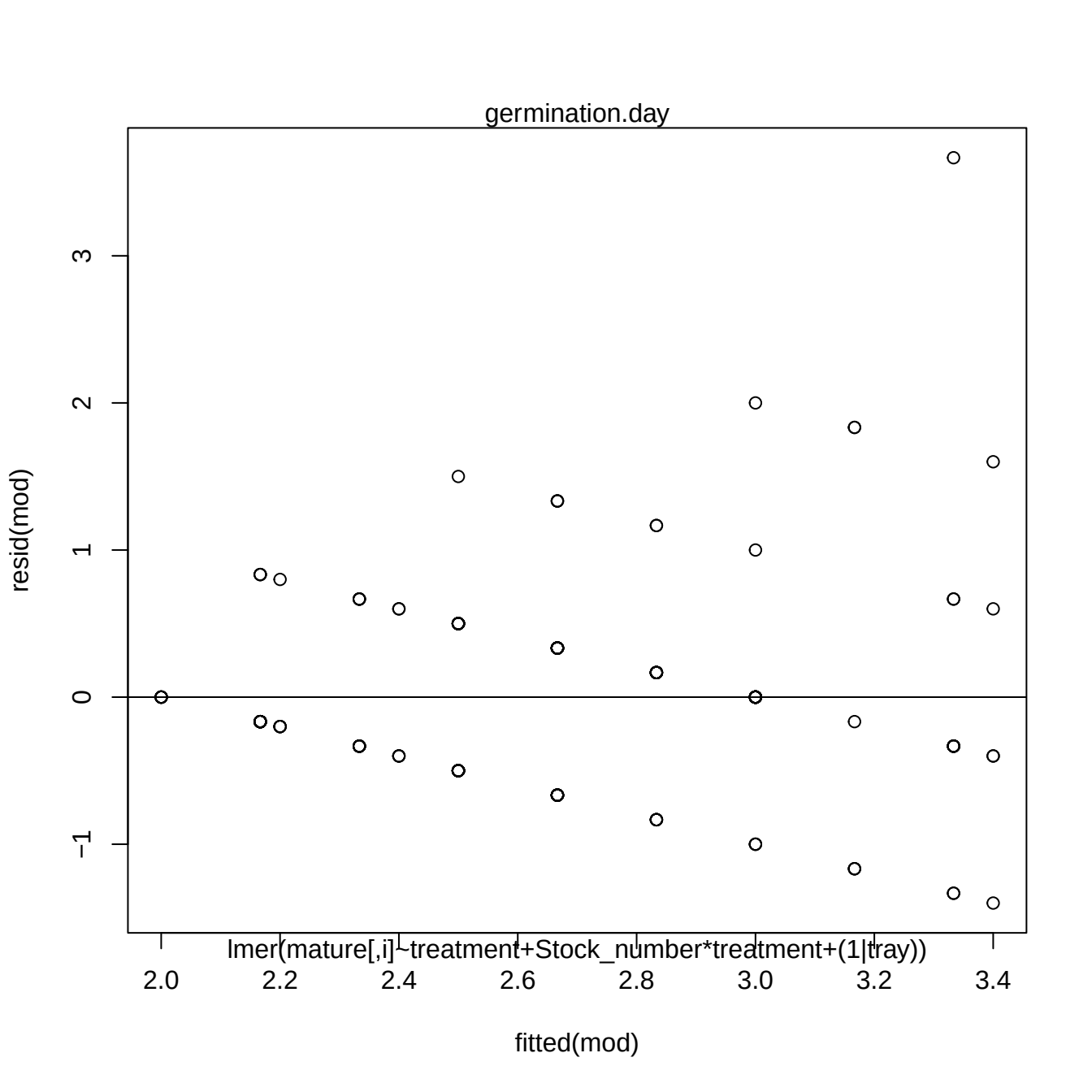
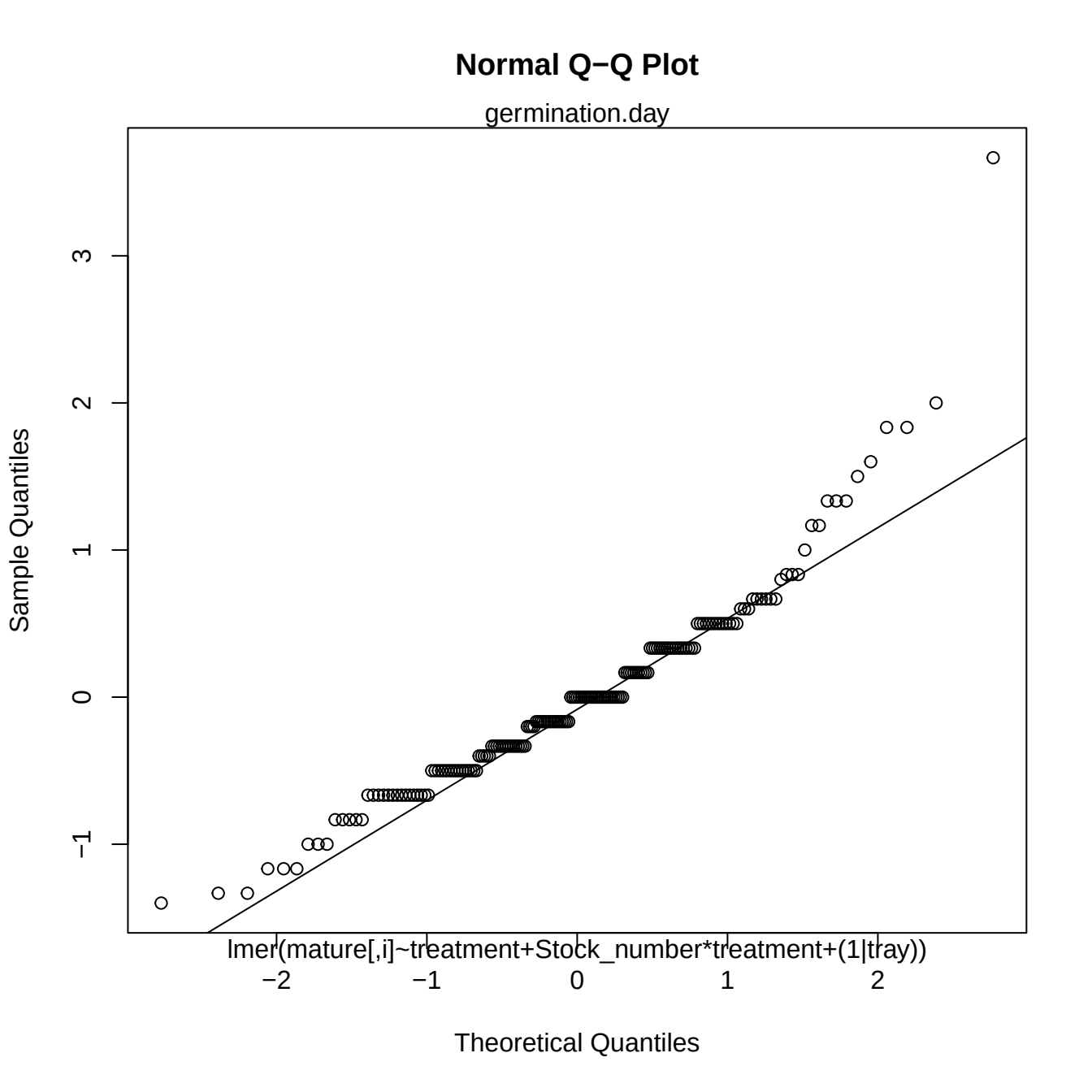
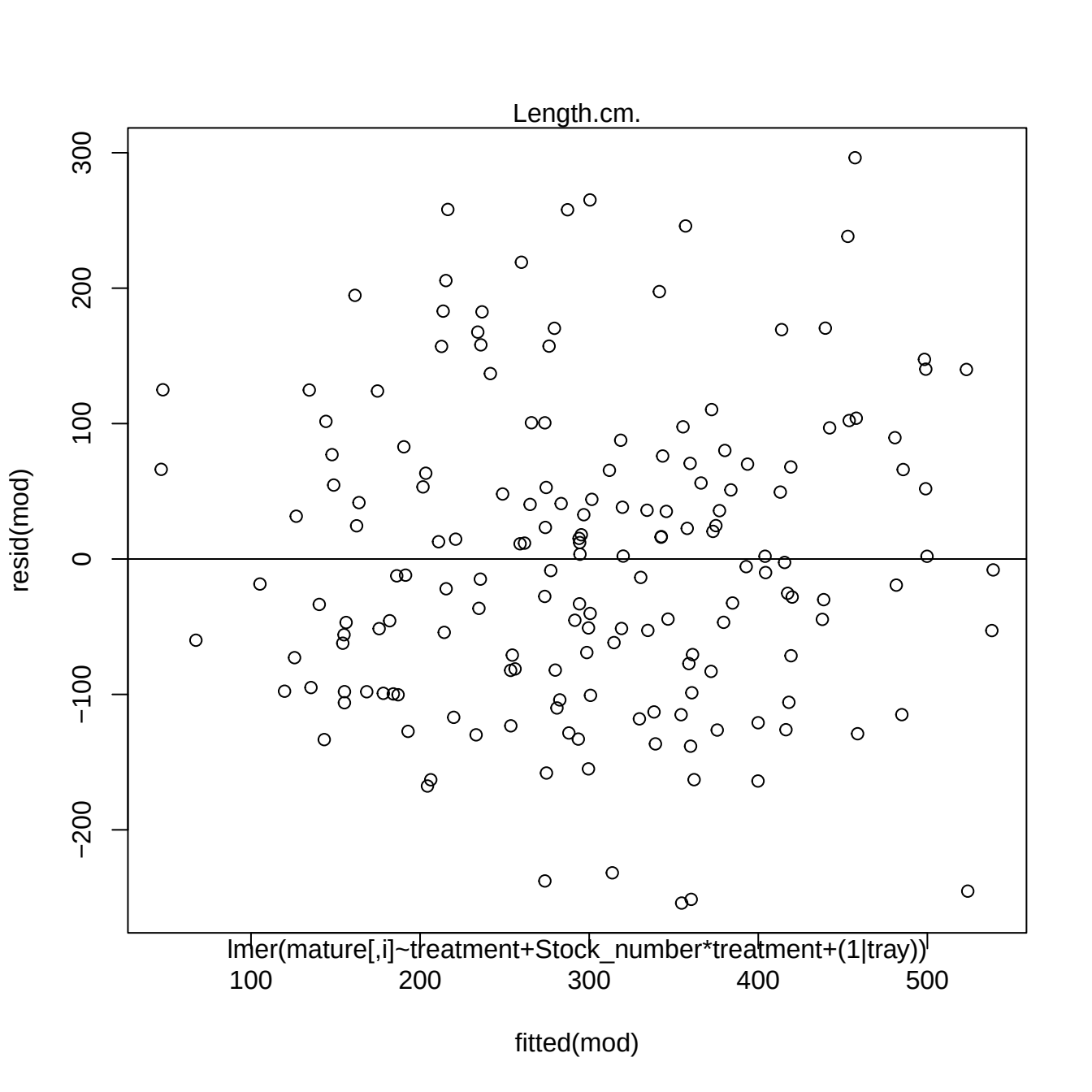
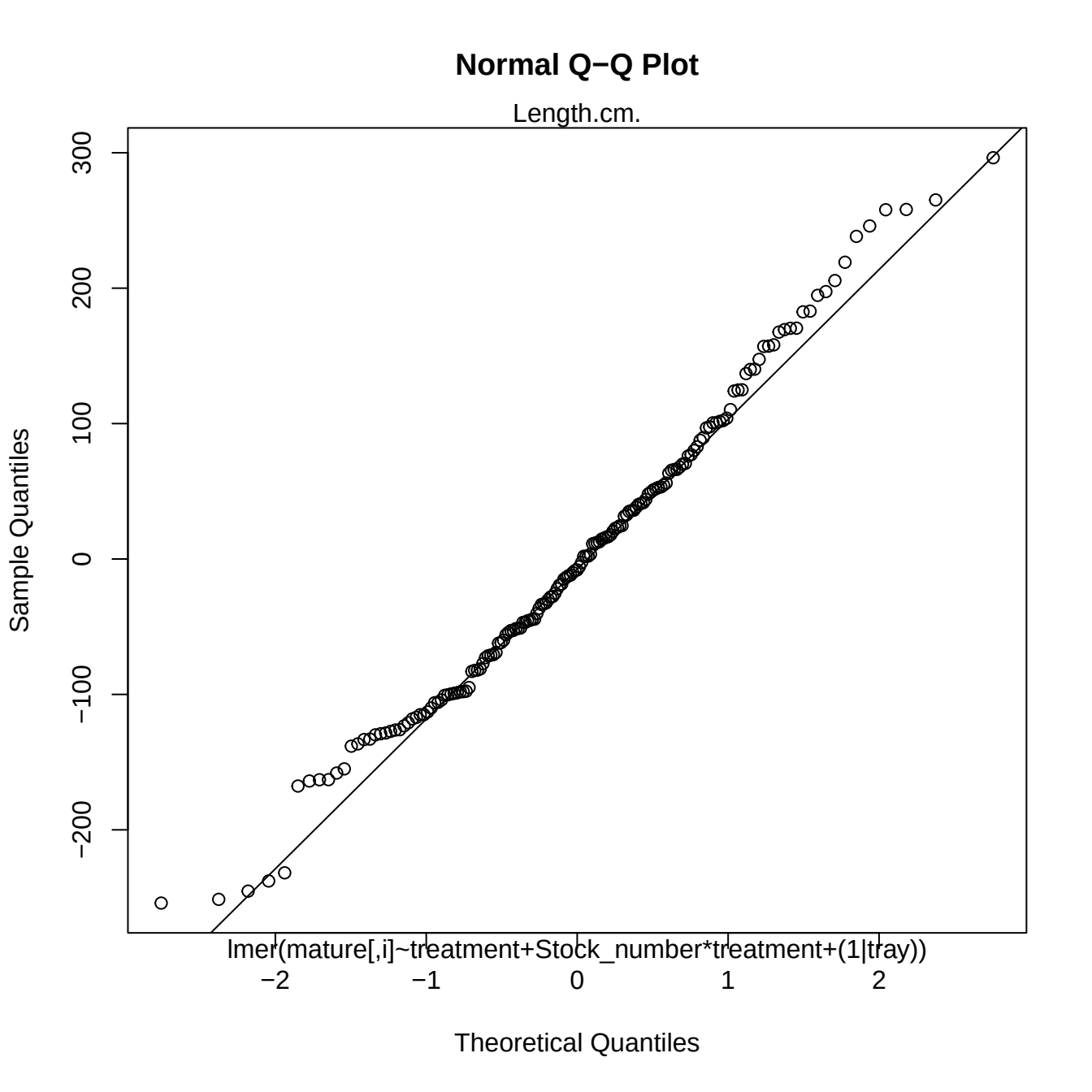
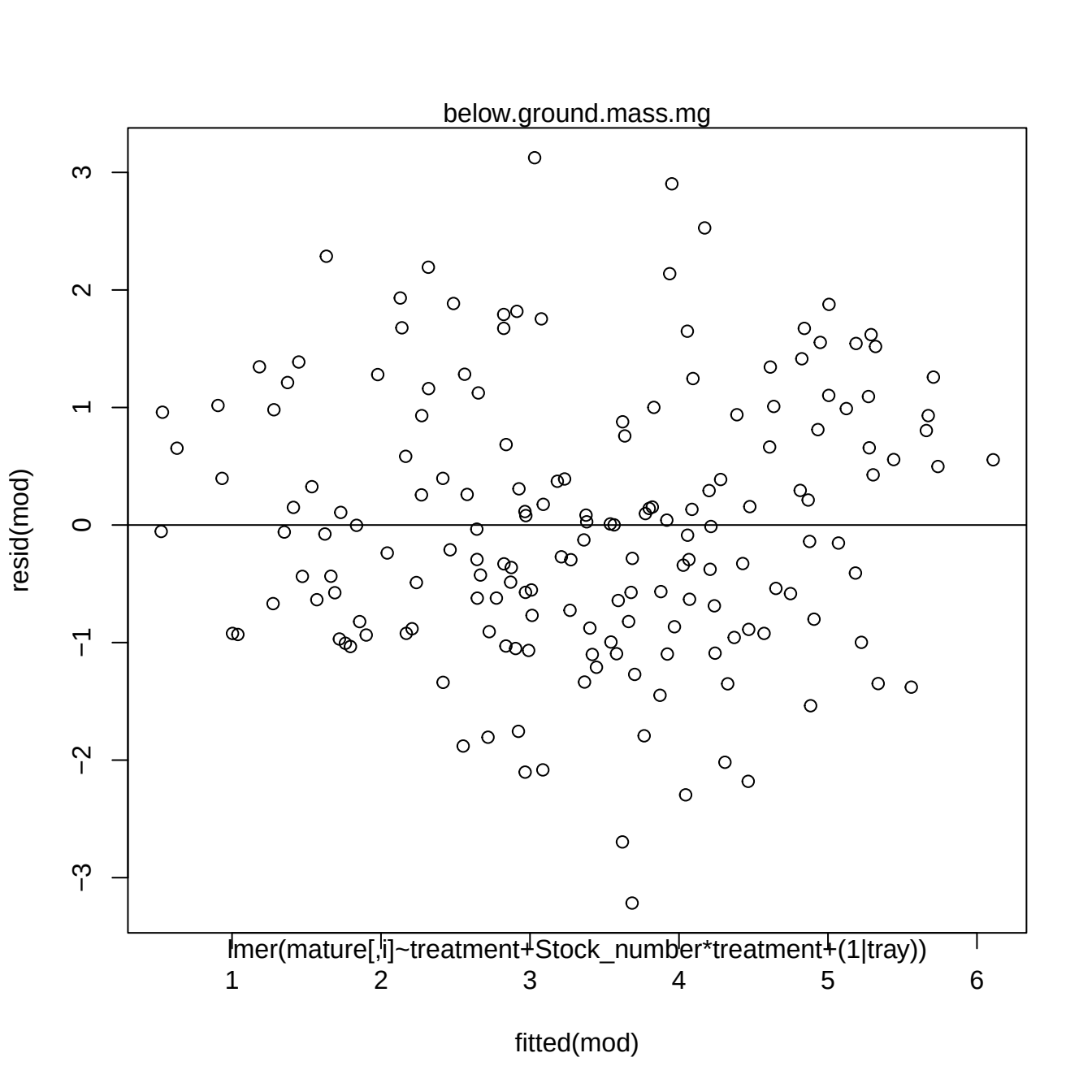
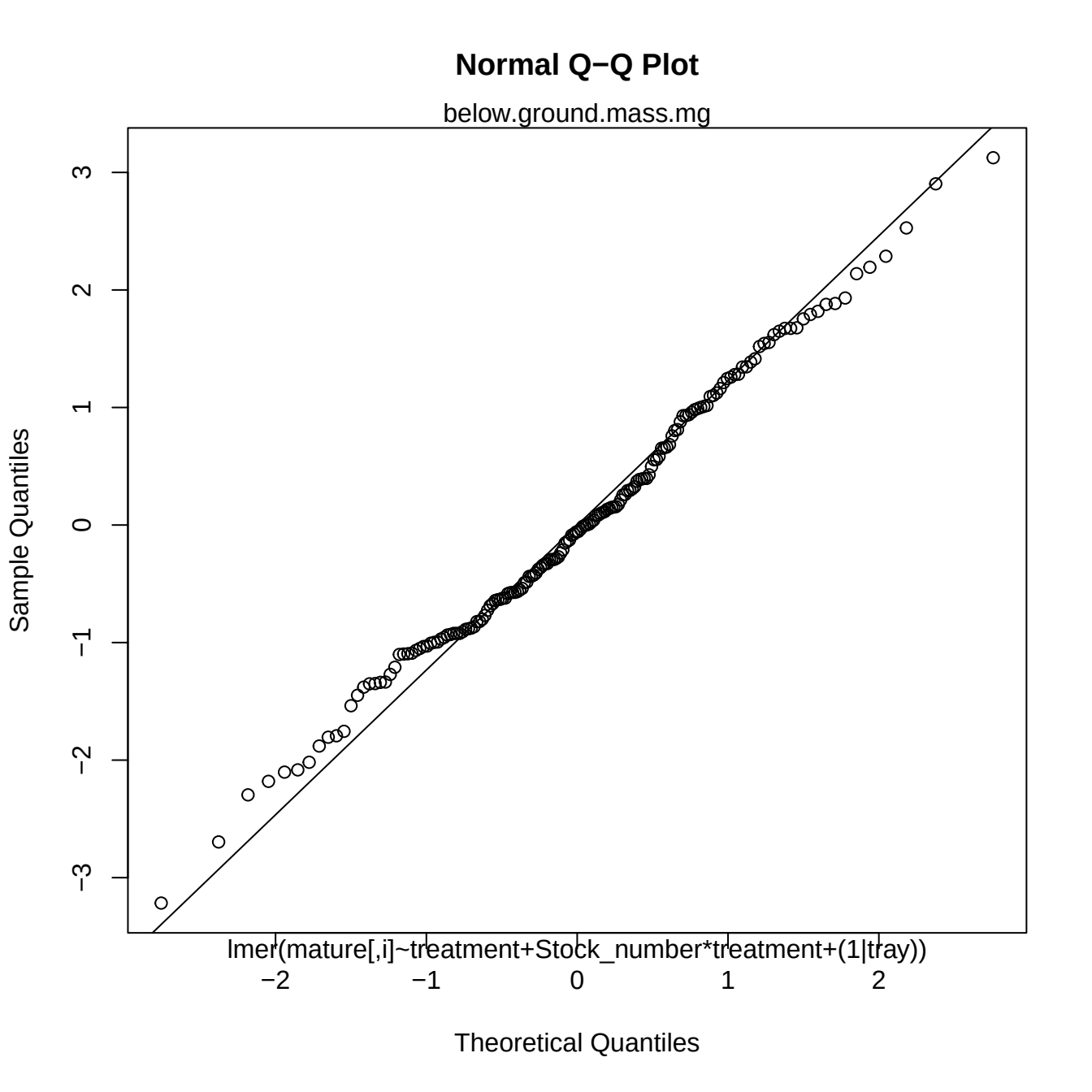

germination.day
resid(mod)
3
2
1
0
−1
lmer(mature[,i] ~ treatment+Stock_number*treatment+(1|tray))
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
fitted(mod)

