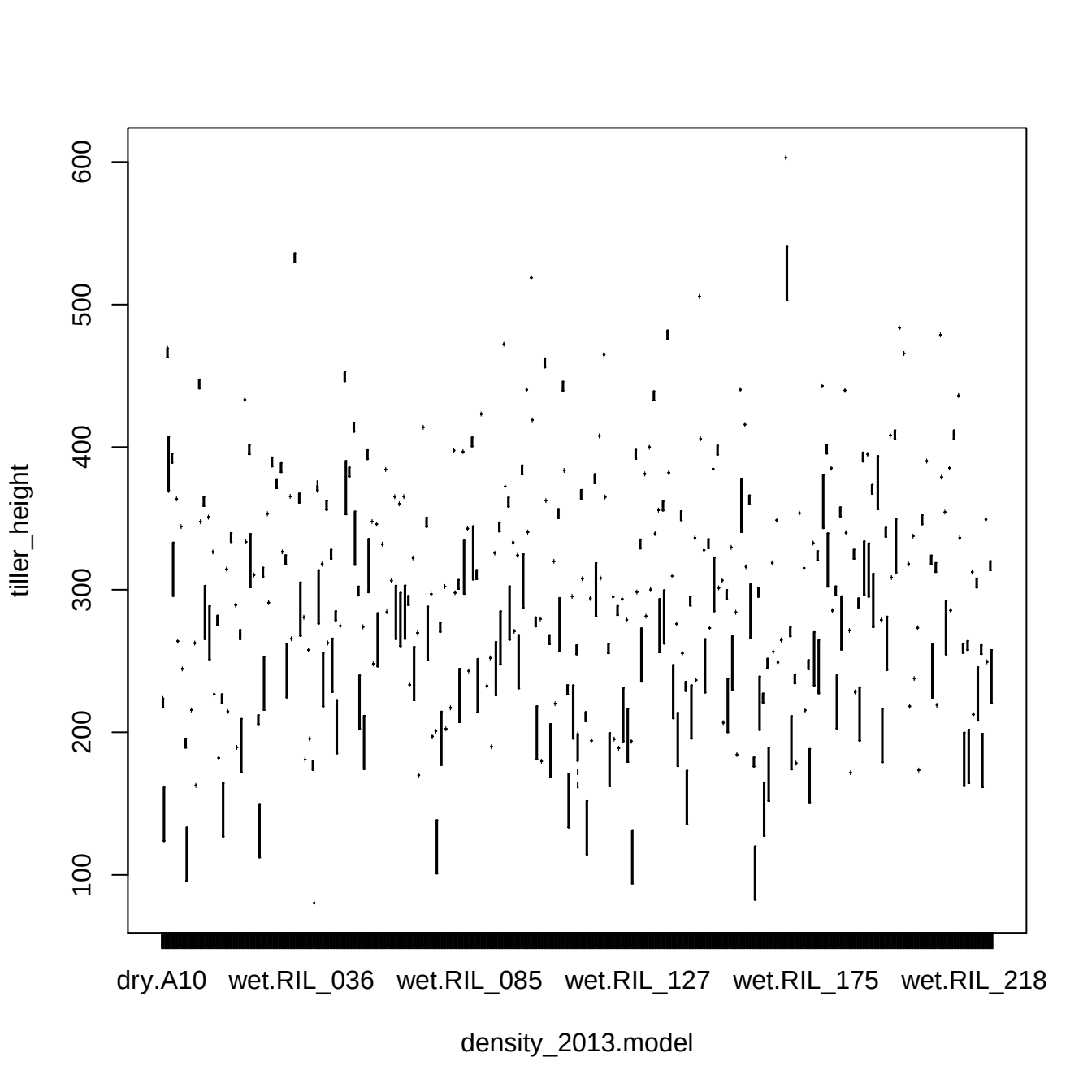

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
100
50
0
−50
−100
−3
−2
−1
0
1
2
3

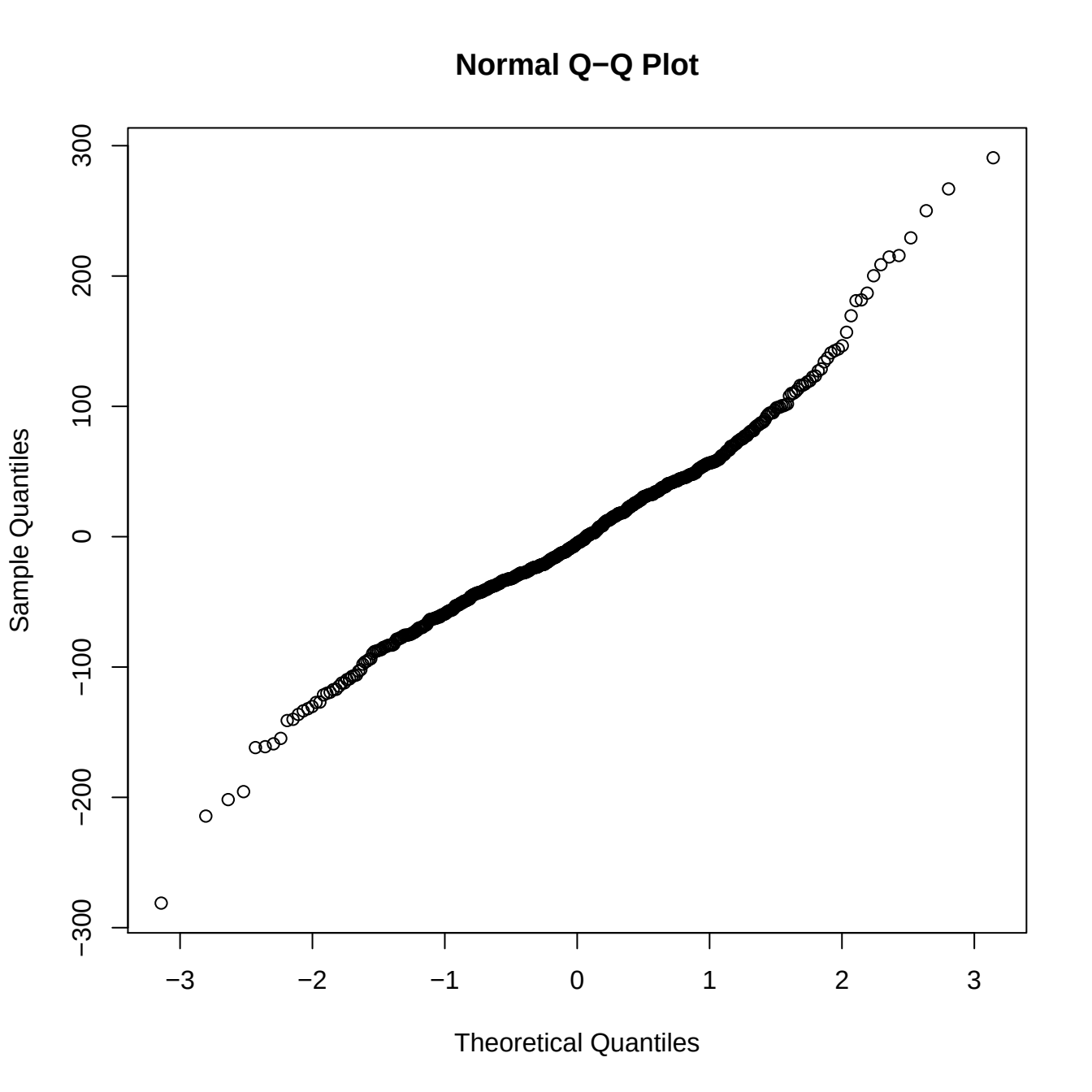

stem_mass_at_harvest
0
2
4
6
8
10
dry.A10
wet.RIL_036
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.model