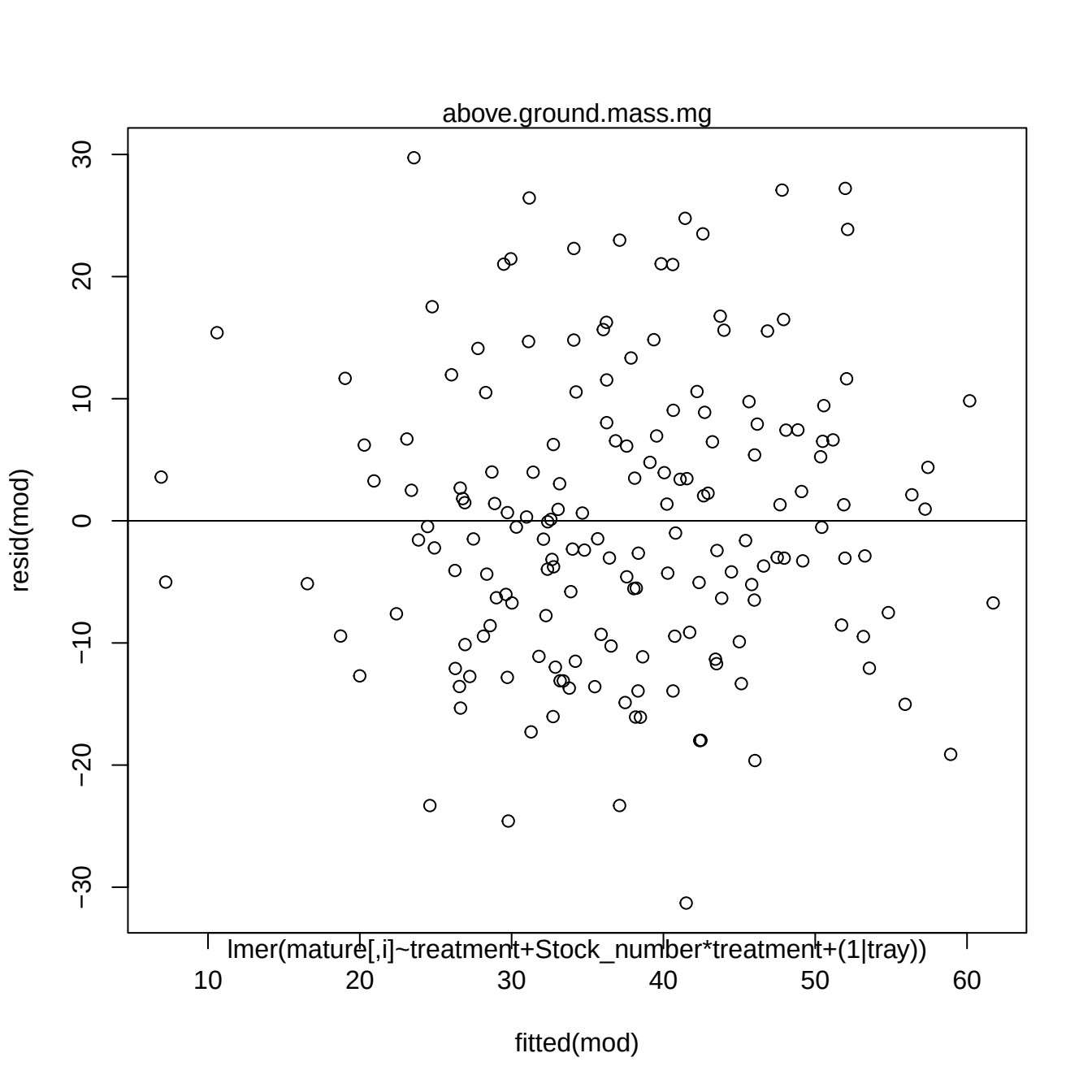

Normal Q−Q Plot
germination.day
Sample Quantiles
3
2
1
0
−1
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

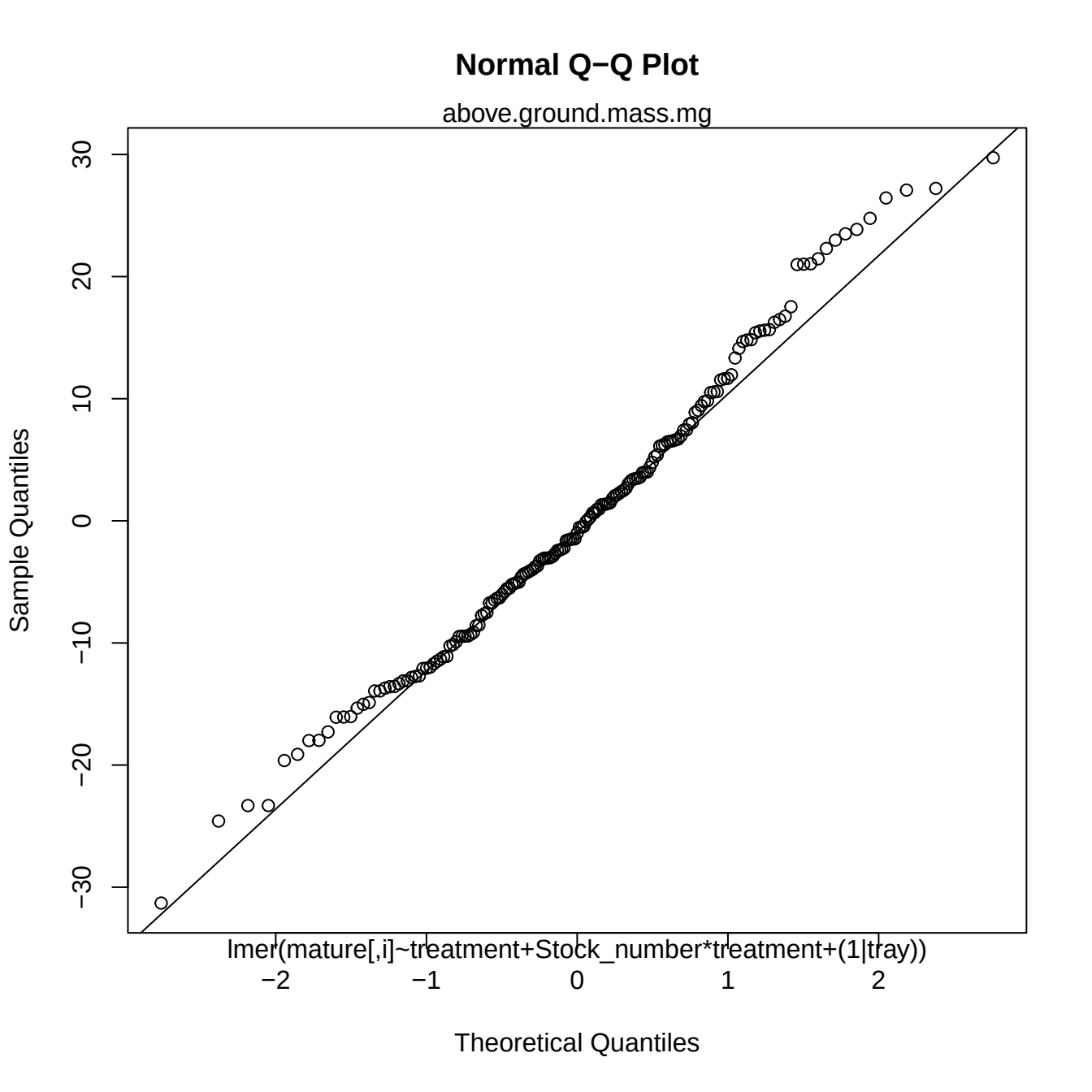

Length.cm.
resid(mod)
300
200
100
0
−100
−200
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
100
200
300
400
500
fitted(mod)

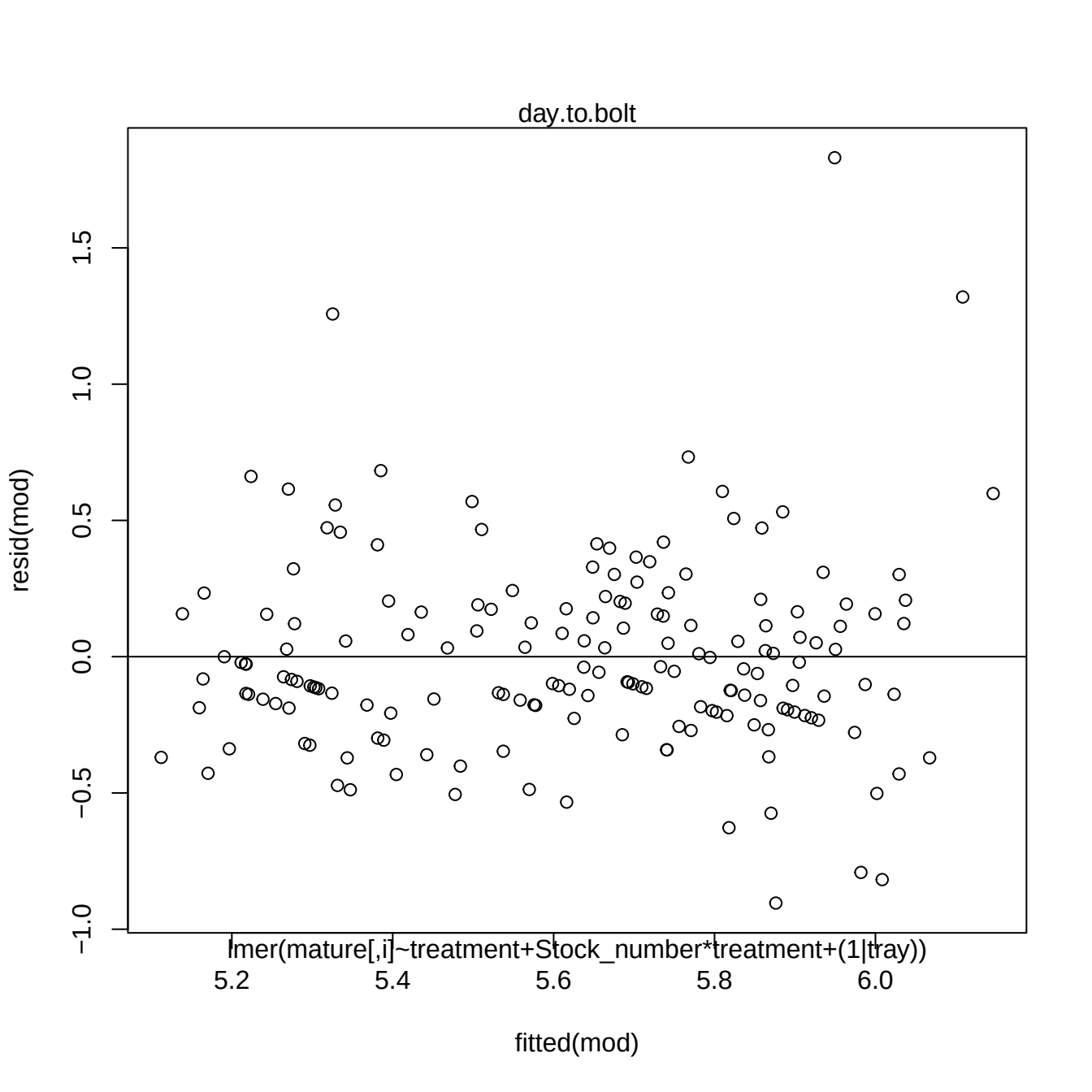

Normal Q−Q Plot
Length.cm.
Sample Quantiles
300
200
100
0
−100
−200
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

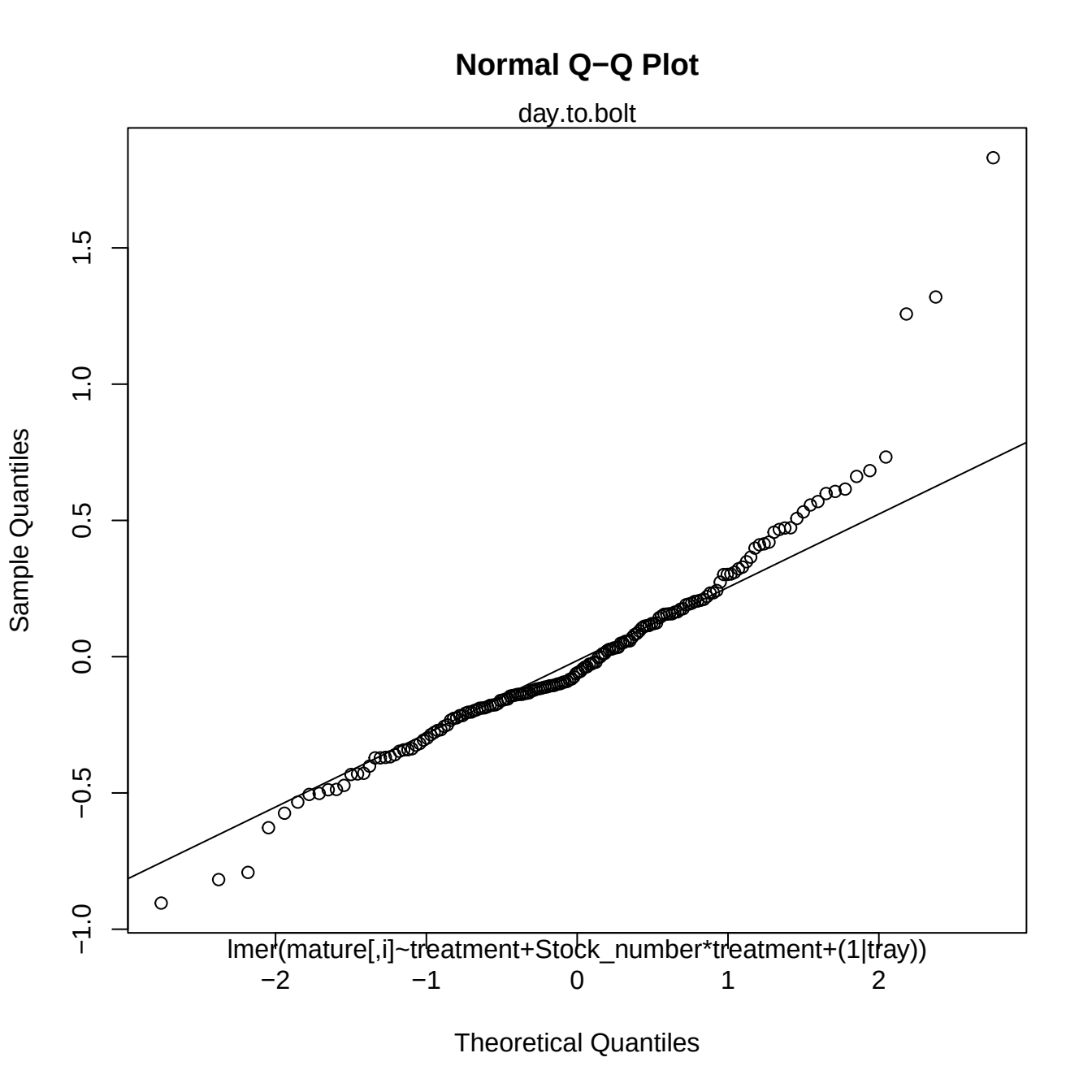

below.ground.mass.mg
resid(mod)
3
2
1
0
−1
−2
−3
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
1
2
3
4
5
6
fitted(mod)

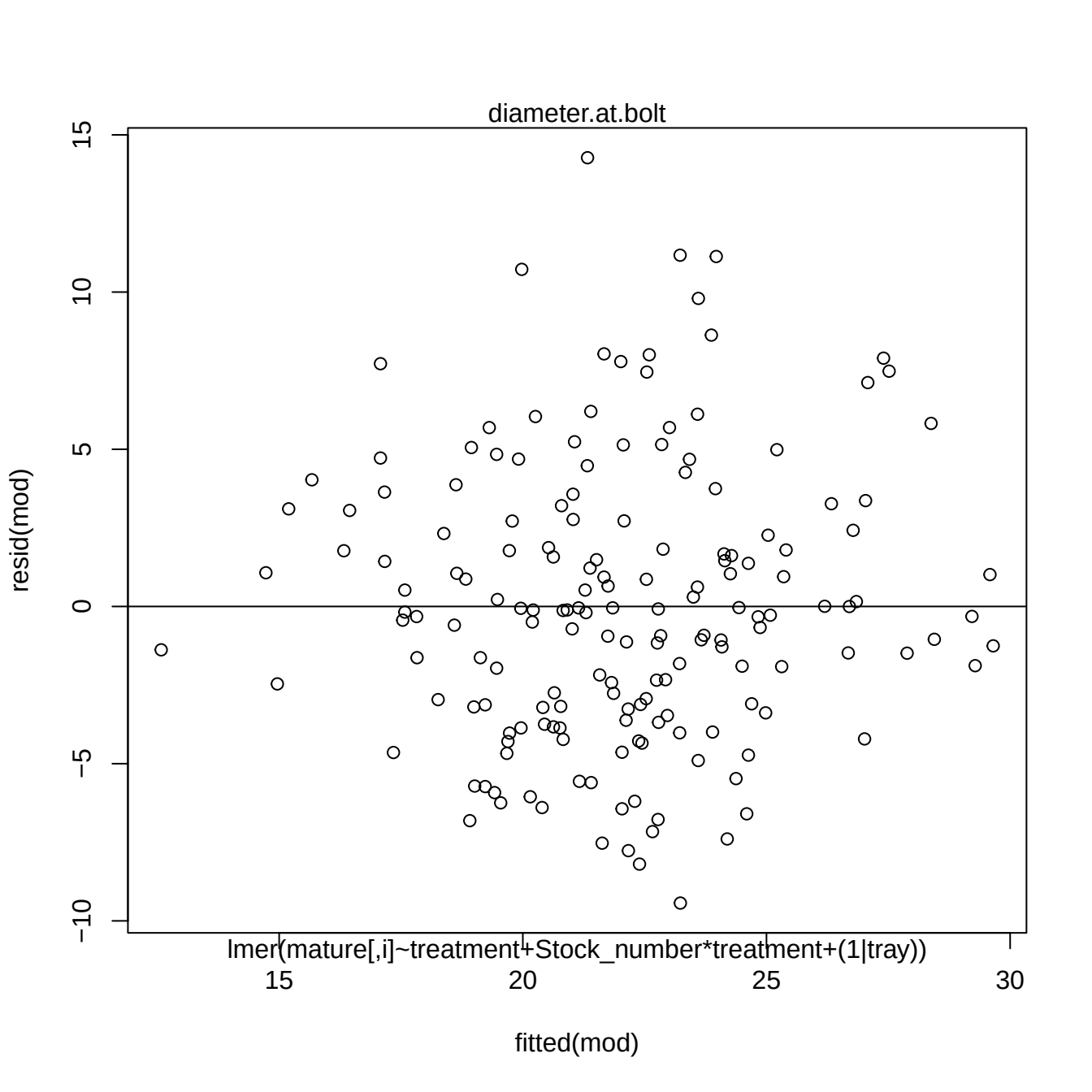

Normal Q−Q Plot
below.ground.mass.mg
Sample Quantiles
Theoretical Quantiles
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
3
2
1
0
−1
−2
−3
−2
−1
0
1
2

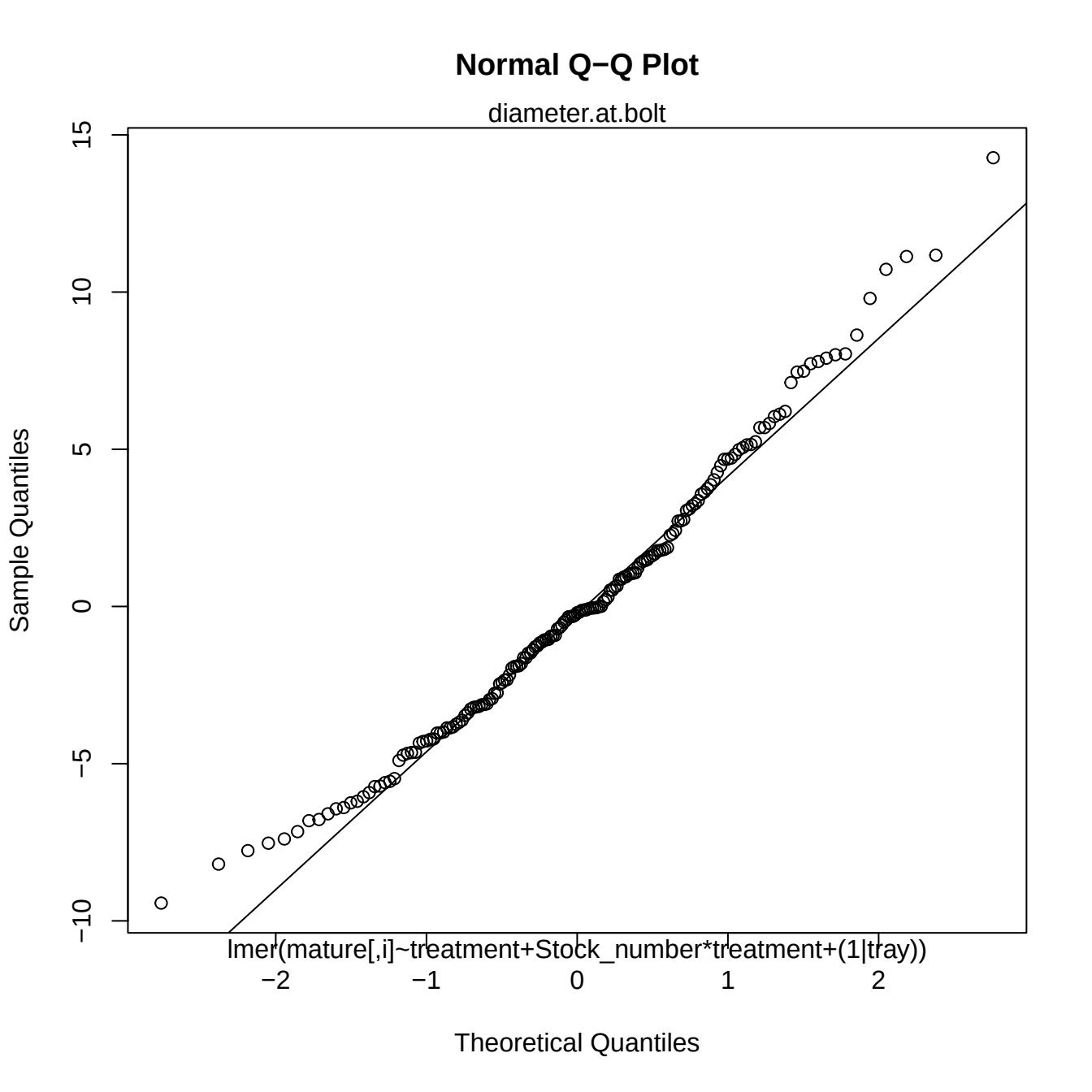

above.ground.mass.mg
resid(mod)
30
20
10
0
−10
−20
−30
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
10
20
30
40
50
60
fitted(mod)

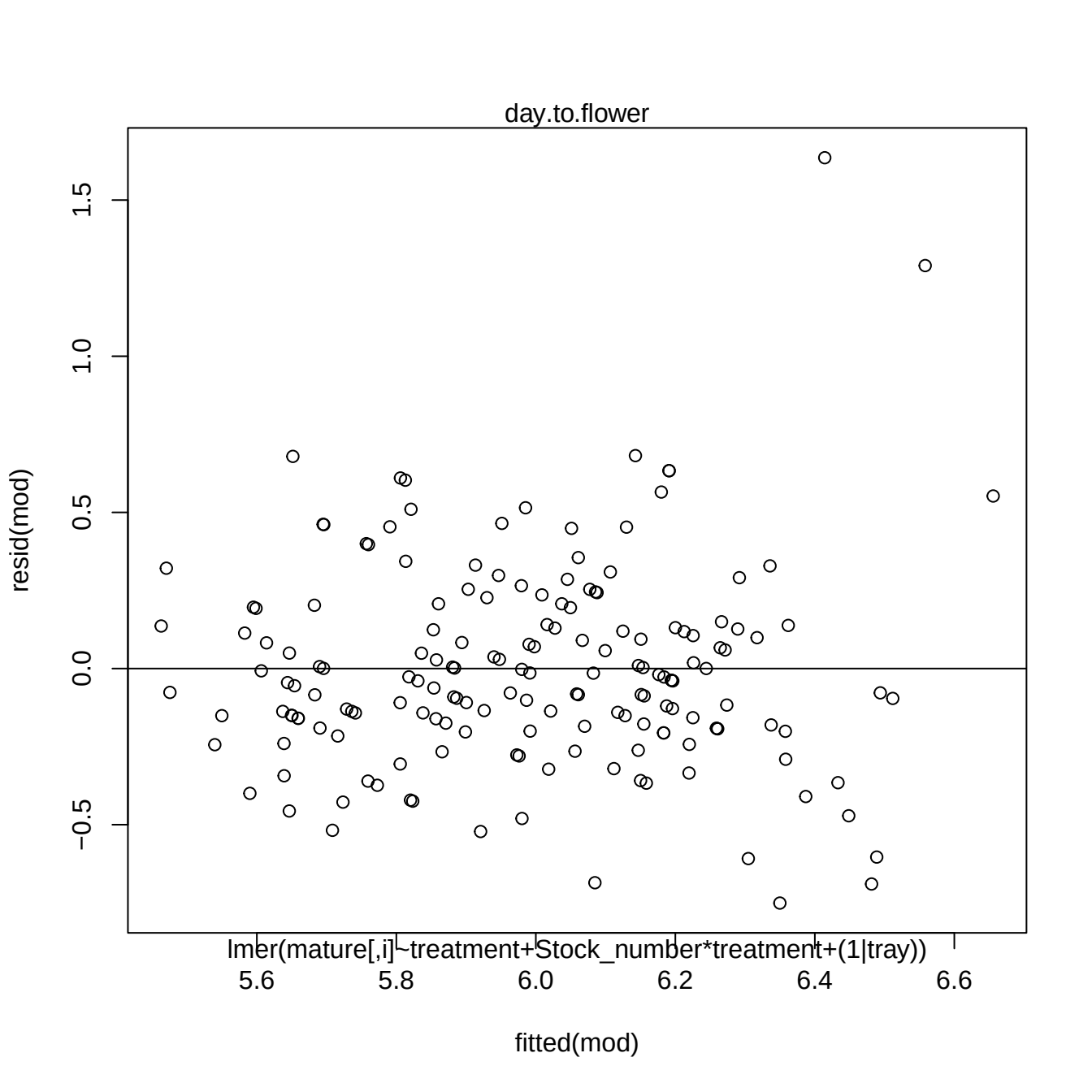

Normal Q−Q Plot
above.ground.mass.mg
Sample Quantiles
30
20
10
0
−10
−20
−30
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

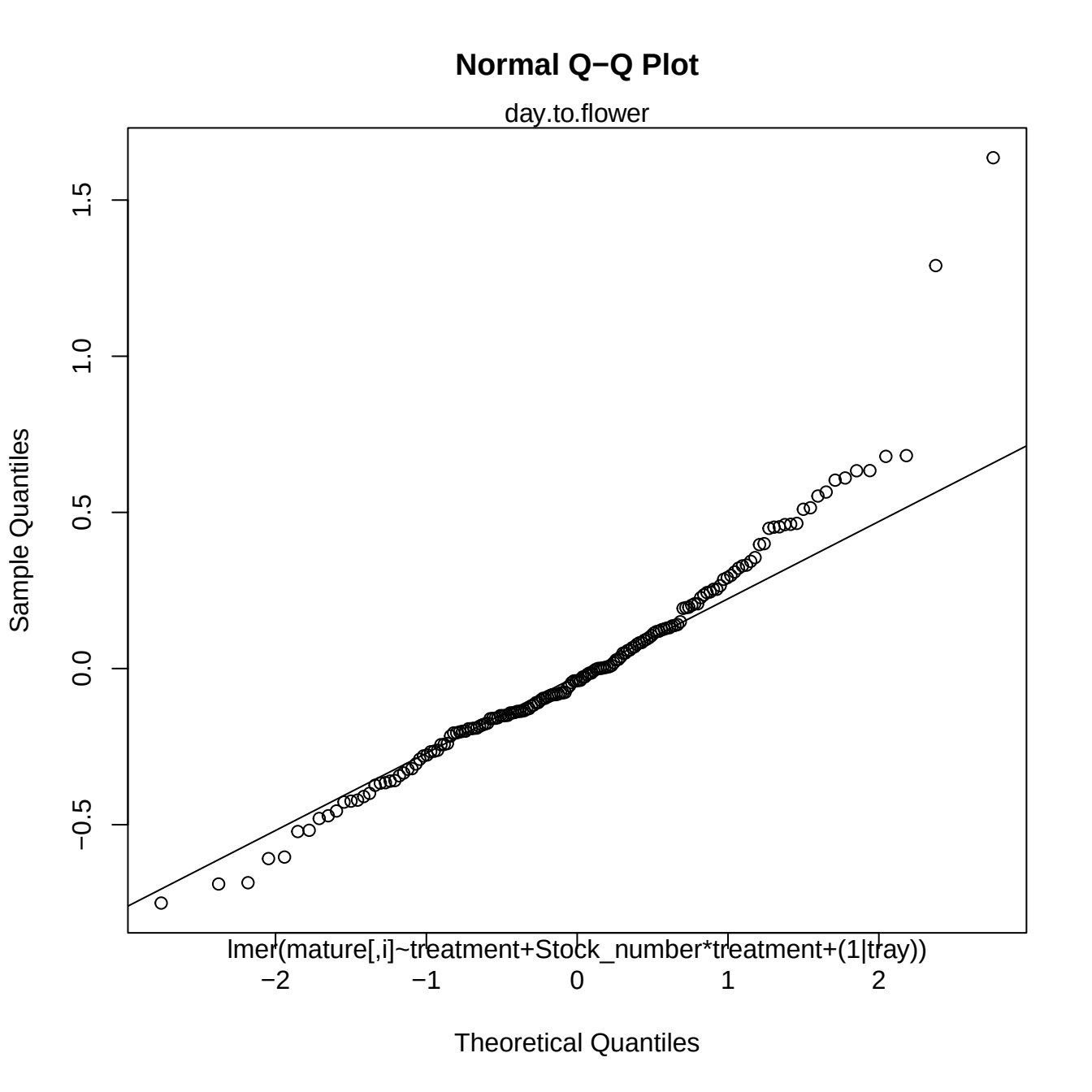

day.to.bolt
resid(mod)
1.5
1.0
0.5
0.0
−0.5
−1.0
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
5.2
5.4
5.6
5.8
6.0
fitted(mod)

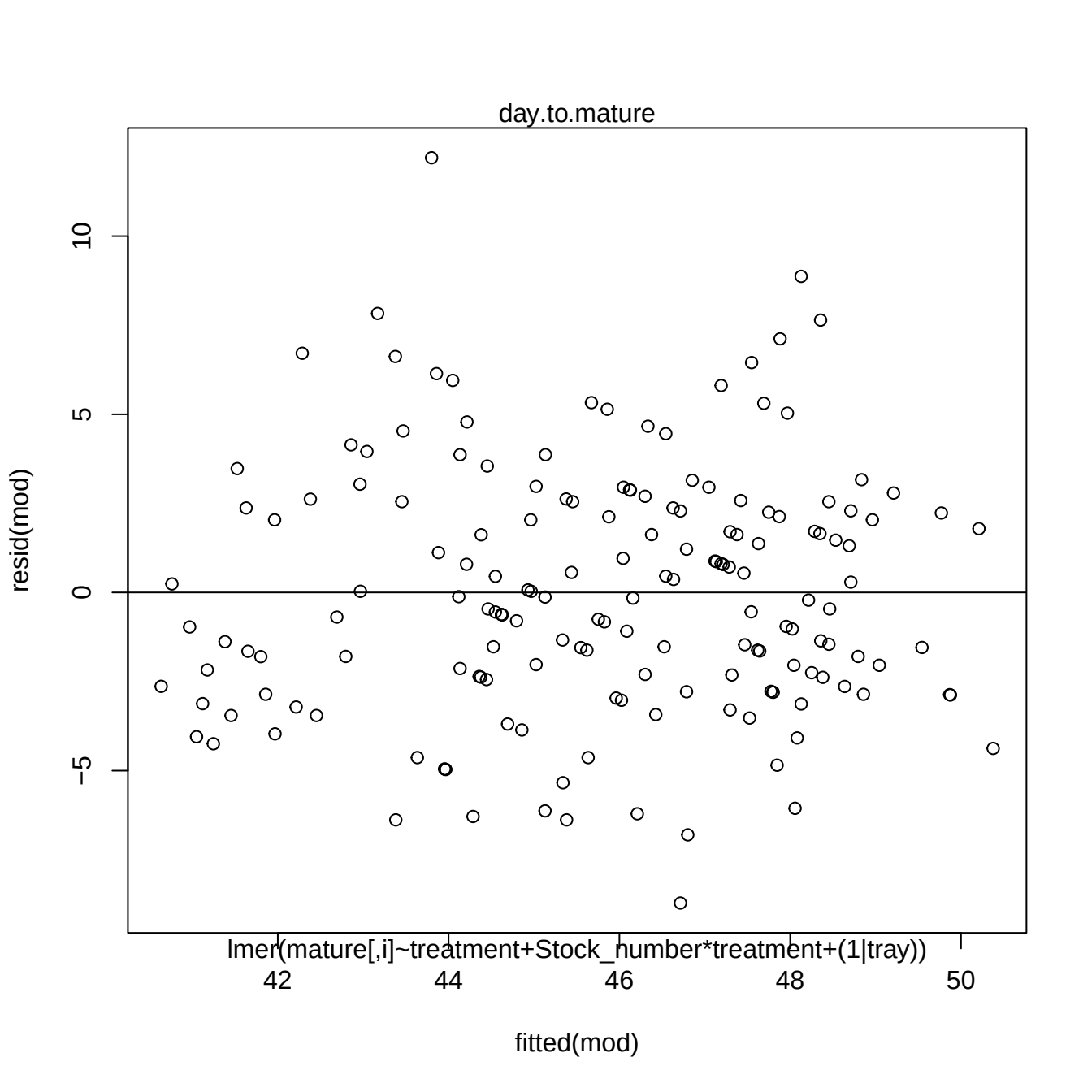

Normal Q−Q Plot
day.to.bolt
Sample Quantiles
Theoretical Quantiles
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−1.0
−0.5
0.0
0.5
1.0
1.5
−2
−1
0
1
2

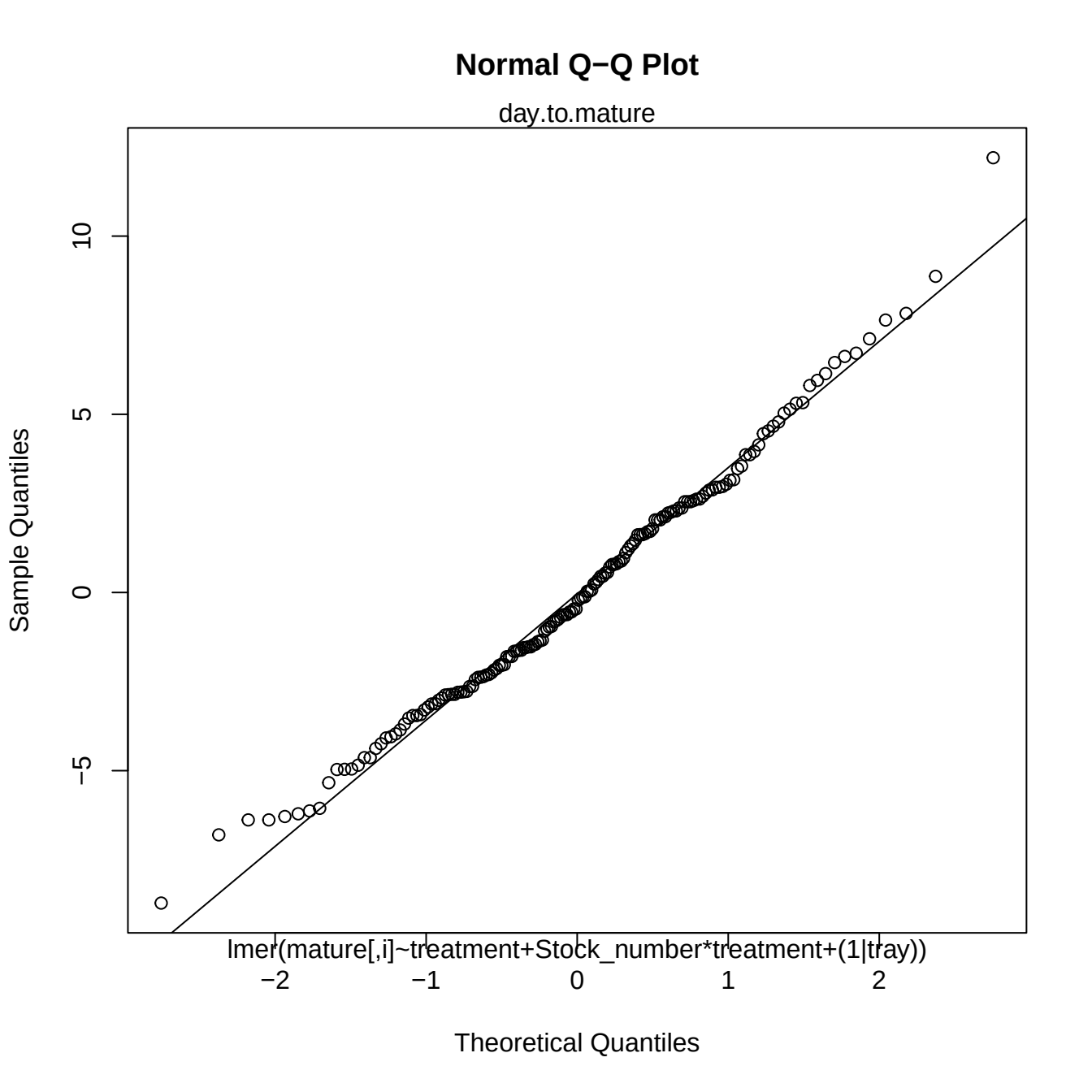

diameter.at.bolt
resid(mod)
15
10
5
0
−5
−10
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
15
20
25
30
fitted(mod)