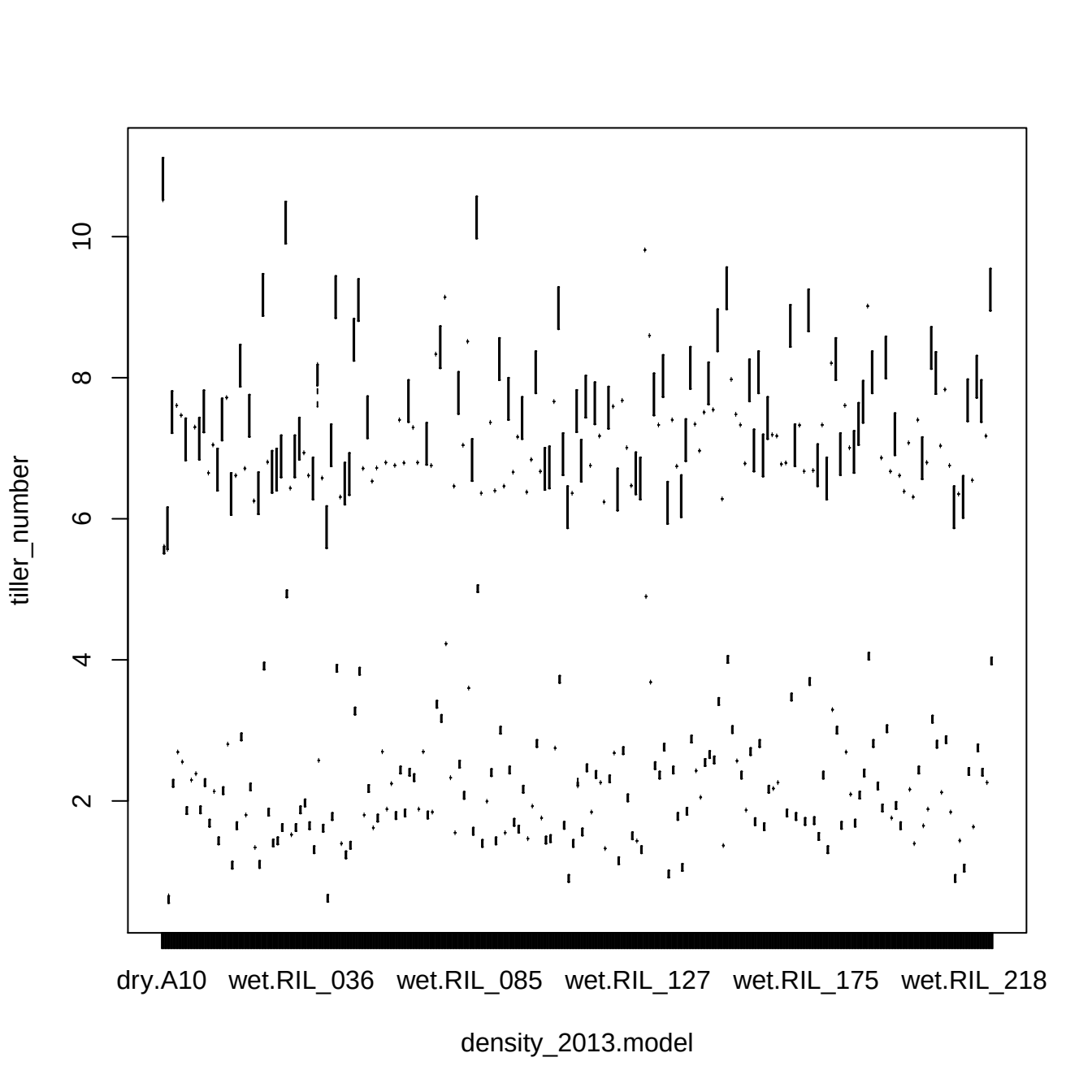

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0
5
10
−3
−2
−1
0
1
2
3

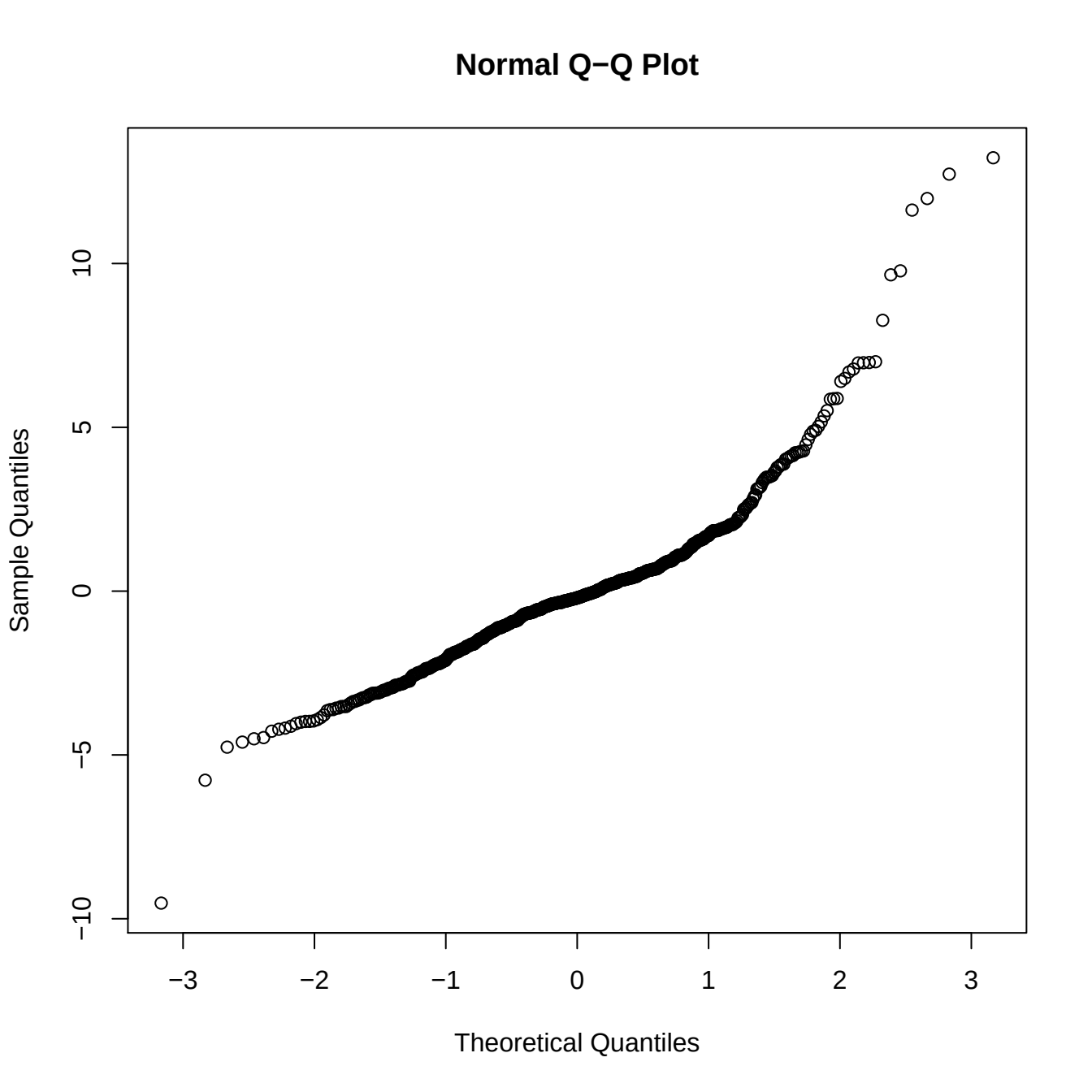

stem_mass_per_DAS
0.00
0.02
0.04
0.06
0.08
0.10
dry.A10
wet.RIL_036
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.model

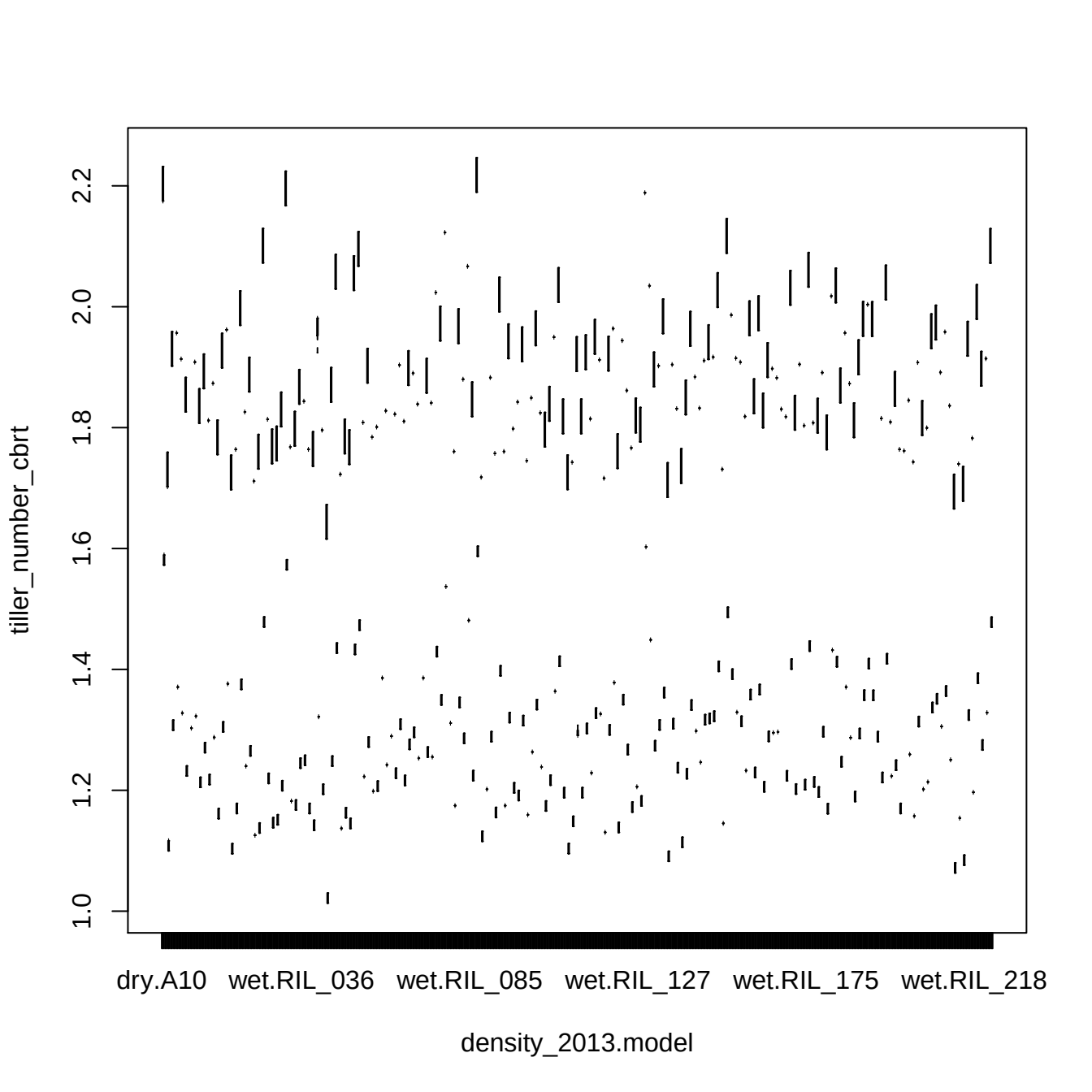

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.10
0.05
0.00
−0.05
−3
−2
−1
0
1
2
3