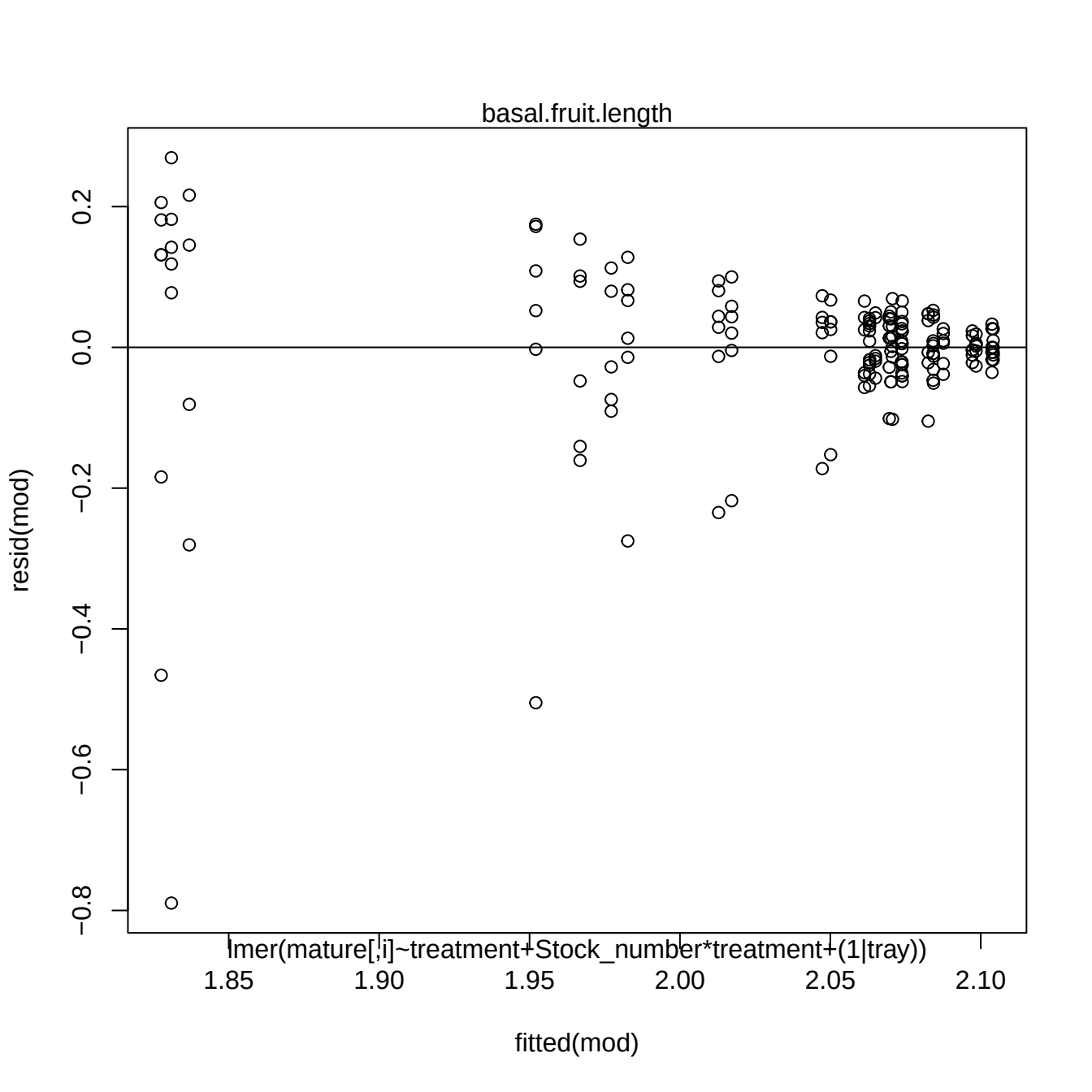

Normal Q−Q Plot
diameter.at.bolt
Sample Quantiles
Theoretical Quantiles
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
15
10
5
0
−5
−10
−2
−1
0
1
2

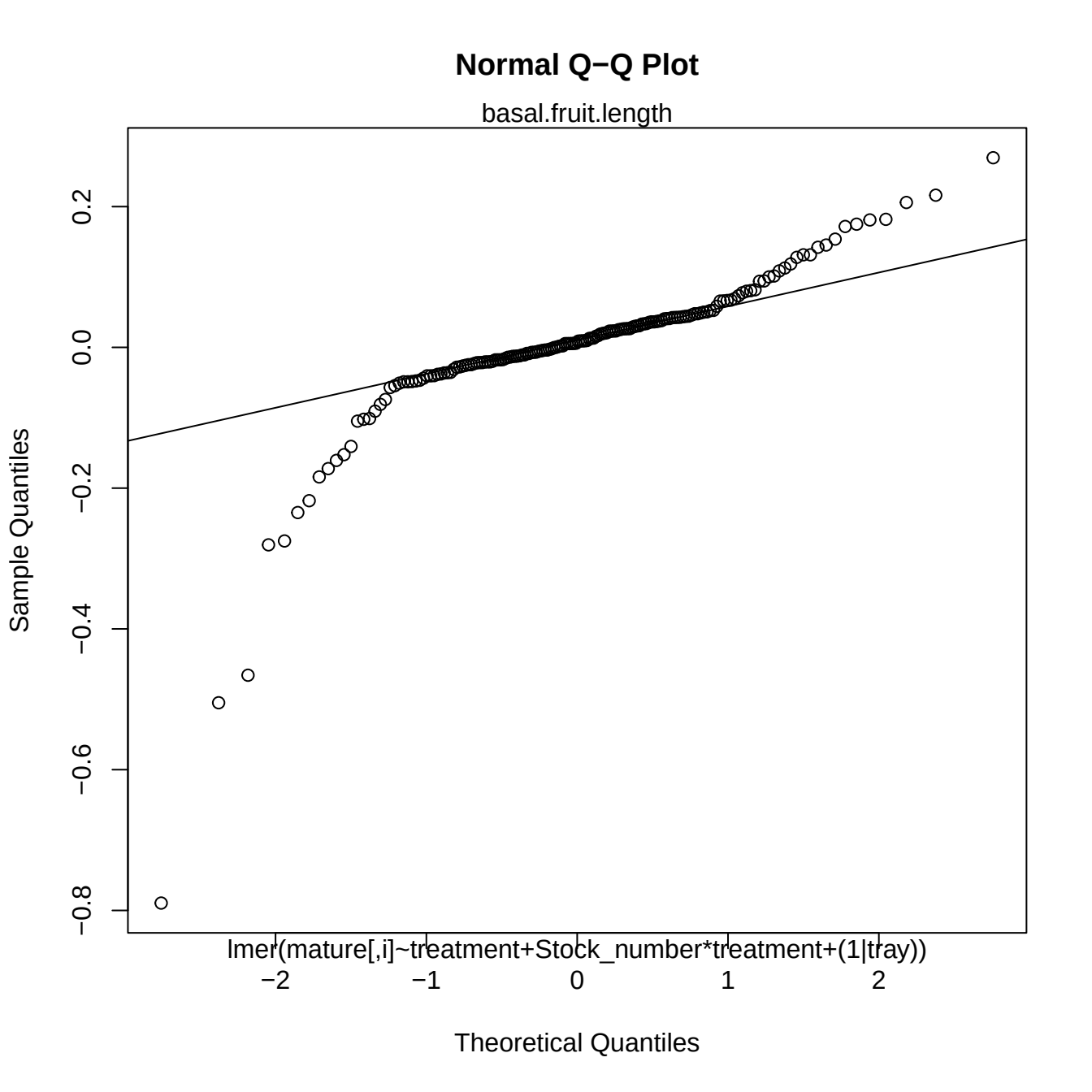

day.to.flower
resid(mod)
1.5
1.0
0.5
0.0
−0.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
5.6
5.8
6.0
6.2
6.4
6.6
fitted(mod)

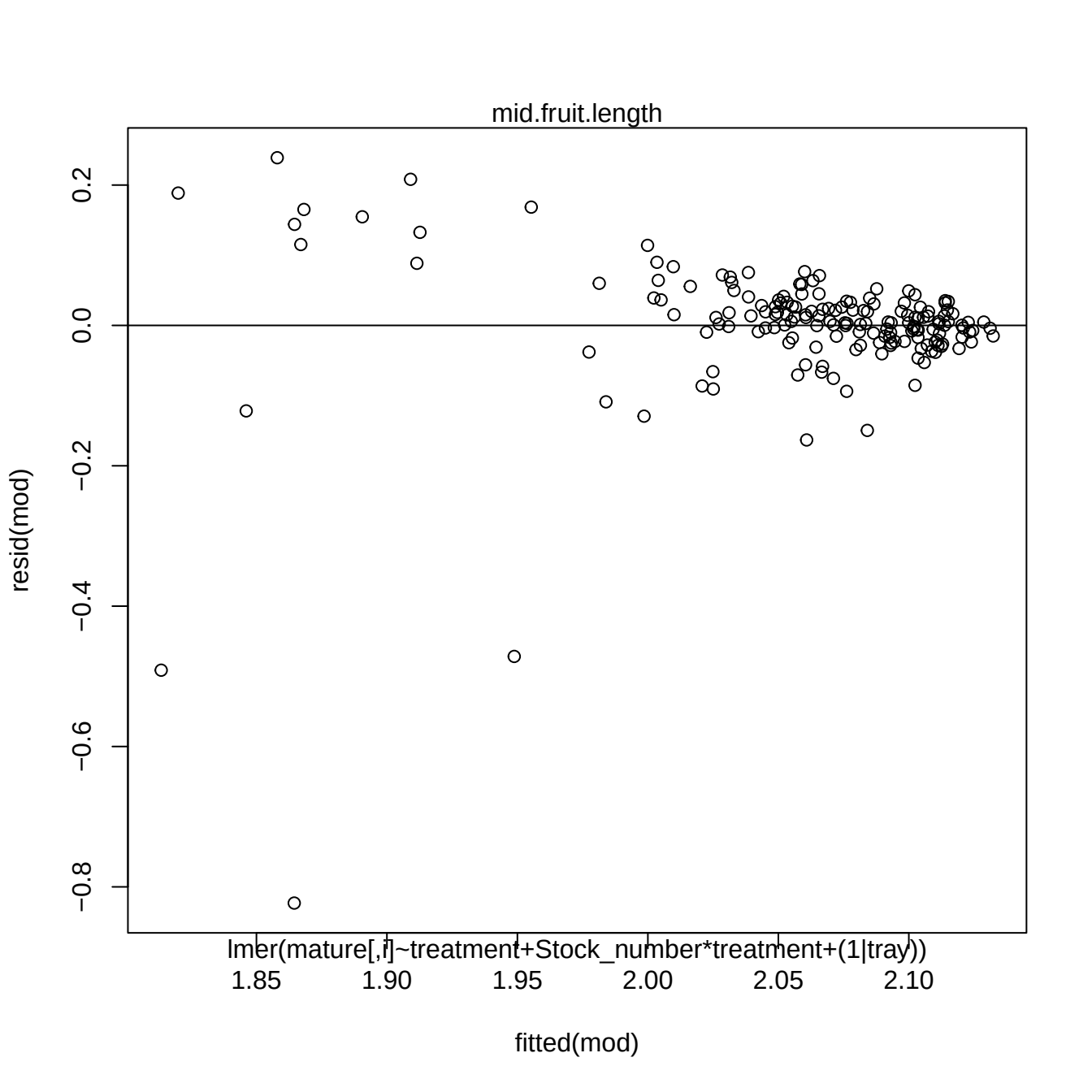

Normal Q−Q Plot
day.to.flower
Sample Quantiles
1.5
1.0
0.5
0.0
−0.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

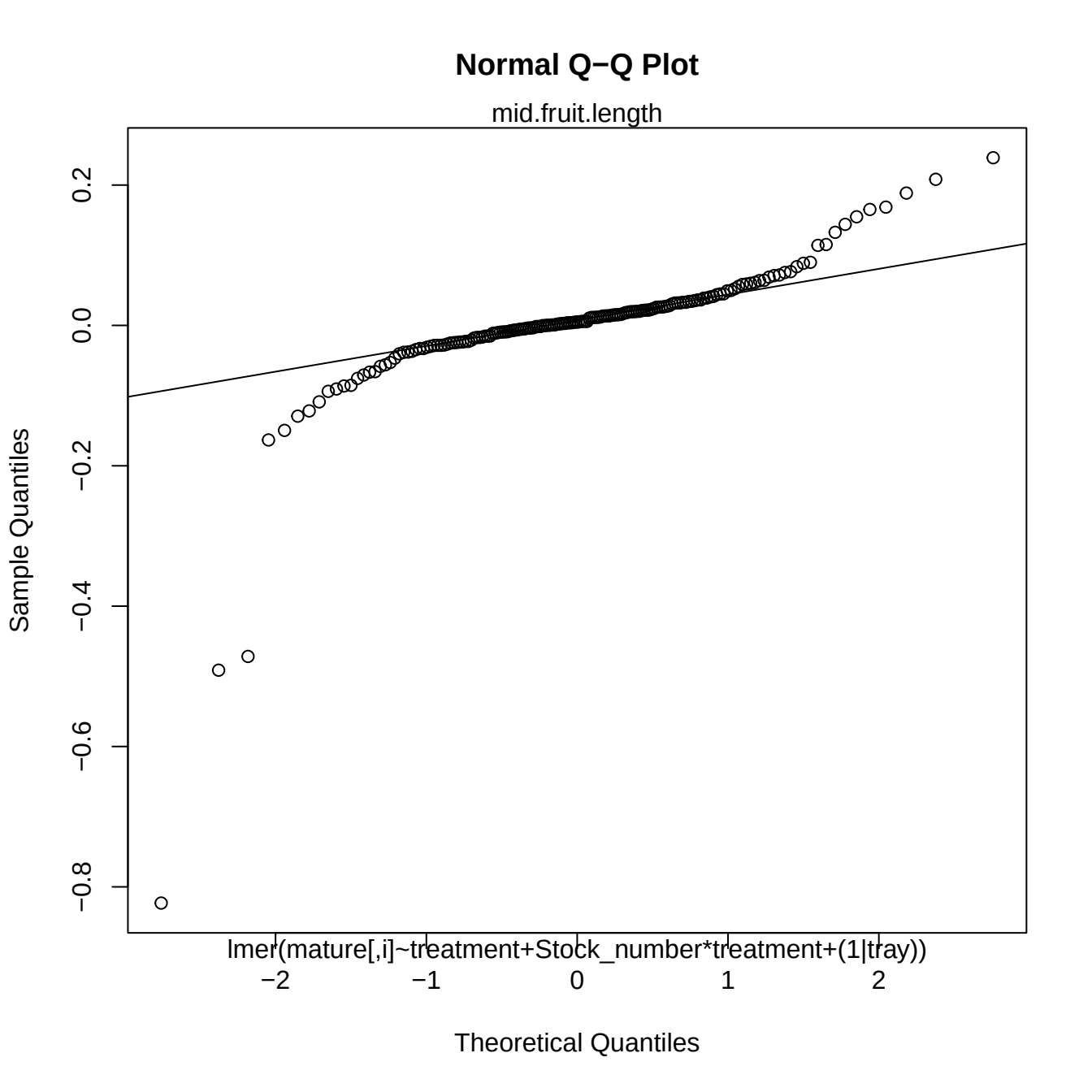

day.to.mature
resid(mod)
10
5
0
−5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
42
44
46
48
50
fitted(mod)

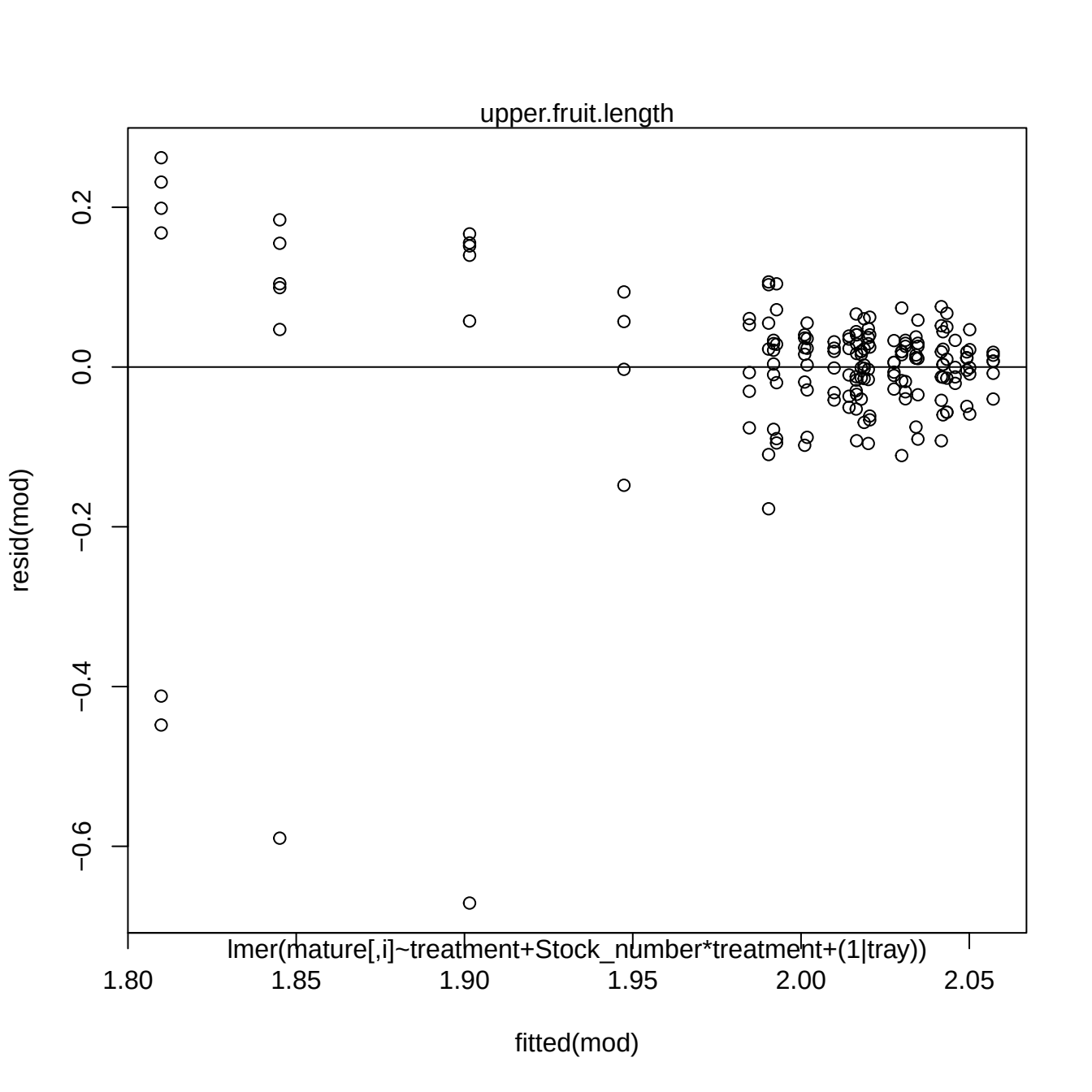

Normal Q−Q Plot
day.to.mature
Sample Quantiles
10
5
0
−5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

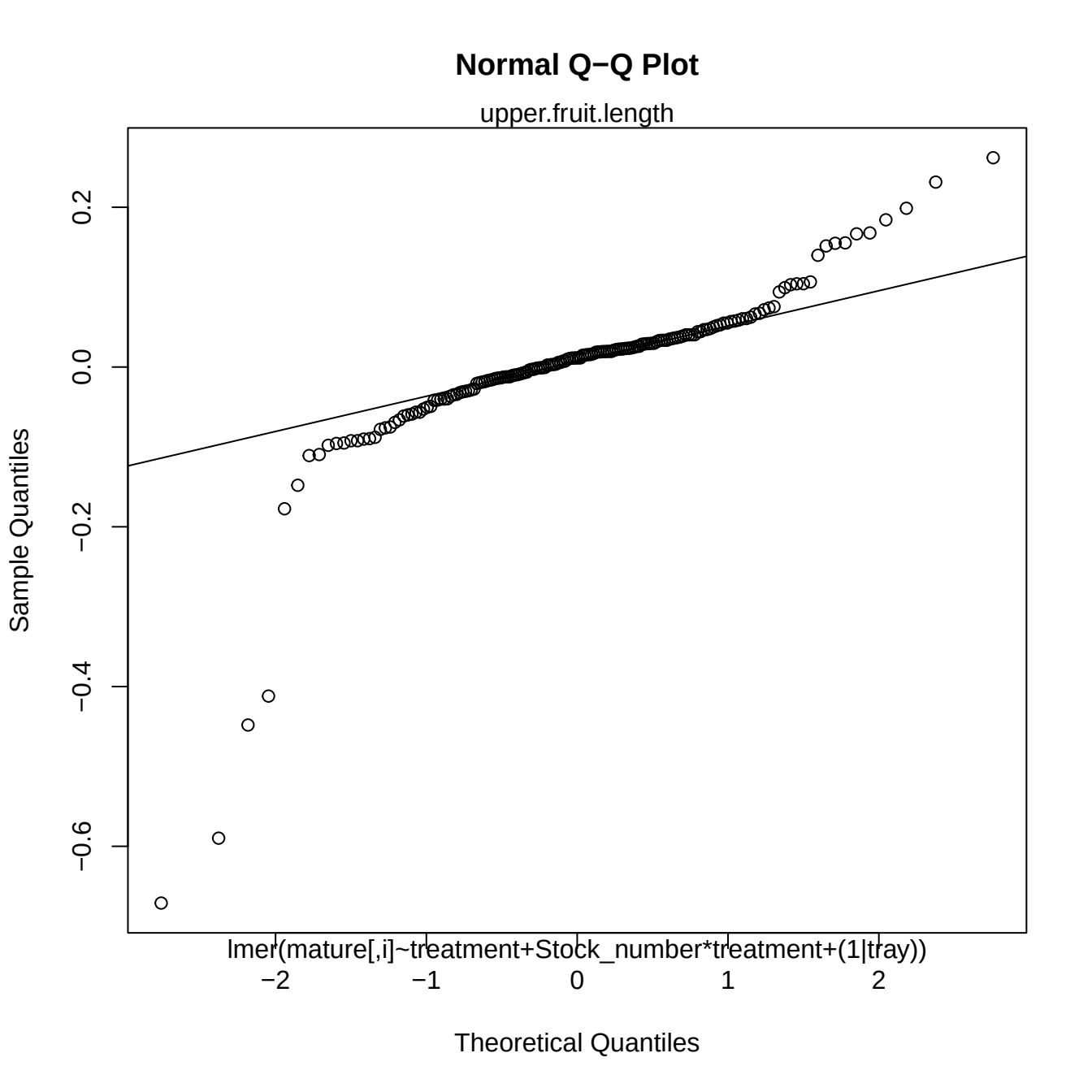

basal.fruit.length
resid(mod)
0.2
0.0
−0.2
−0.4
−0.6
−0.8
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
1.85
1.90
1.95
2.00
2.05
2.10
fitted(mod)