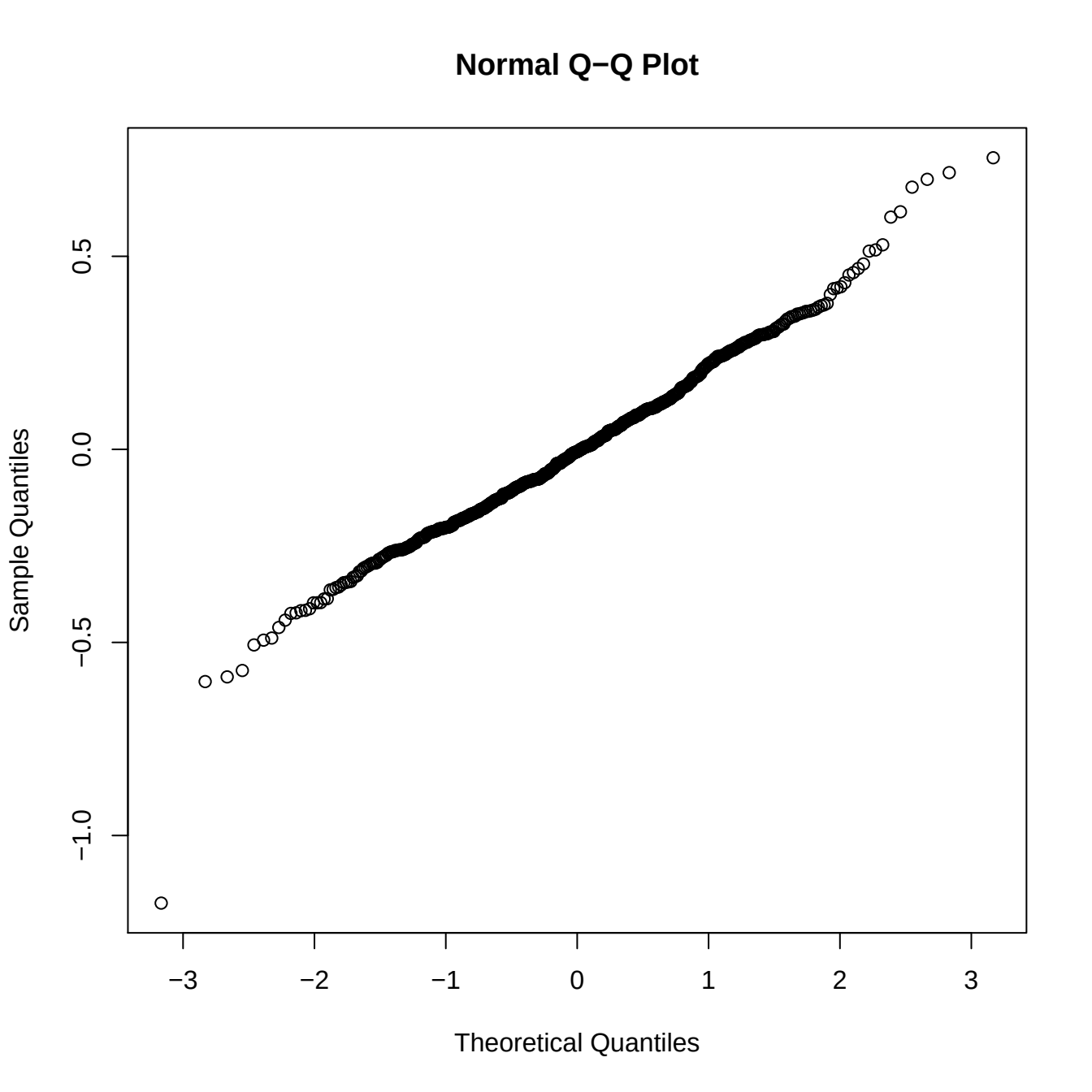

tiller_height
100
200
300
400
500
600
dry.A10
wet.RIL_036
wet.RIL_085
wet.RIL_127
wet.RIL_175
wet.RIL_218
density_2013.model

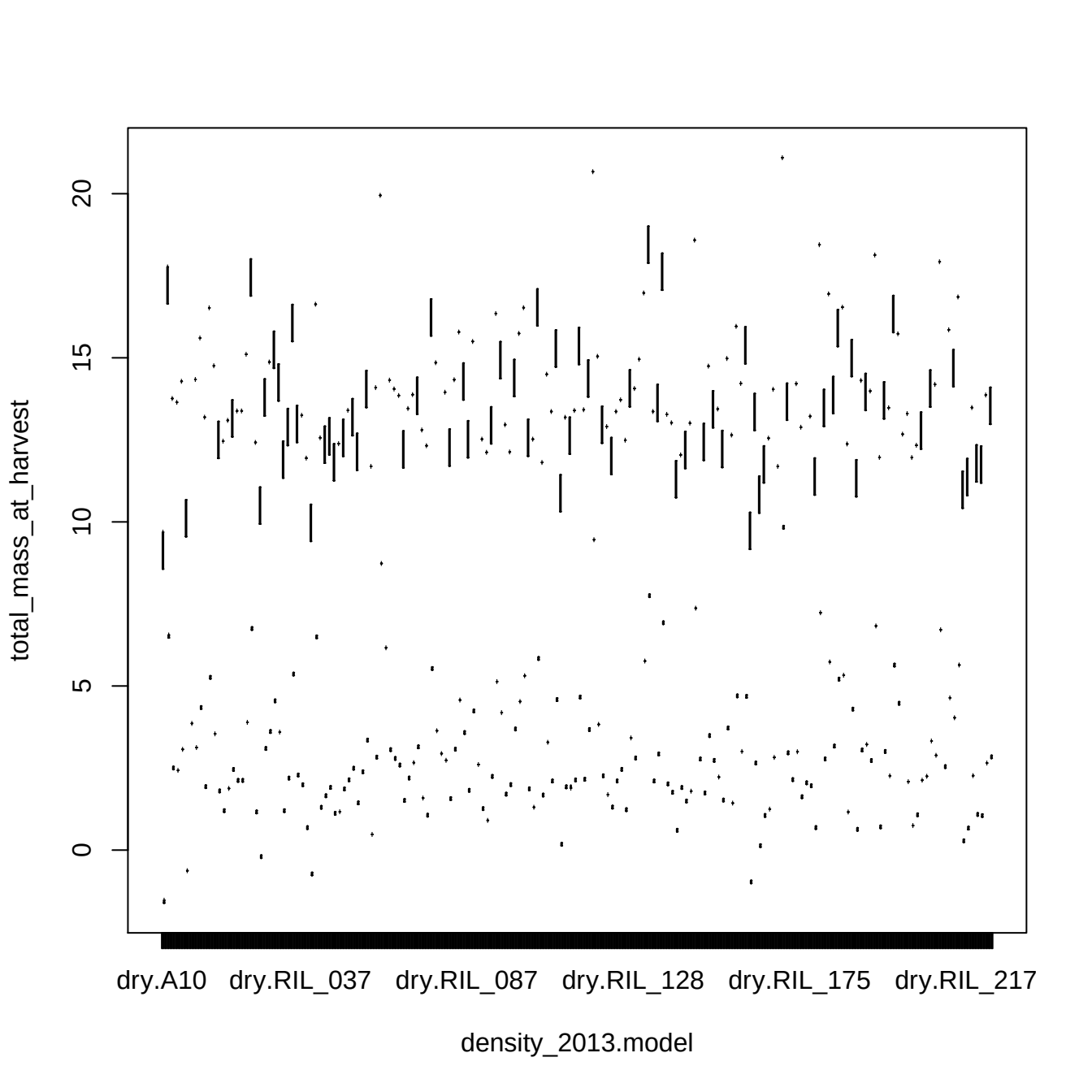

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
300
200
100
0
−100
−200
−300
−3
−2
−1
0
1
2
3

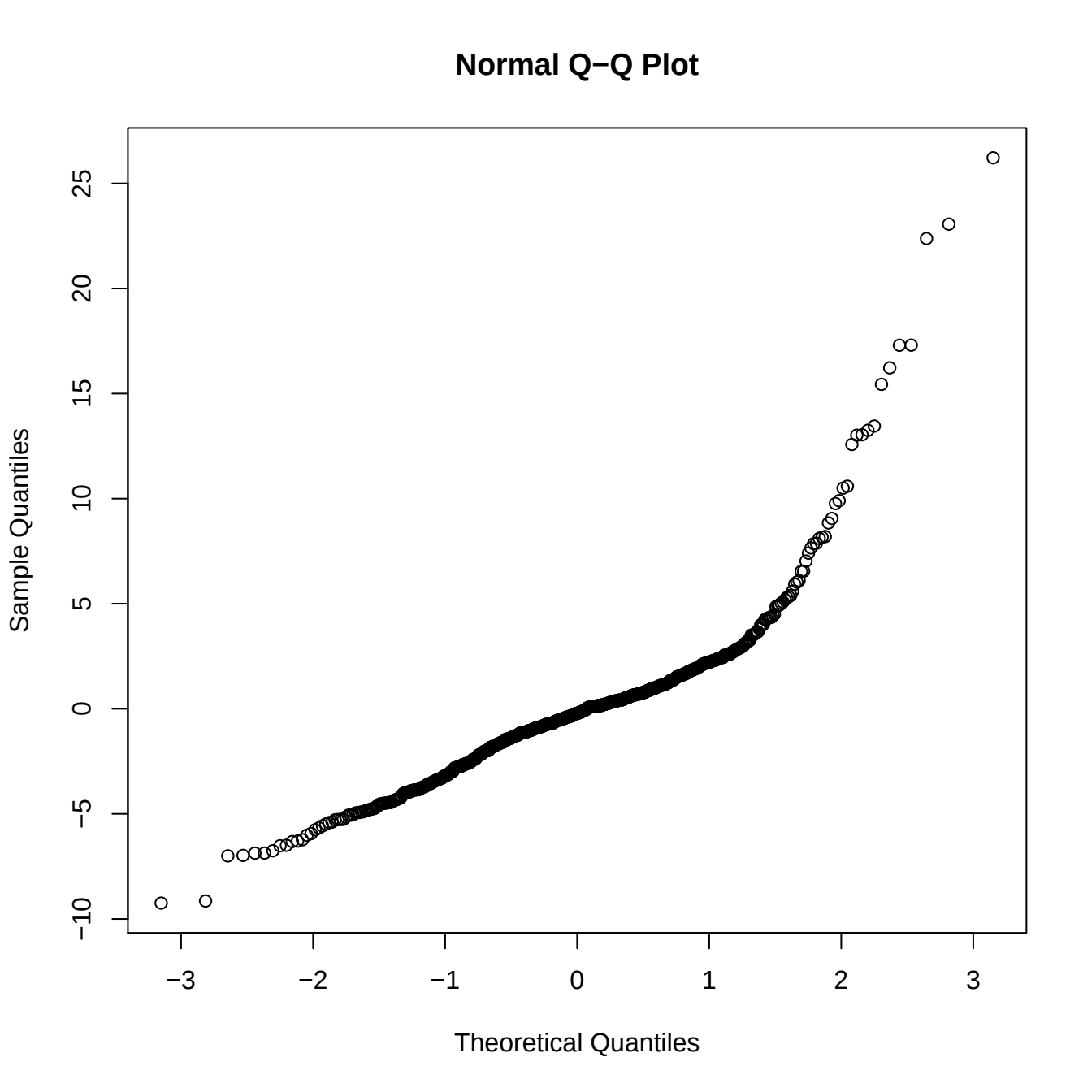

tiller_number
2
4
6
8
10
dry.A10
wet.RIL_036
wet.RIL_085
wet.RIL_127
wet.RIL_175
wet.RIL_218
density_2013.model