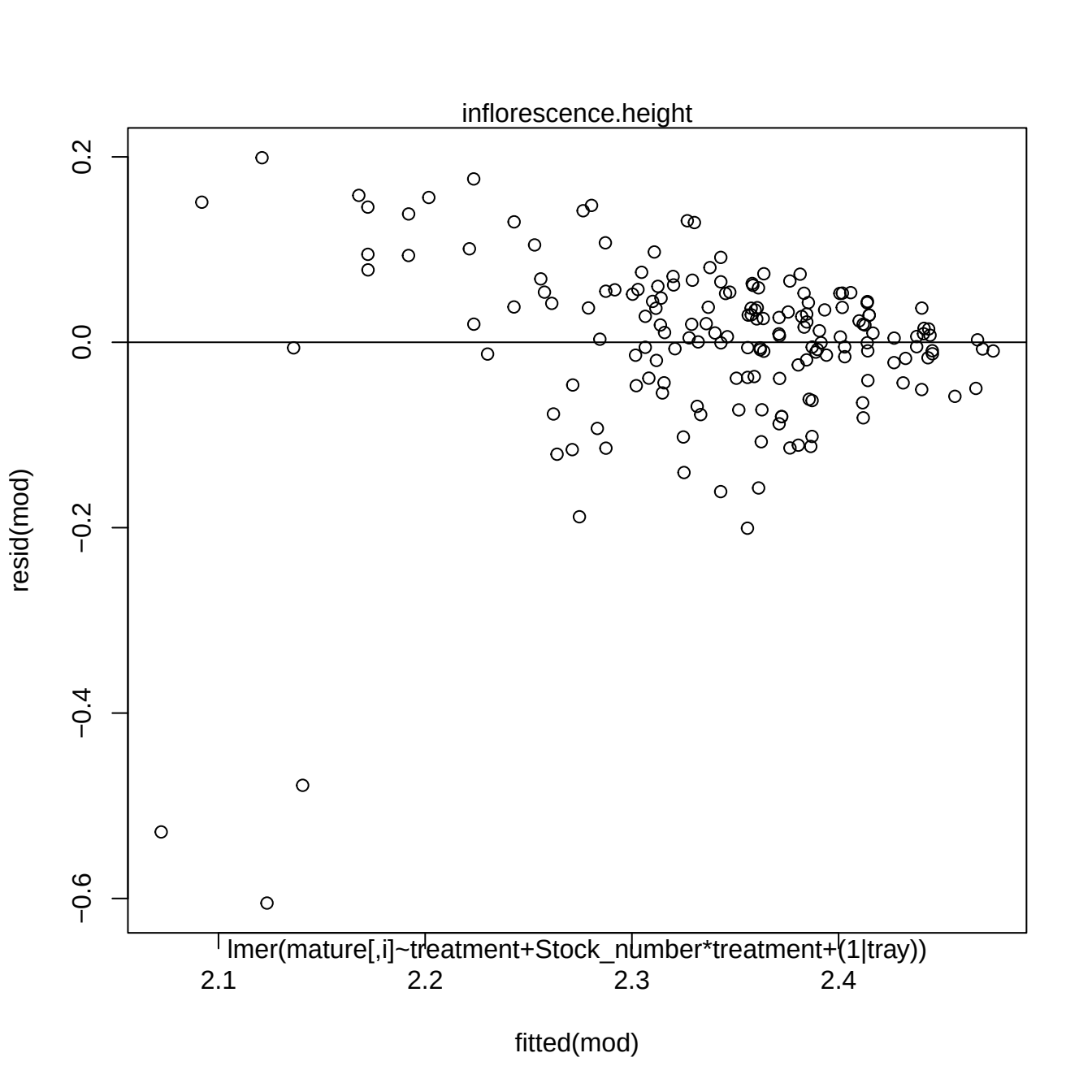

Normal Q−Q Plot
basal.fruit.length
Sample Quantiles
0.2
0.0
−0.2
−0.4
−0.6
−0.8
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

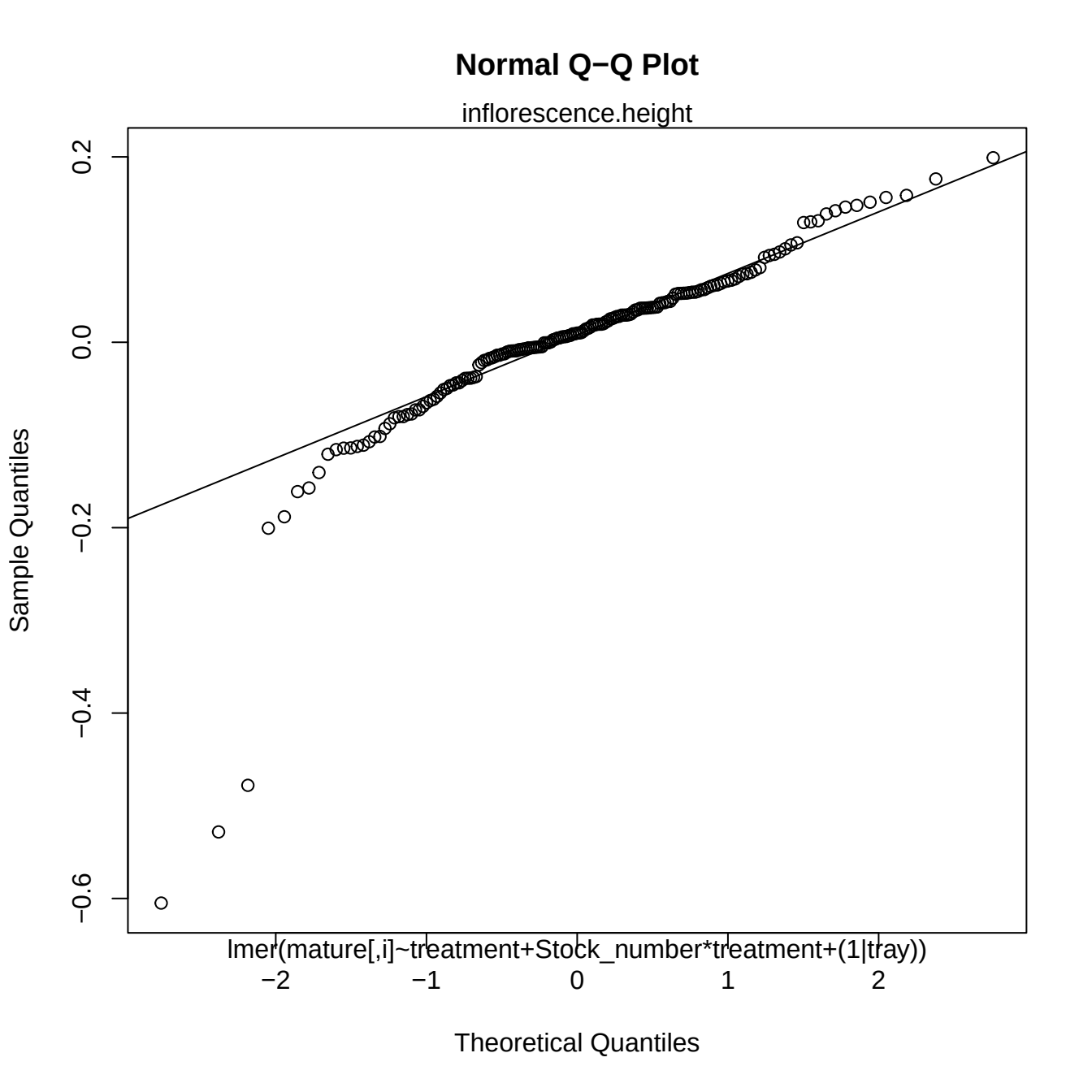

mid.fruit.length
resid(mod)
0.2
0.0
−0.2
−0.4
−0.6
−0.8
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
1.85
1.90
1.95
2.00
2.05
2.10
fitted(mod)

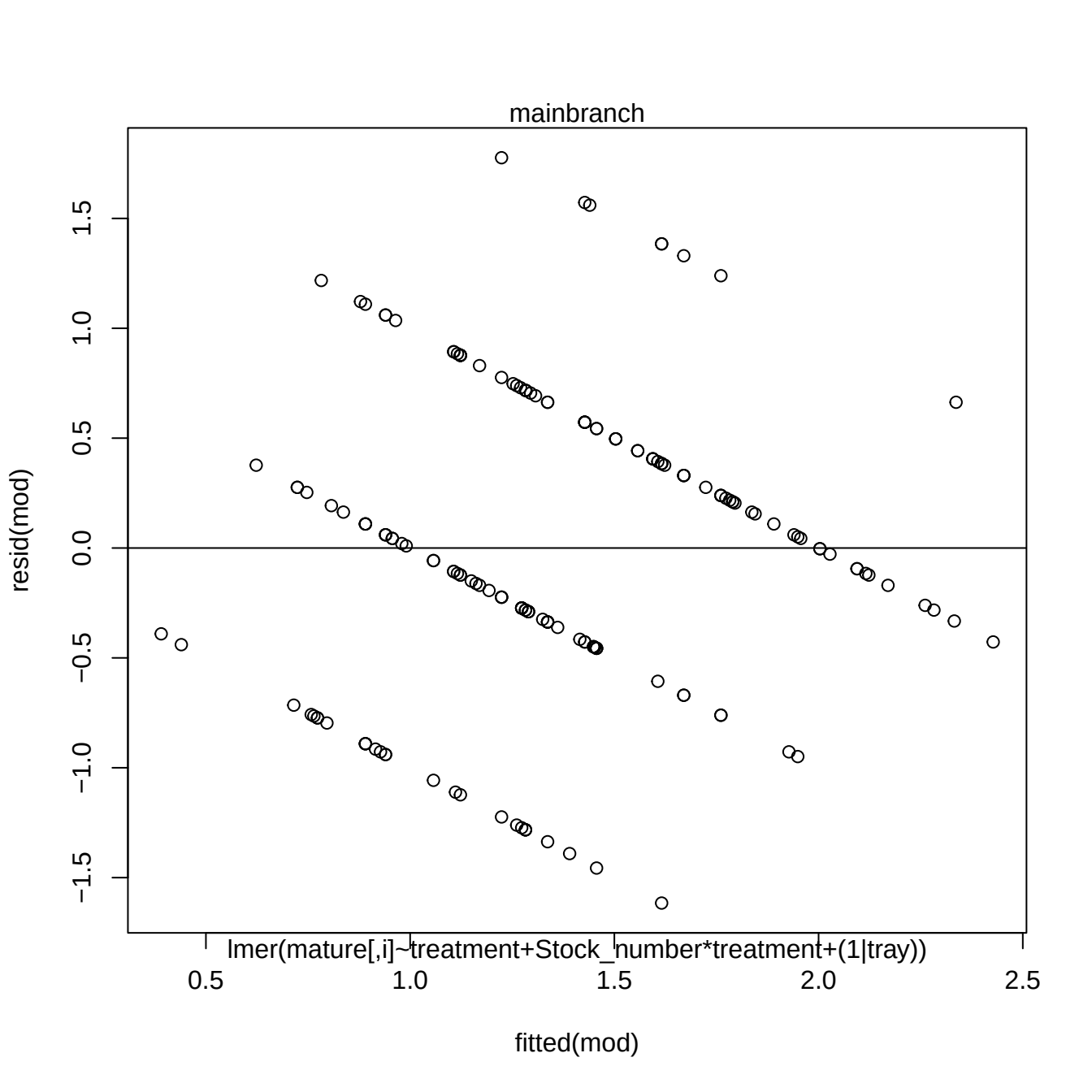

Normal Q−Q Plot
mid.fruit.length
Sample Quantiles
0.2
0.0
−0.2
−0.4
−0.6
−0.8
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

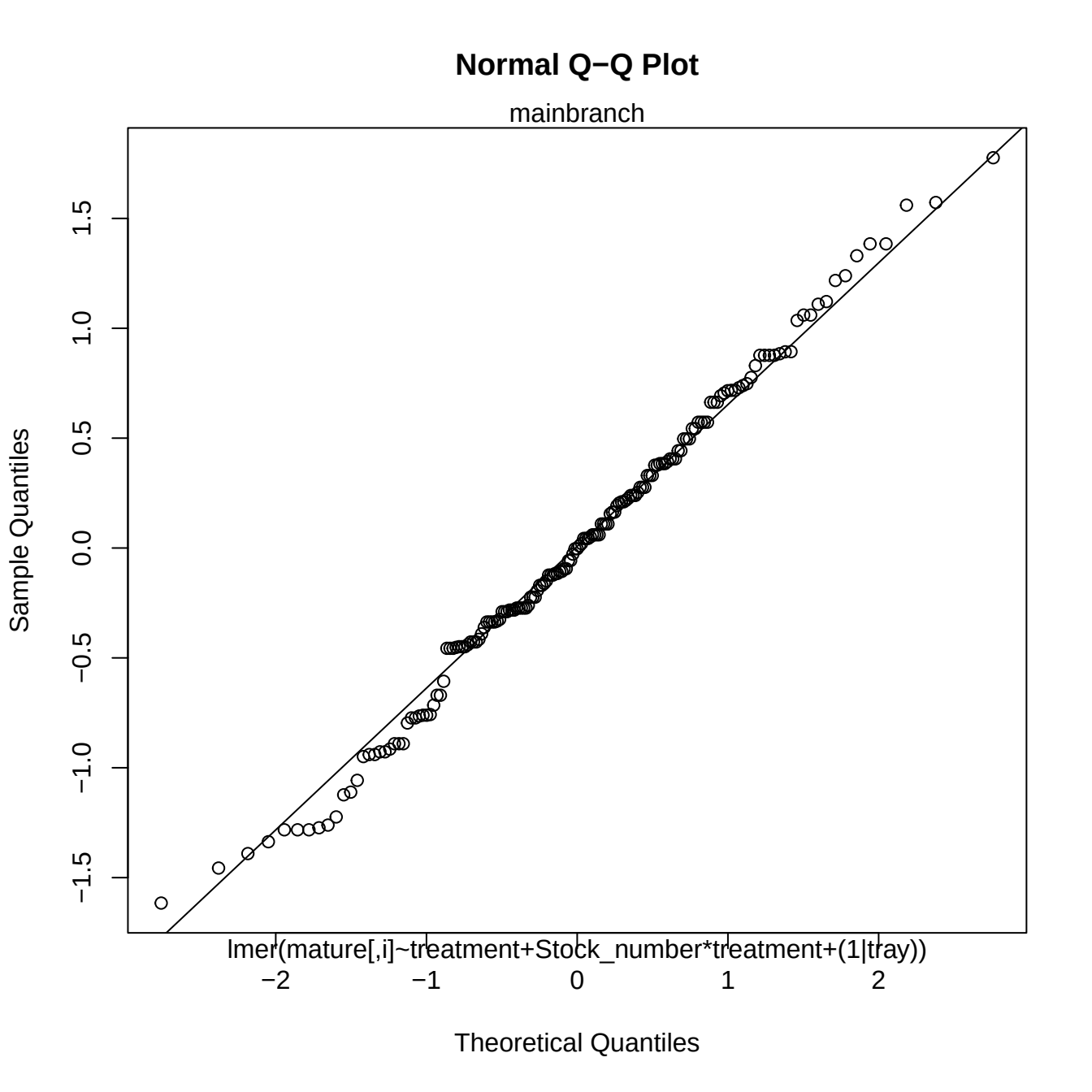

upper.fruit.length
resid(mod)
0.2
0.0
−0.2
−0.4
−0.6
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
1.80
1.85
1.90
1.95
2.00
2.05
fitted(mod)

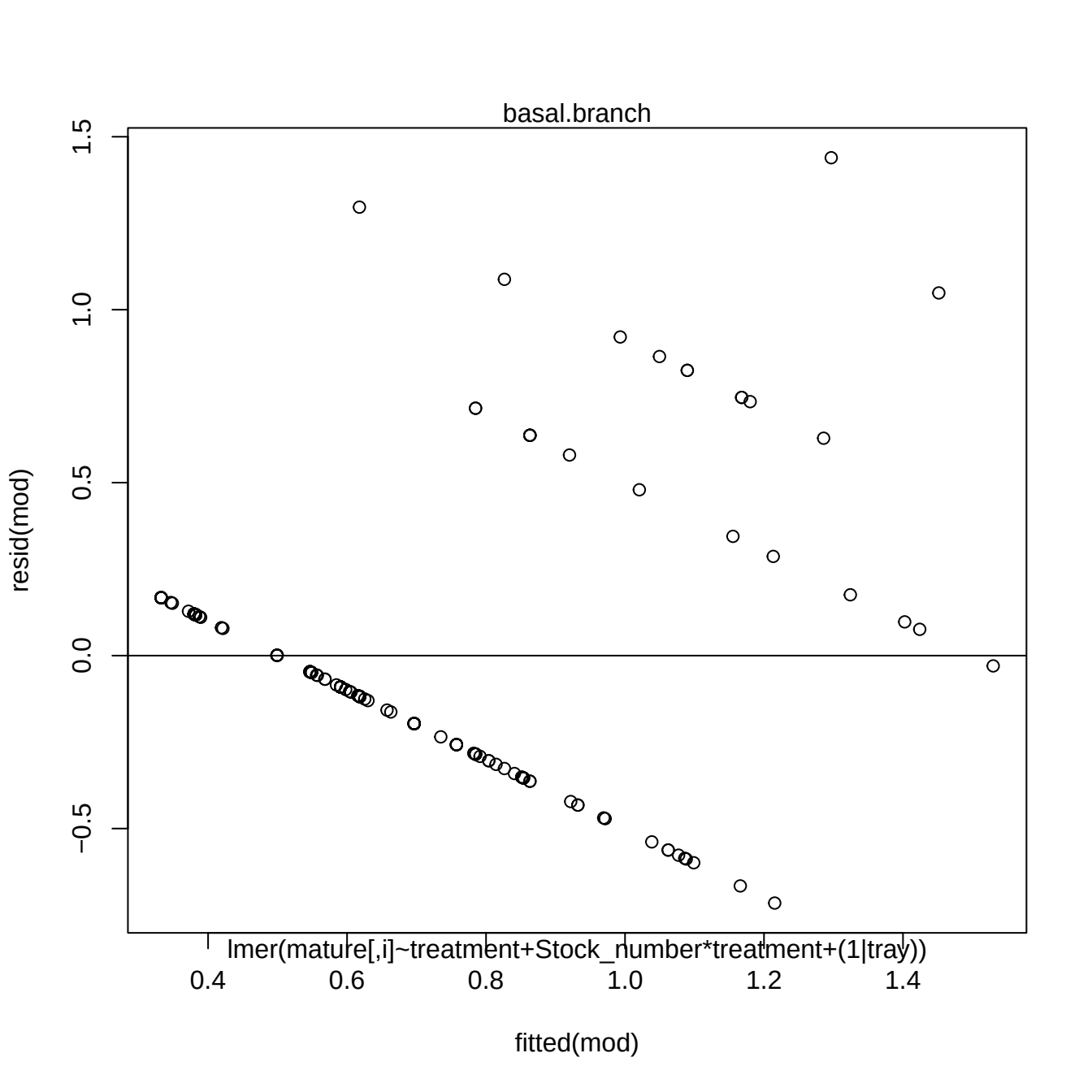

Normal Q−Q Plot
upper.fruit.length
Sample Quantiles
0.2
0.0
−0.2
−0.4
−0.6
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

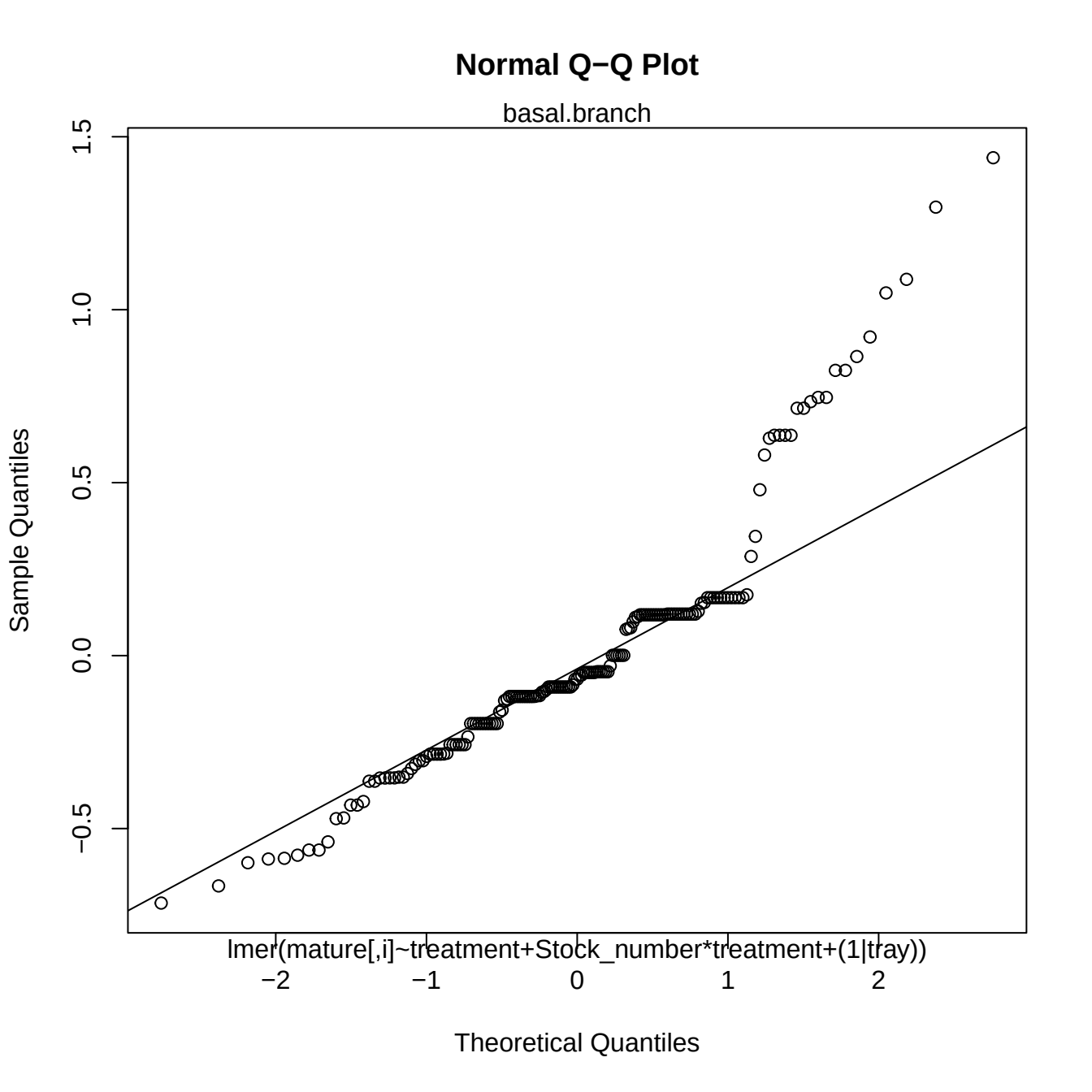

inflorescence.height
resid(mod)
0.2
0.0
−0.2
−0.4
−0.6
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
2.1
2.2
2.3
2.4
fitted(mod)

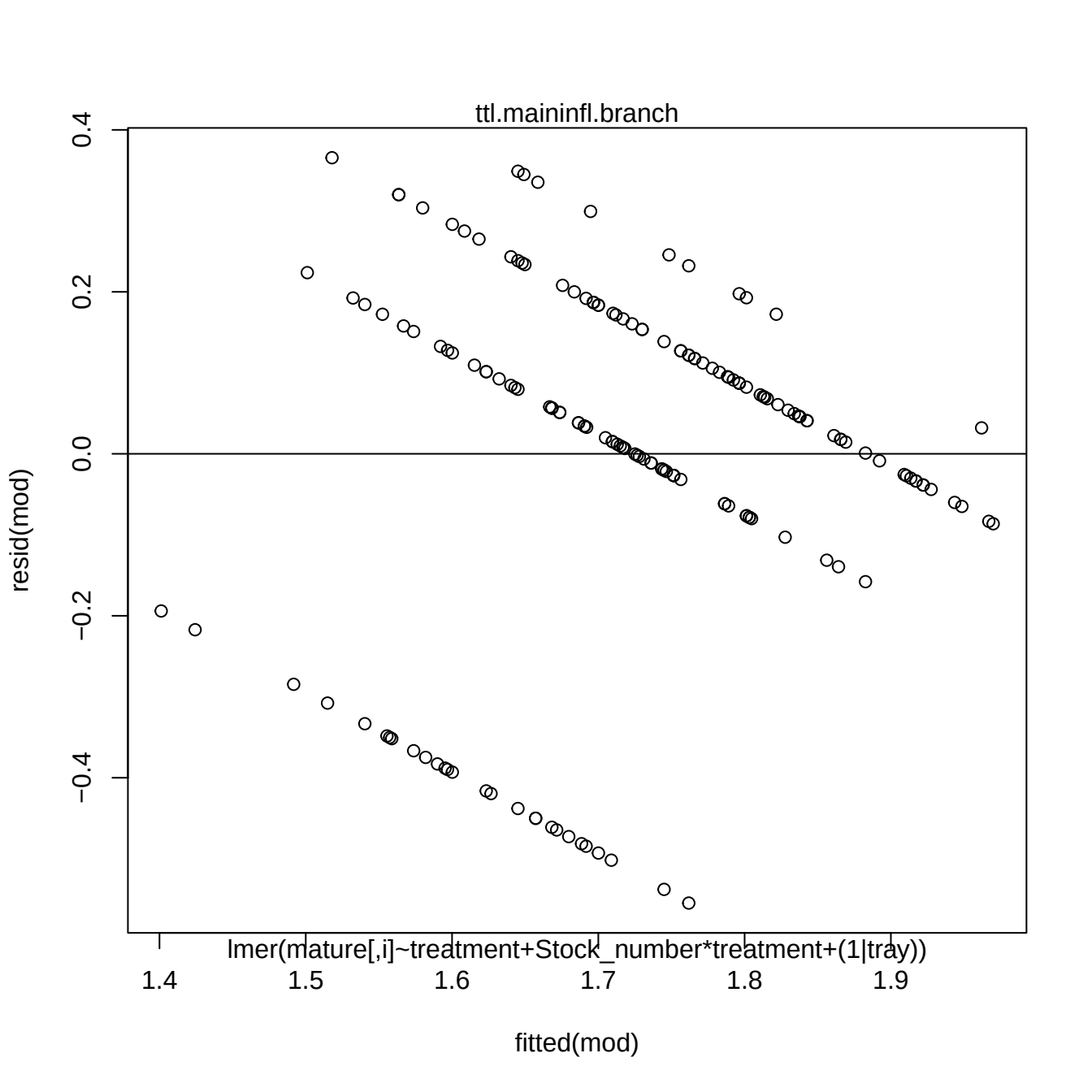

Normal Q−Q Plot
inflorescence.height
Sample Quantiles
0.2
0.0
−0.2
−0.4
−0.6
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

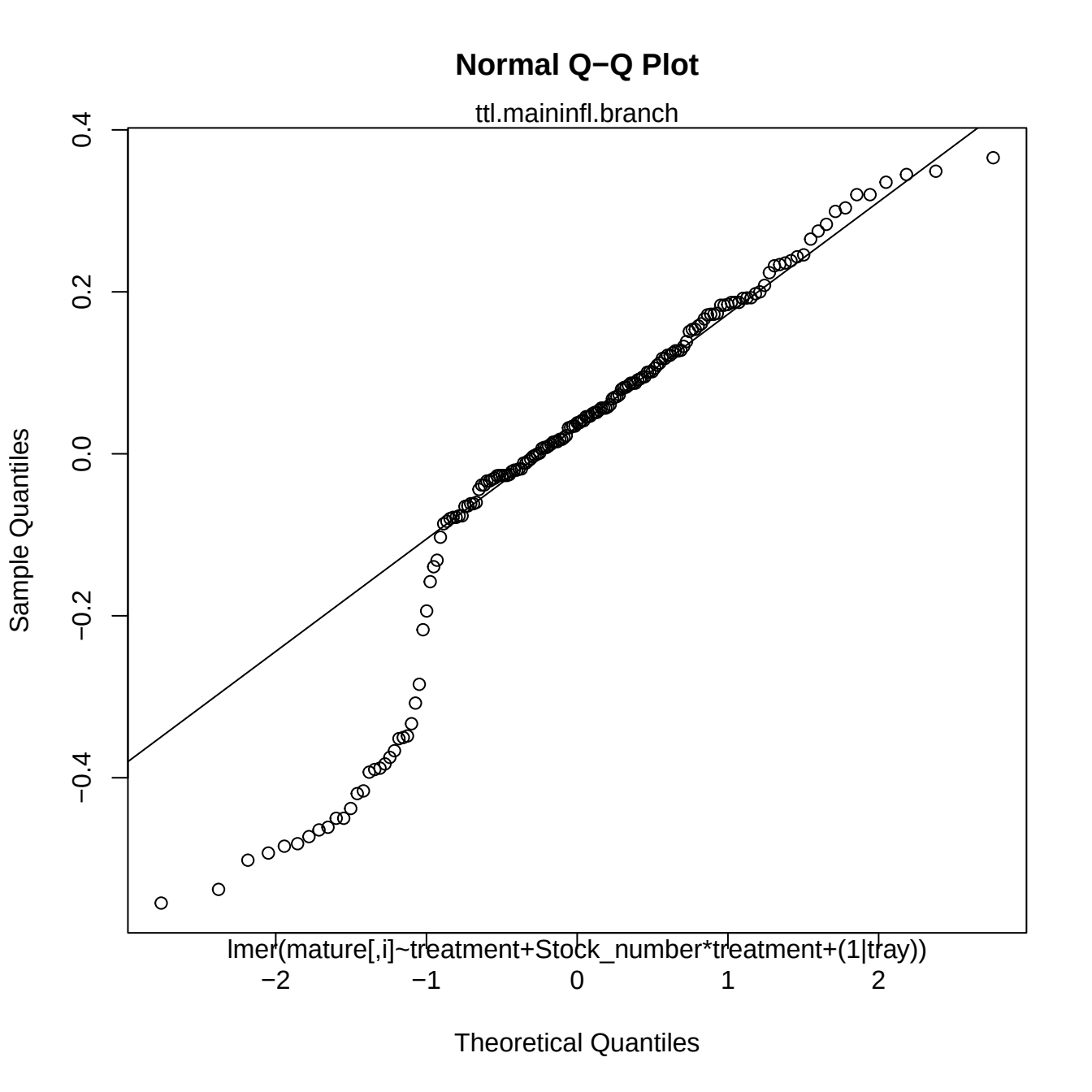

mainbranch
resid(mod)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
0.5
1.0
1.5
2.0
2.5
fitted(mod)

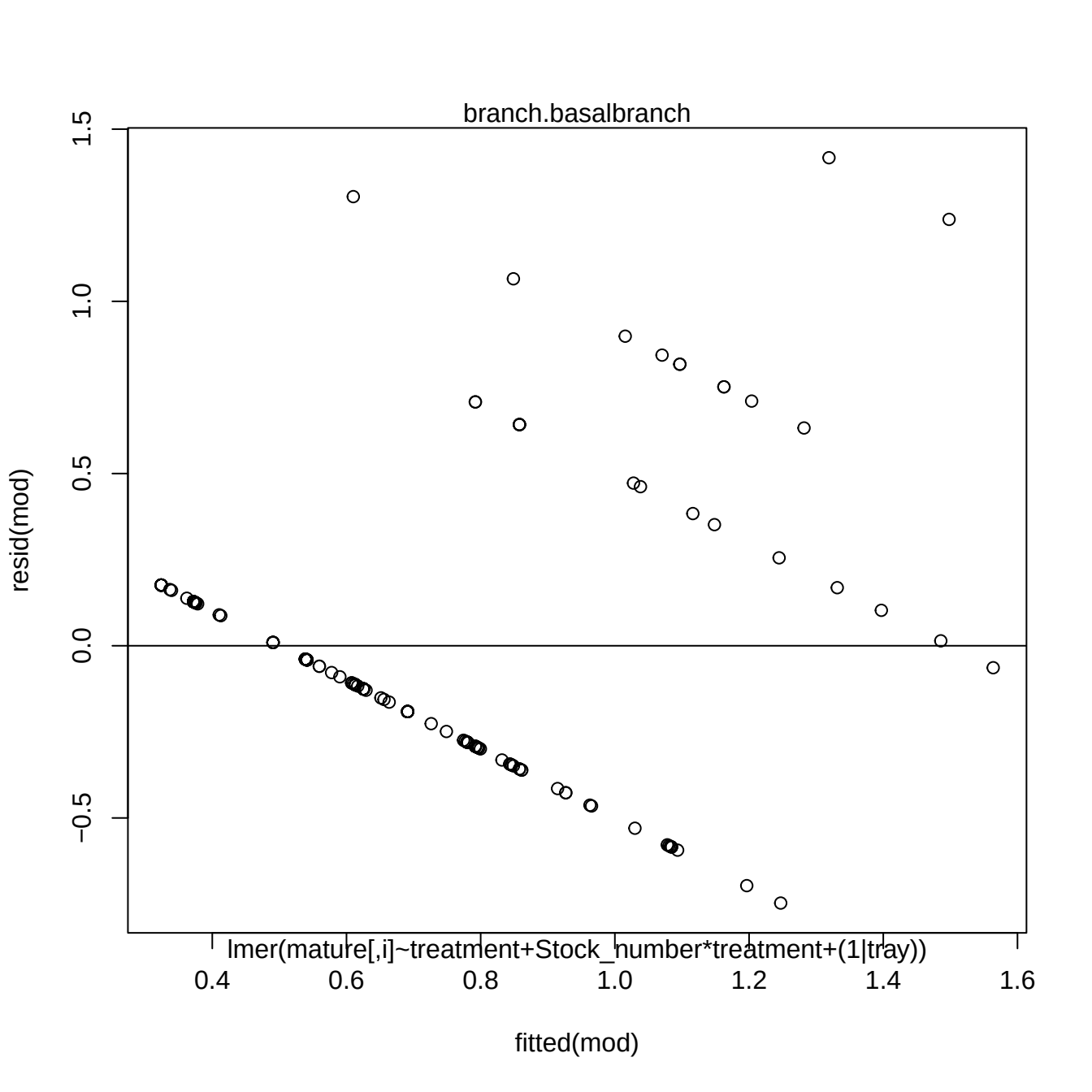

Normal Q−Q Plot
mainbranch
Sample Quantiles
−1.5
−1.0
−0.5
0.0
0.5
1.0
1.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

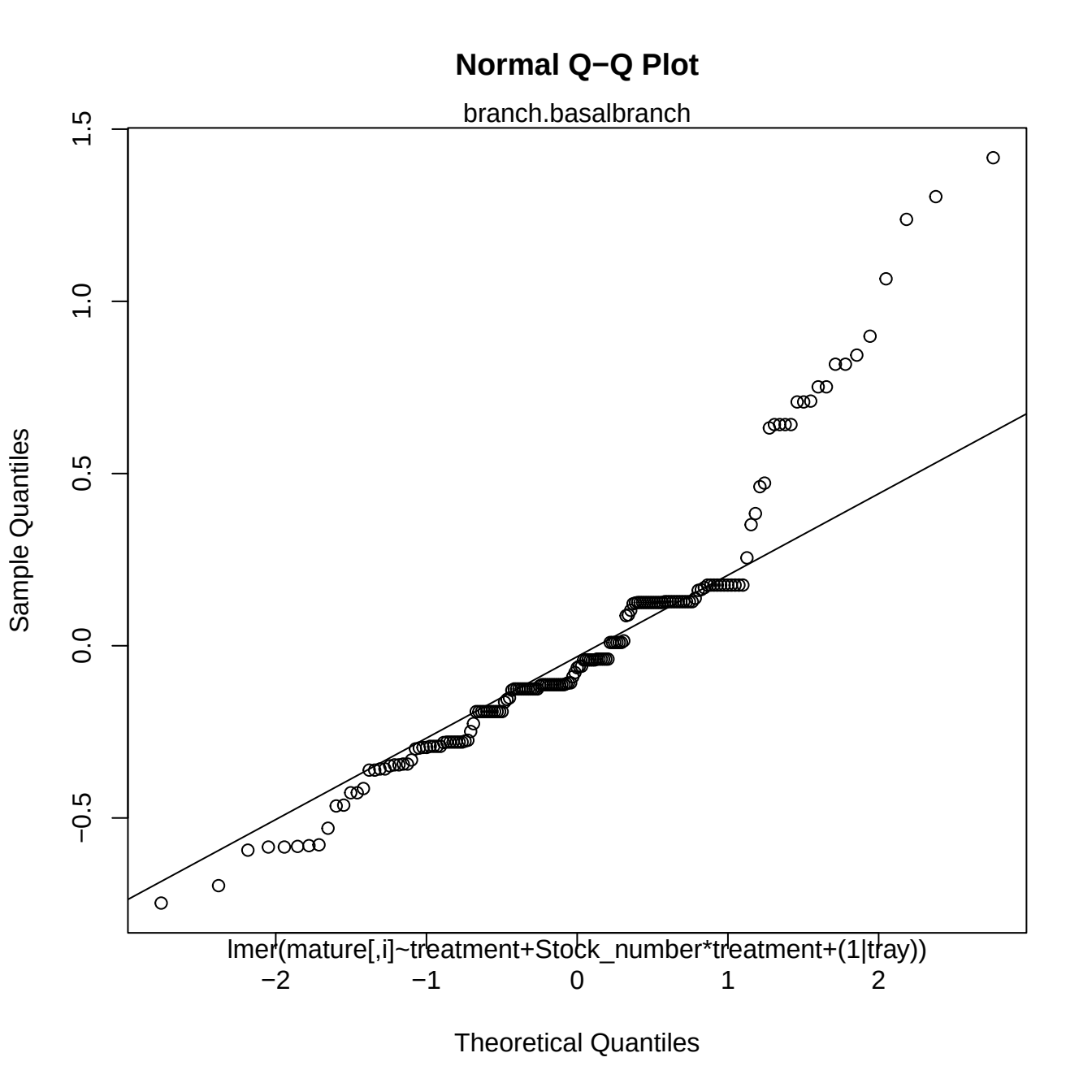

basal.branch
resid(mod)
1.5
1.0
0.5
0.0
−0.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
0.4
0.6
0.8
1.0
1.2
1.4
fitted(mod)