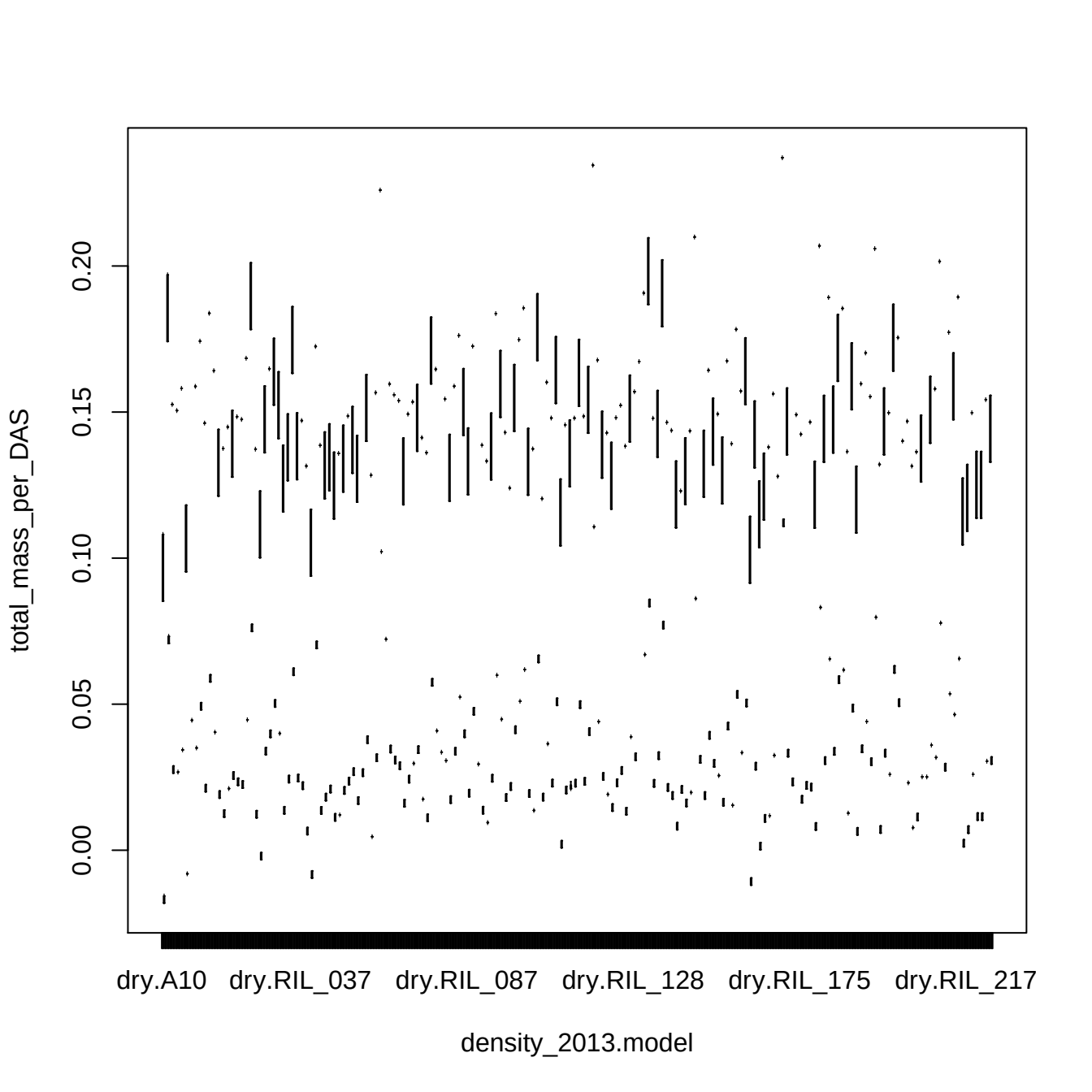

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
−3
−2
−1
0
1
2
3

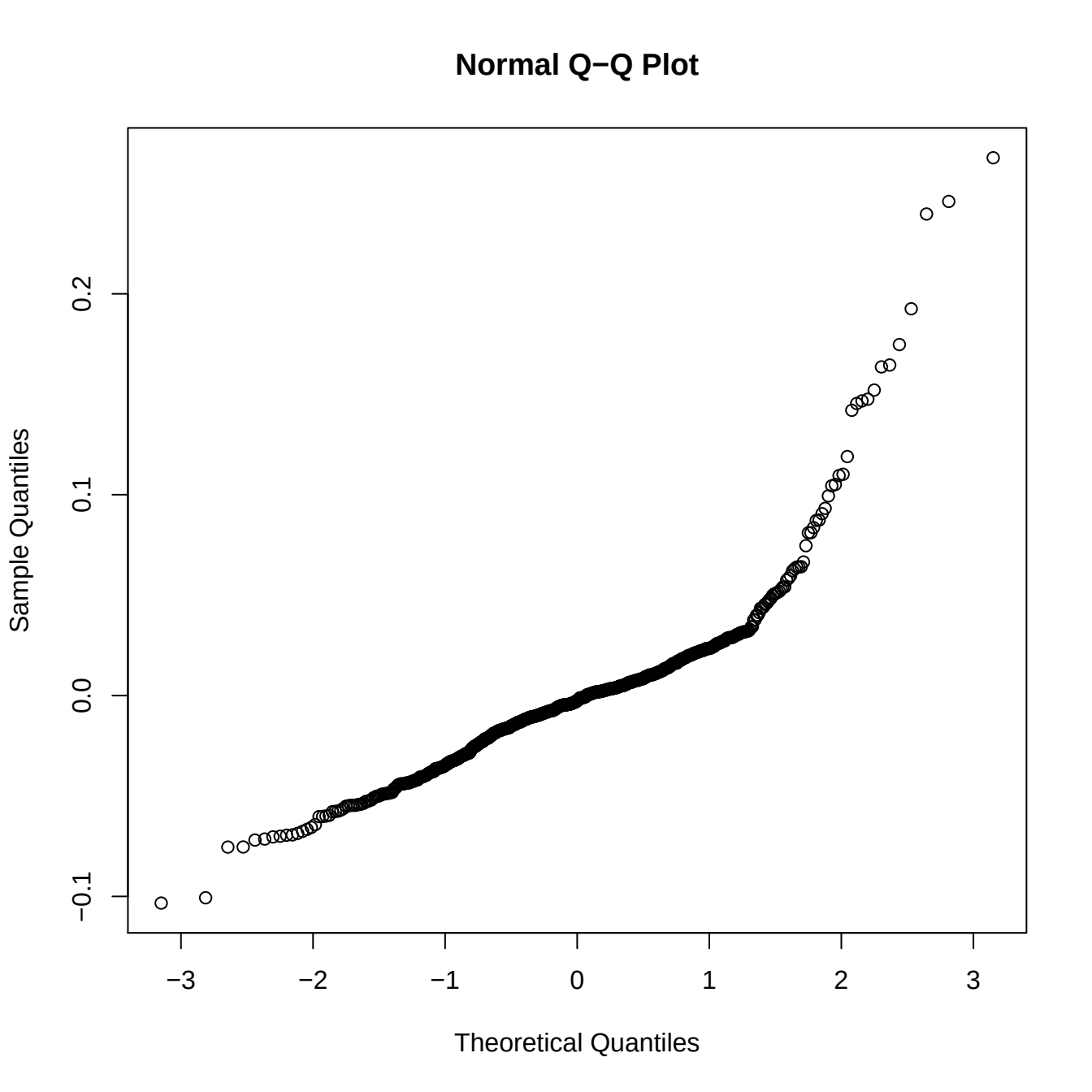

tiller_number_cbrt
1.0
1.2
1.4
1.6
1.8
2.0
2.2
dry.A10
wet.RIL_036
wet.RIL_085
wet.RIL_127
wet.RIL_175
wet.RIL_218
density_2013.model