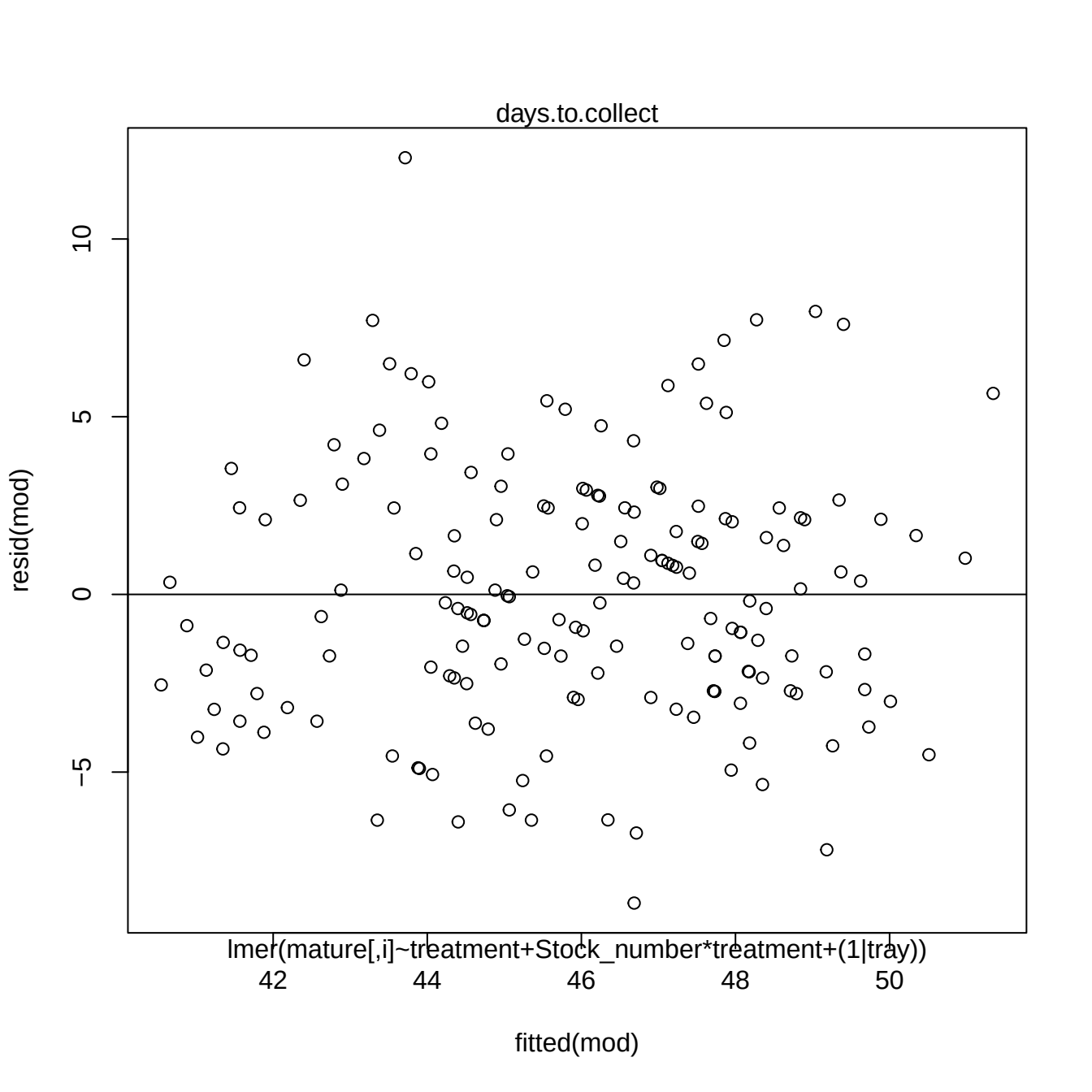

Normal Q−Q Plot
basal.branch
Sample Quantiles
1.5
1.0
0.5
0.0
−0.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

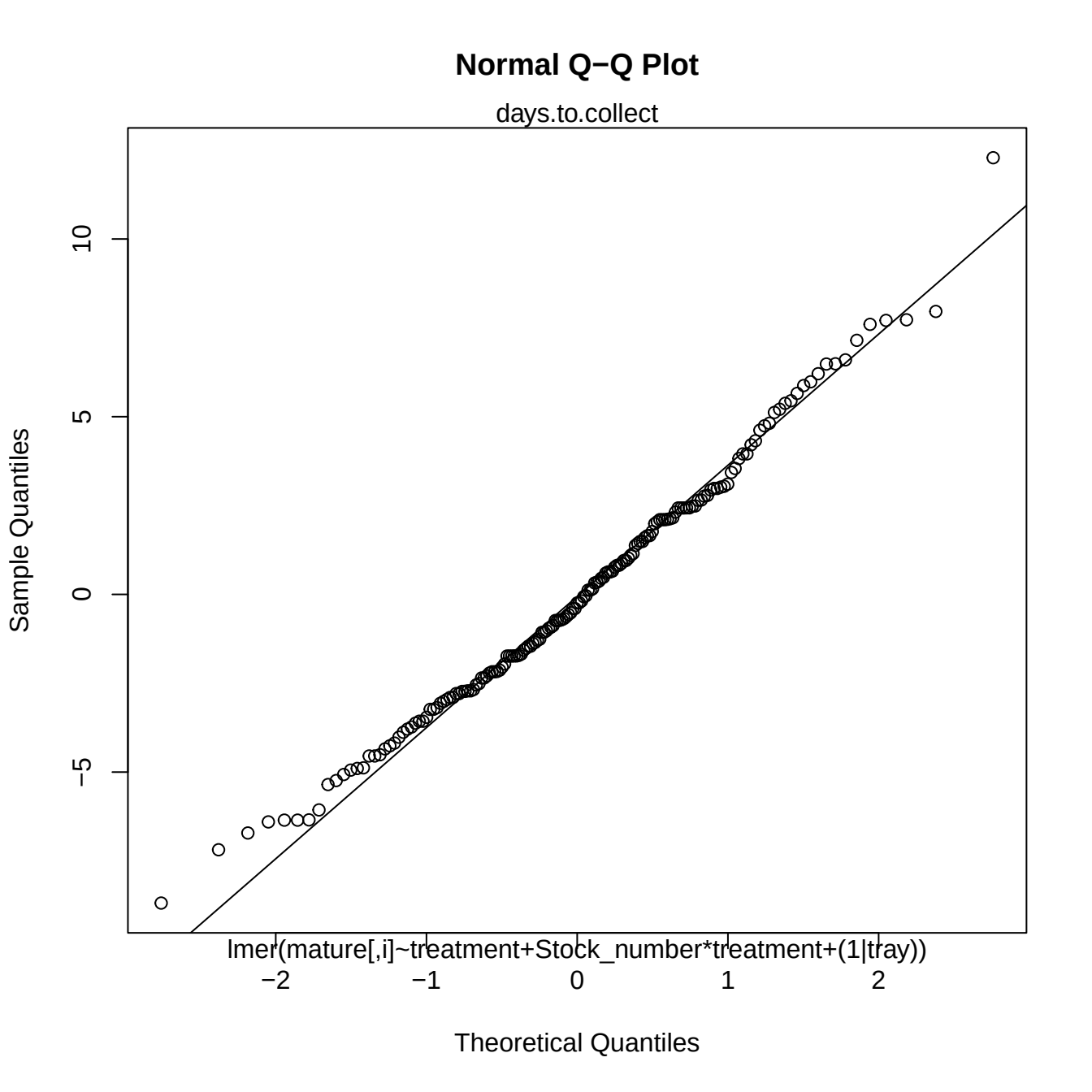

ttl.maininfl.branch
resid(mod)
0.4
0.2
0.0
−0.2
−0.4
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
1.4
1.5
1.6
1.7
1.8
1.9
fitted(mod)

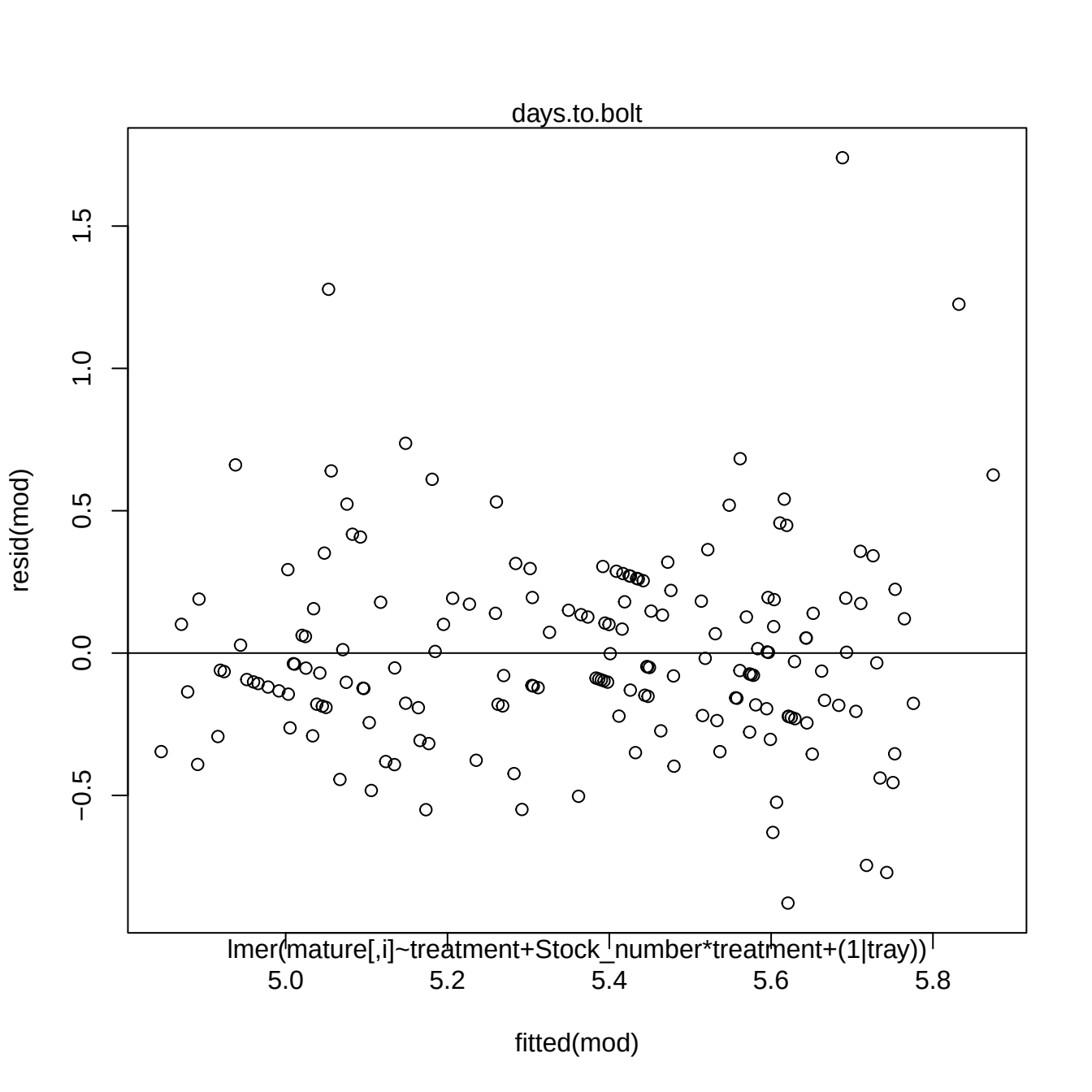

Normal Q−Q Plot
ttl.maininfl.branch
Sample Quantiles
0.4
0.2
0.0
−0.2
−0.4
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

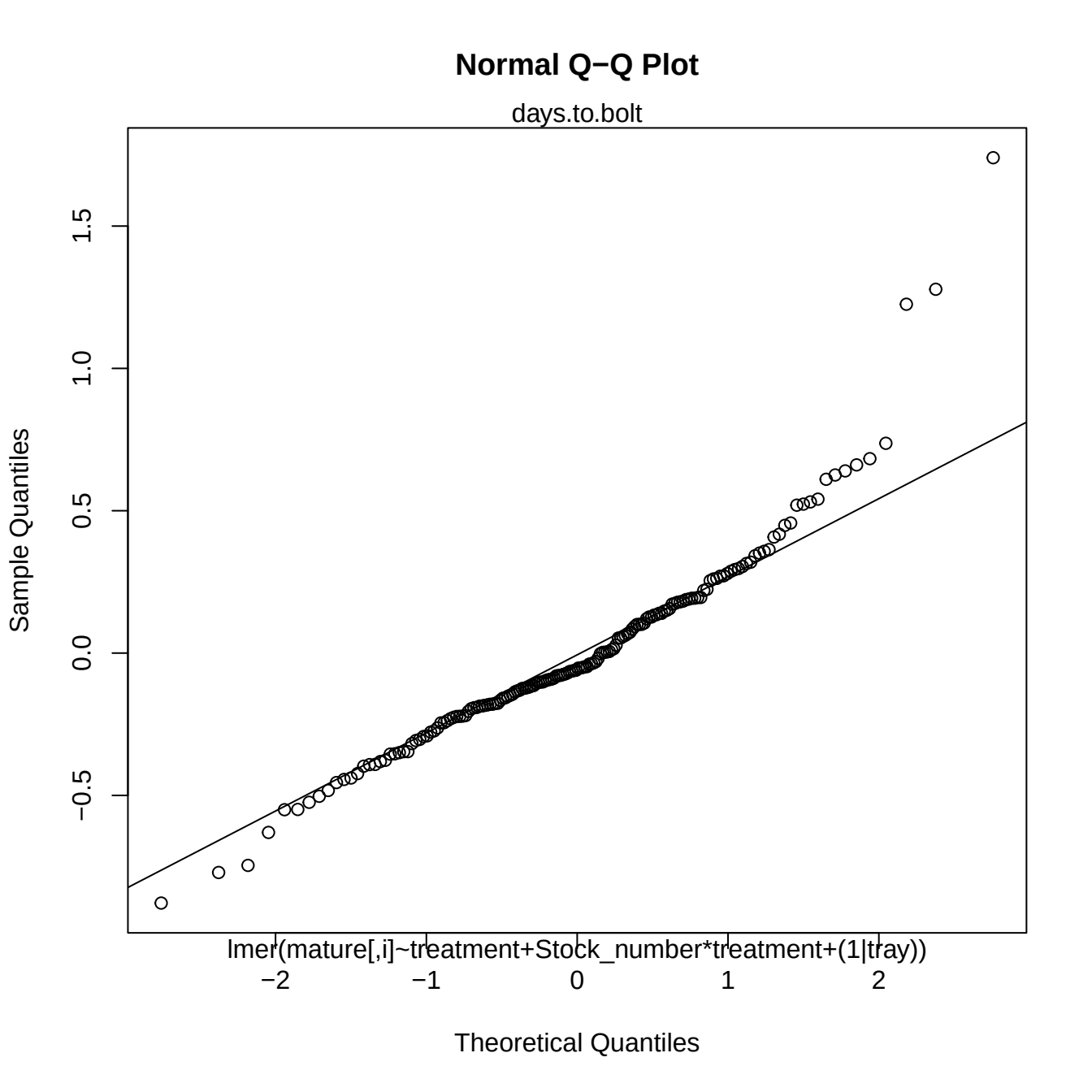

branch.basalbranch
resid(mod)
1.5
1.0
0.5
0.0
−0.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
0.4
0.6
0.8
1.0
1.2
1.4
1.6
fitted(mod)

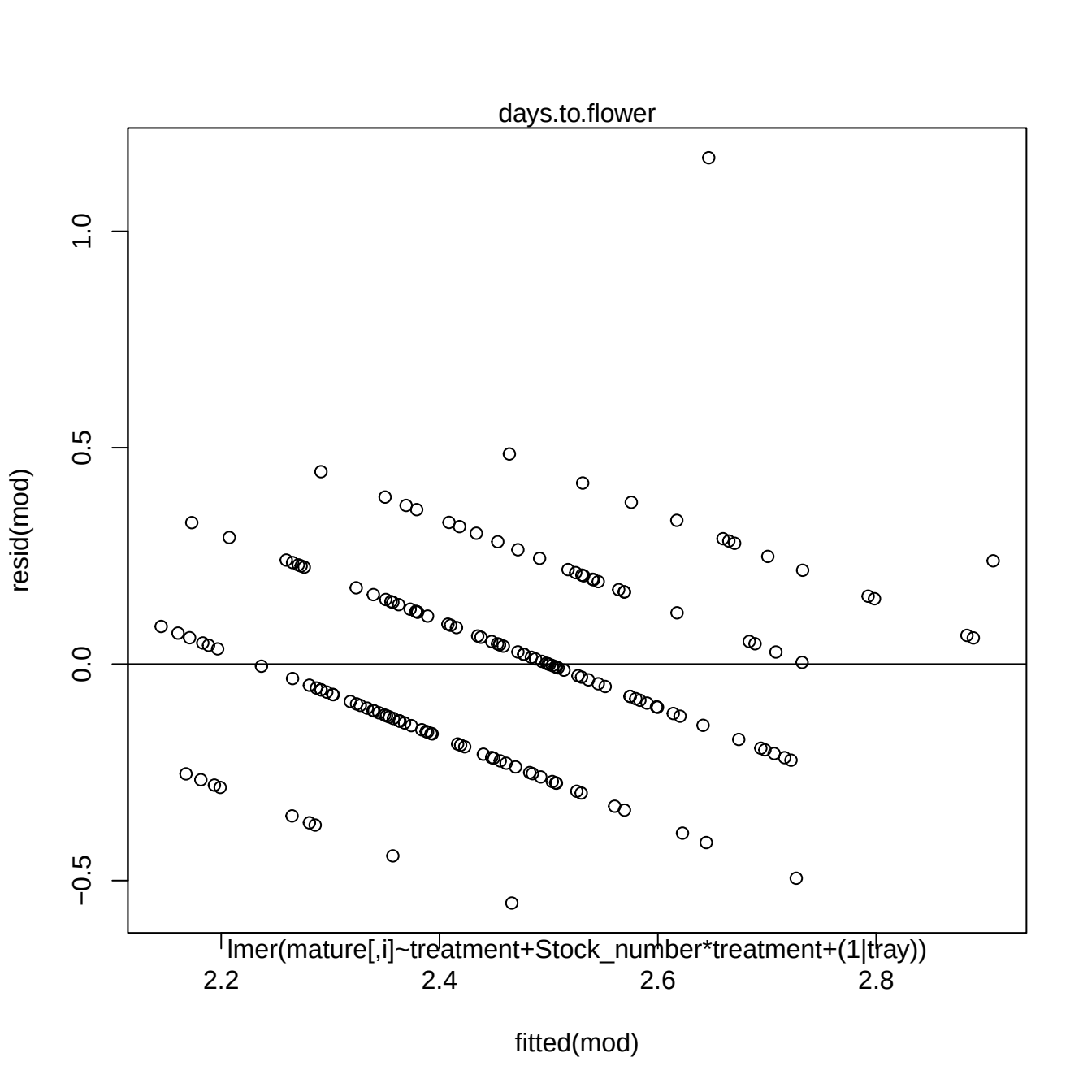

Normal Q−Q Plot
branch.basalbranch
Sample Quantiles
1.5
1.0
0.5
0.0
−0.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

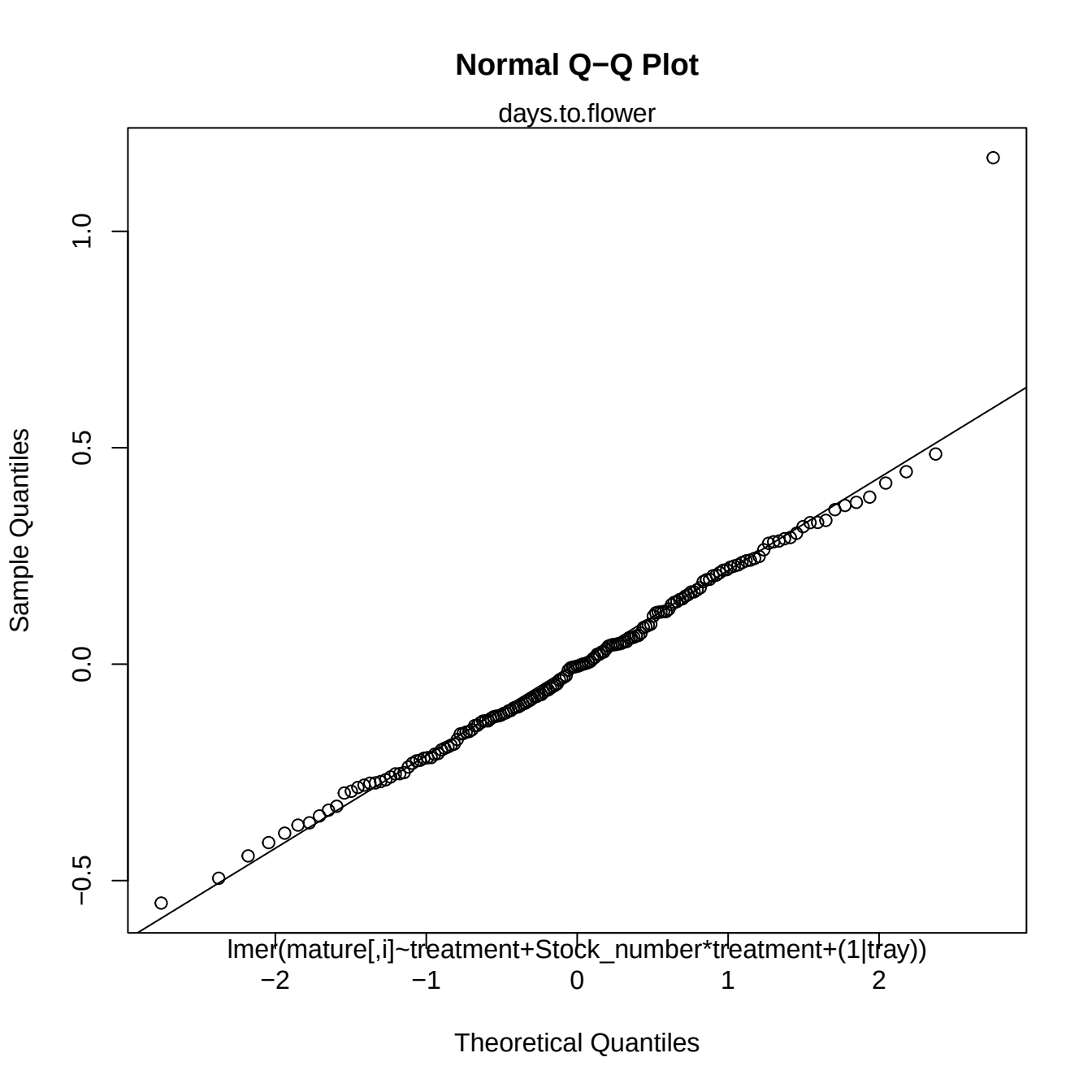

days.to.collect
resid(mod)
10
5
0
−5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
42
44
46
48
50
fitted(mod)