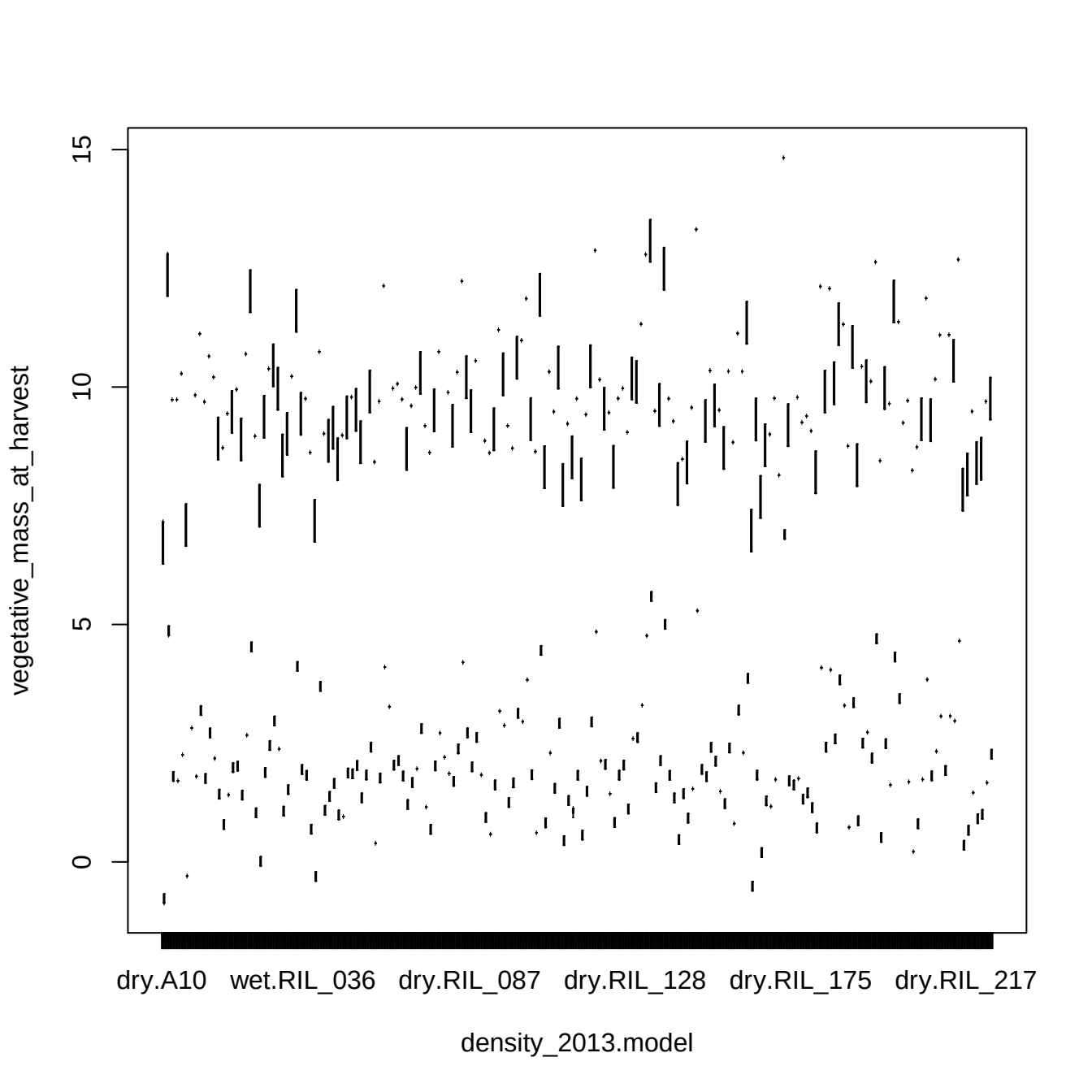

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
0.5
0.0
−0.5
−1.0
−3
−2
−1
0
1
2
3

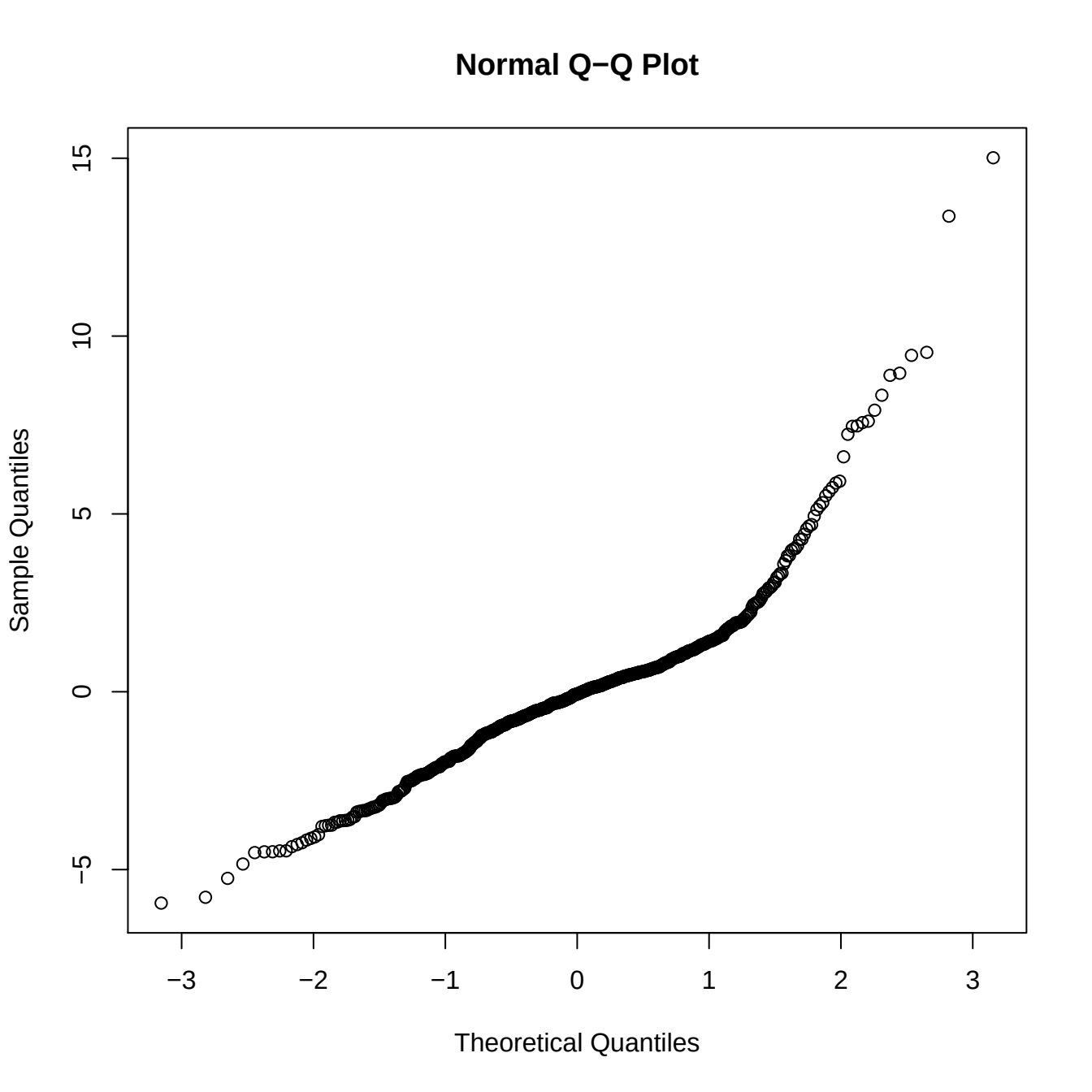

total_mass_at_harvest
0
5
10
15
20
dry.A10
dry.RIL_037
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.model

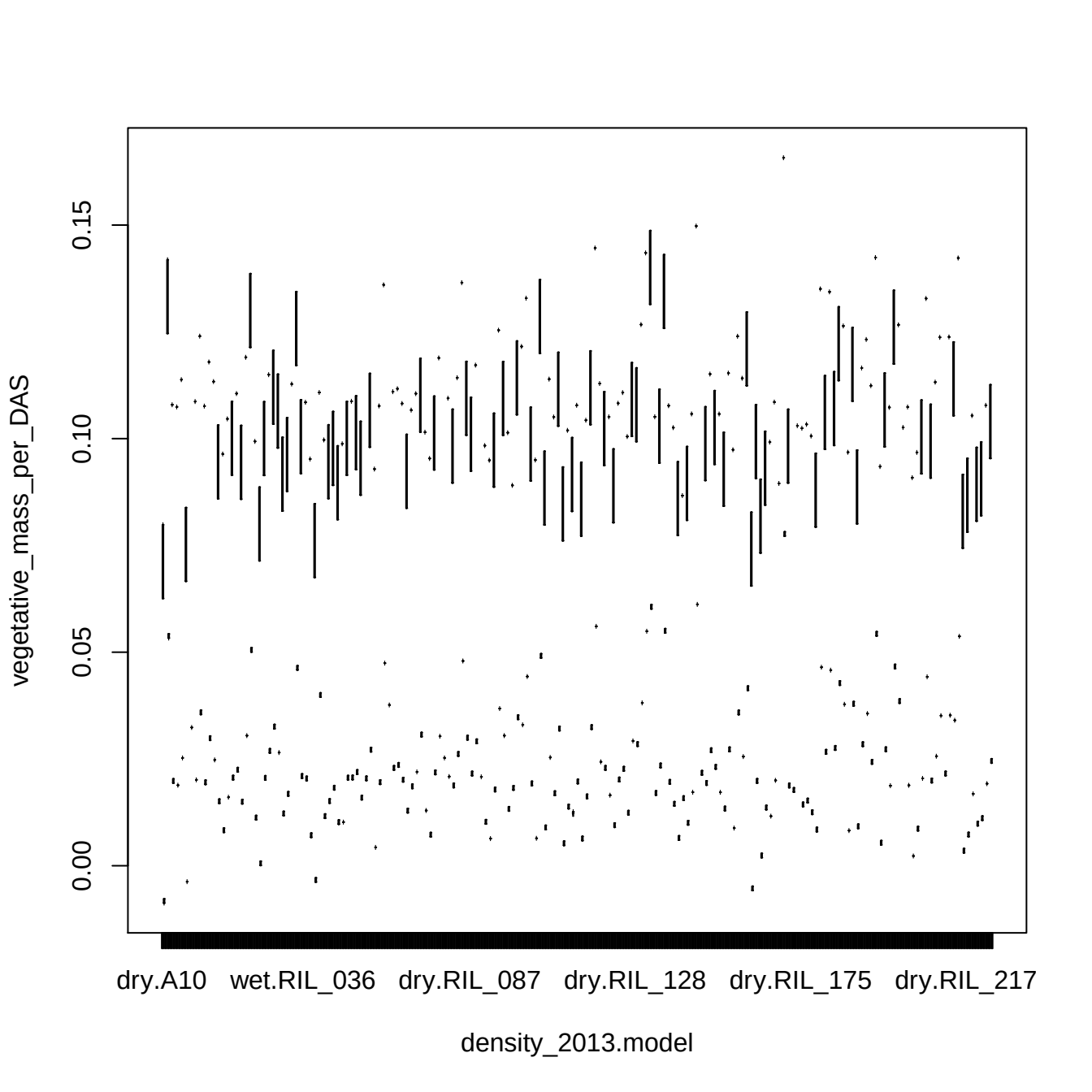

Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
15
20
25
−3
−2
−1
0
1
2
3

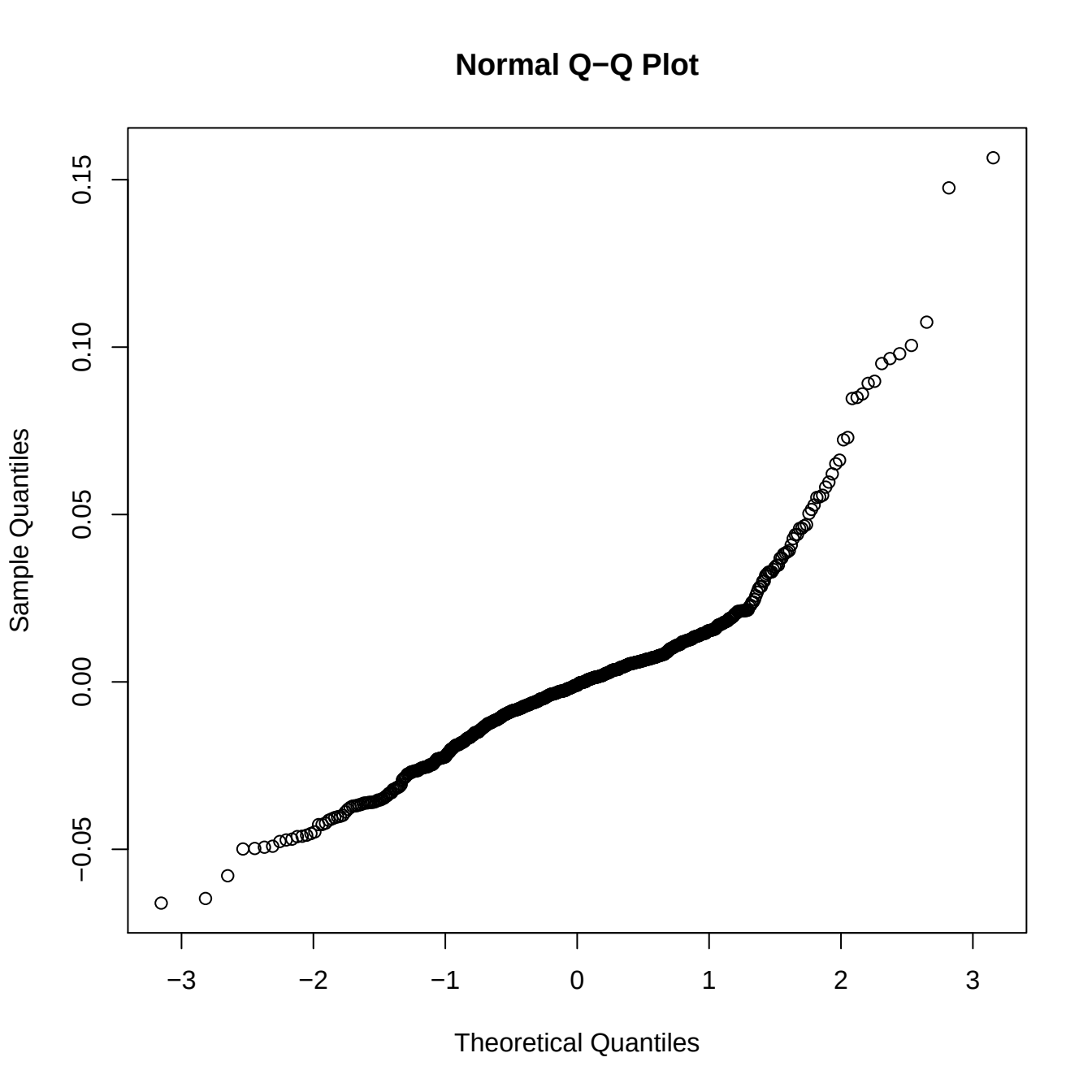

total_mass_per_DAS
0.00
0.05
0.10
0.15
0.20
dry.A10
dry.RIL_037
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.model


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


vegetative_mass_at_harvest
0
5
10
15
dry.A10
wet.RIL_036
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.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
0.00
0.05
0.10
0.15
dry.A10
wet.RIL_036
dry.RIL_087
dry.RIL_128
dry.RIL_175
dry.RIL_217
density_2013.model


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