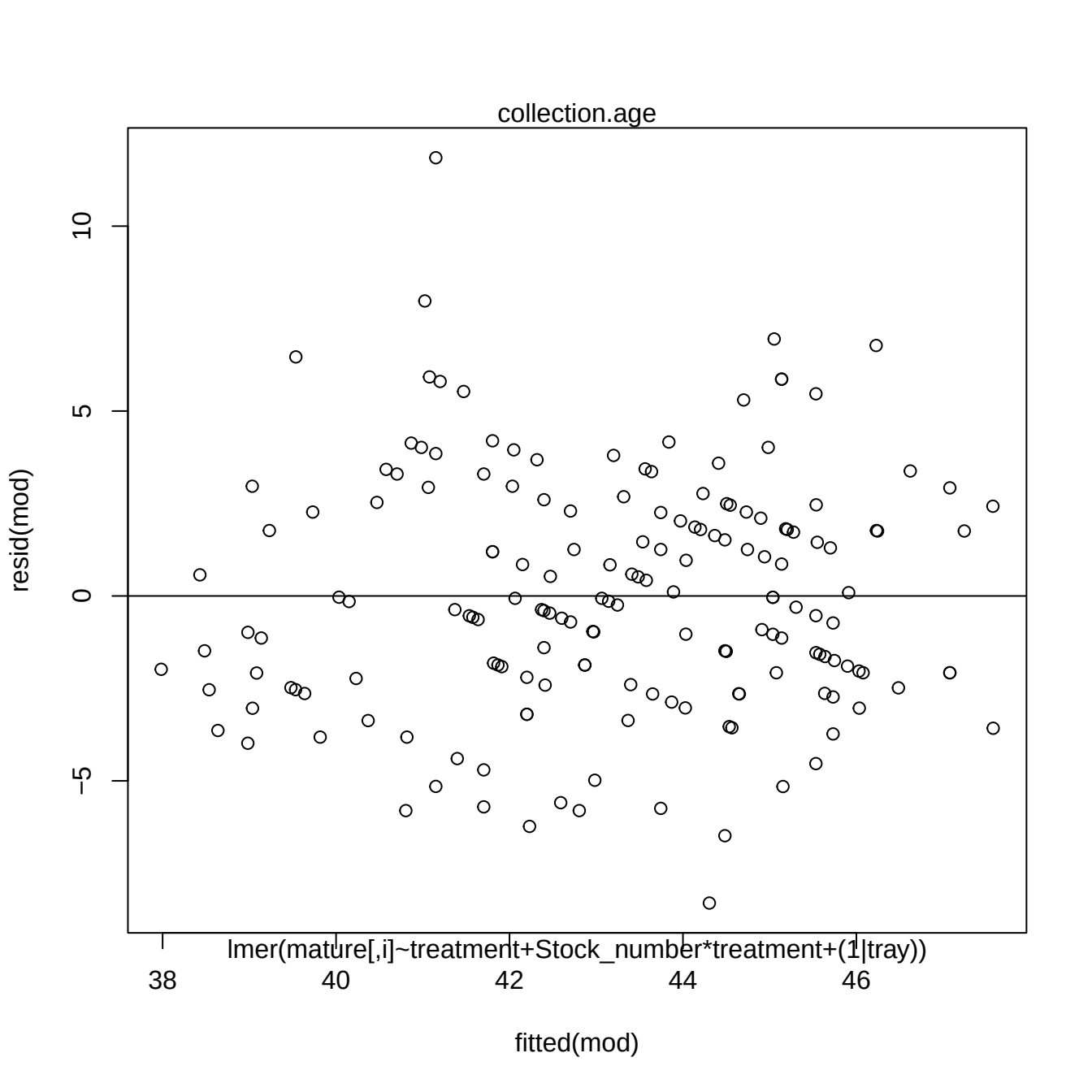

Normal Q−Q Plot
days.to.collect
Sample Quantiles
10
5
0
−5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

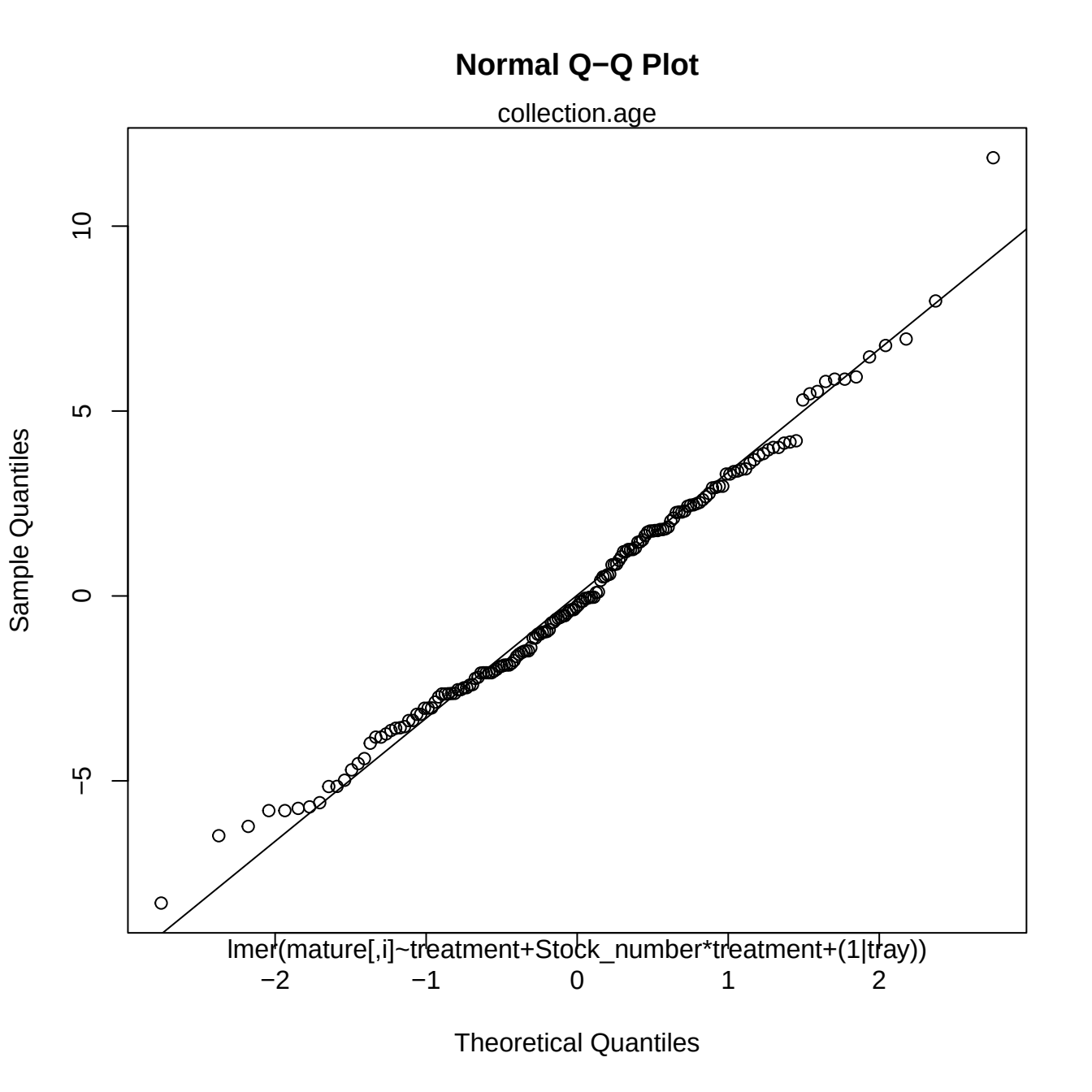

days.to.bolt
resid(mod)
1.5
1.0
0.5
0.0
−0.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
5.0
5.2
5.4
5.6
5.8
fitted(mod)

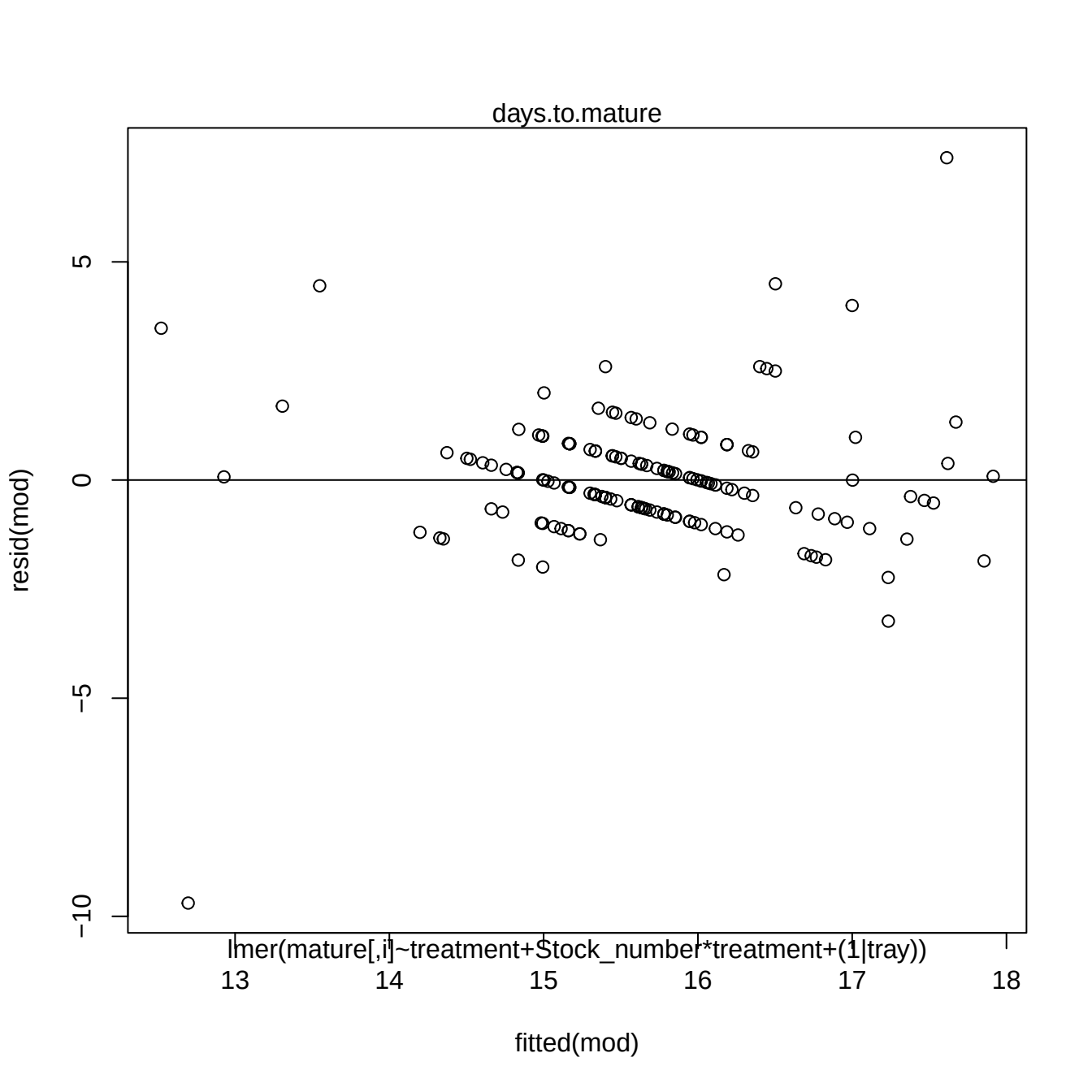

Normal Q−Q Plot
days.to.bolt
Sample Quantiles
1.5
1.0
0.5
0.0
−0.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

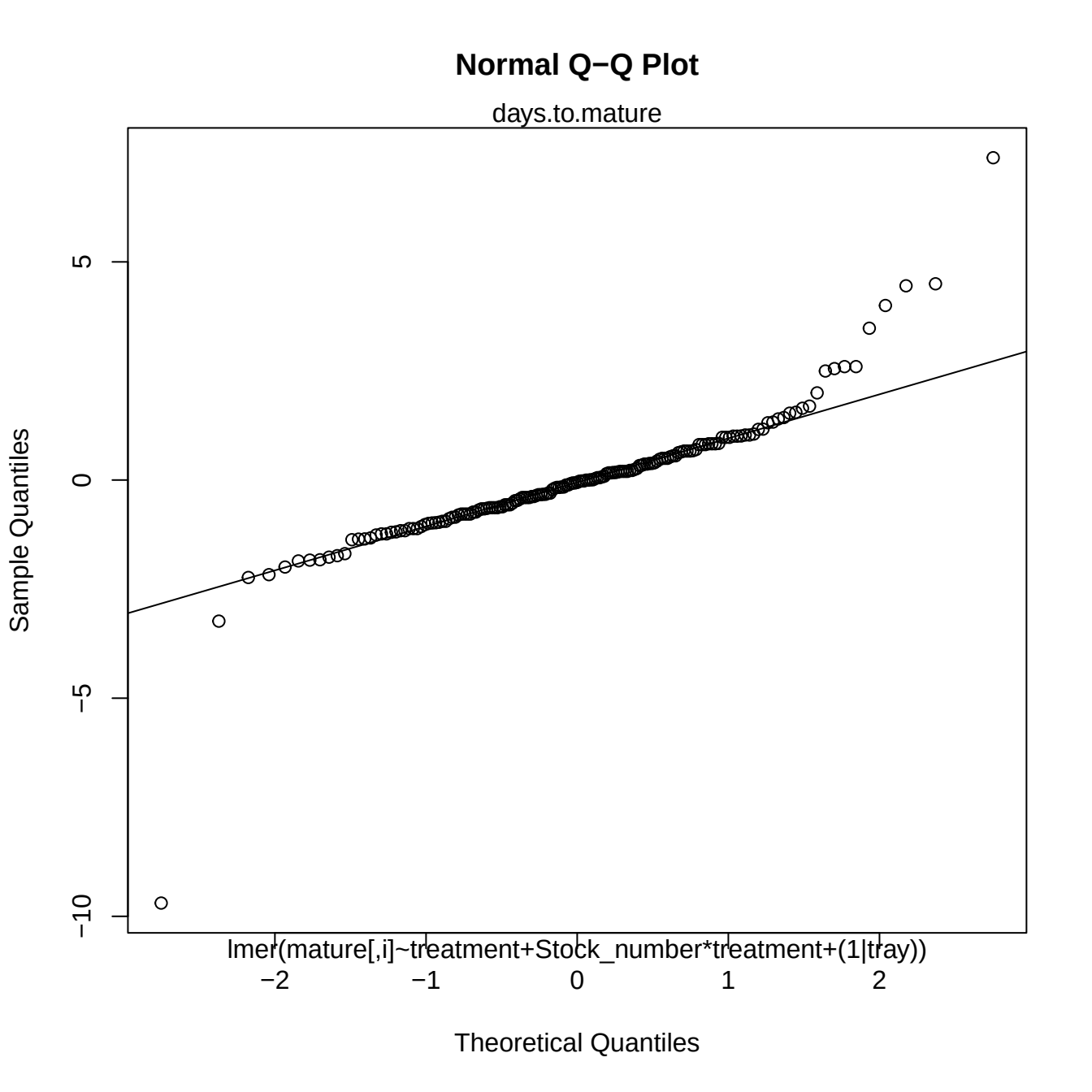

days.to.flower
resid(mod)
1.0
0.5
0.0
−0.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
2.2
2.4
2.6
2.8
fitted(mod)

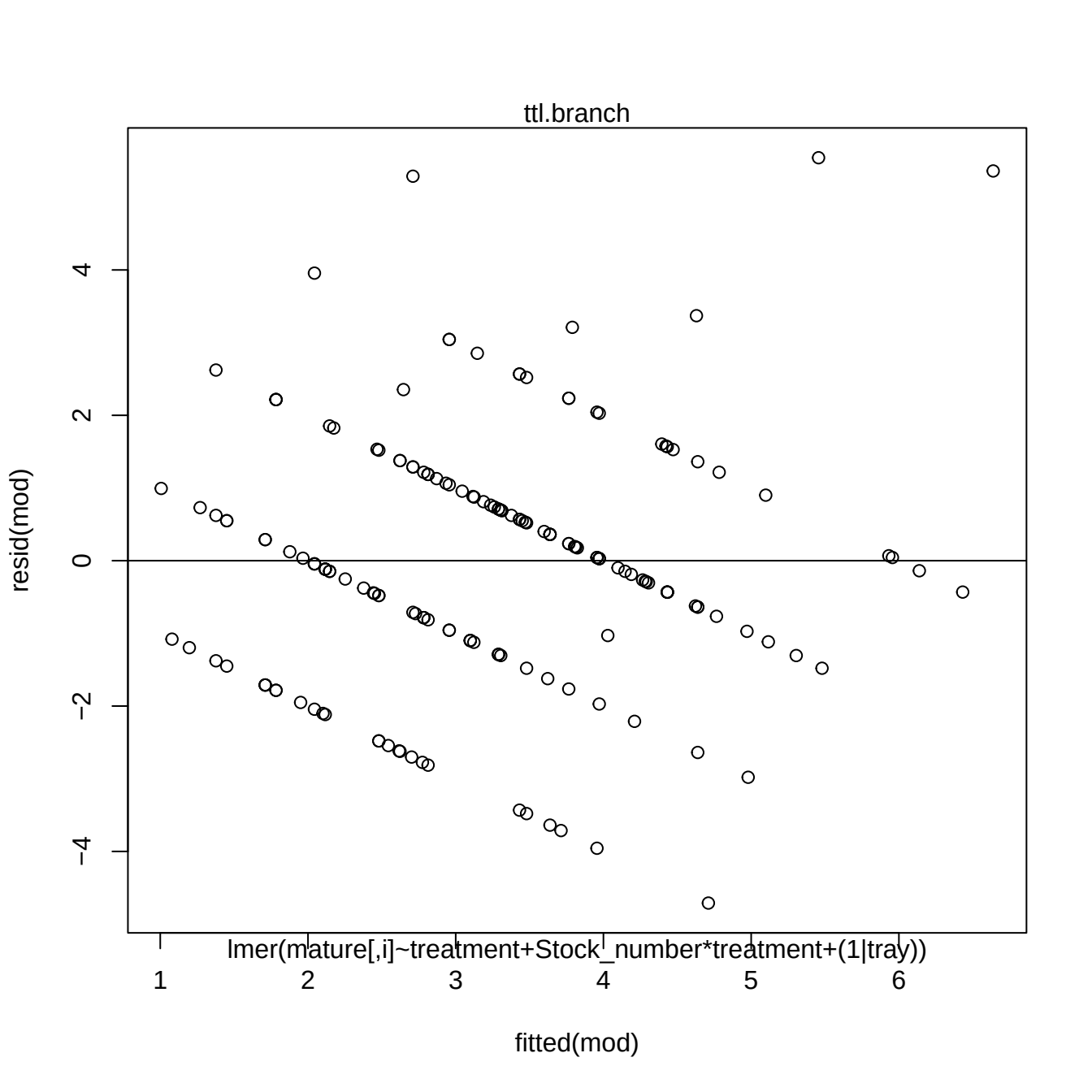

Normal Q−Q Plot
days.to.flower
Sample Quantiles
1.0
0.5
0.0
−0.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

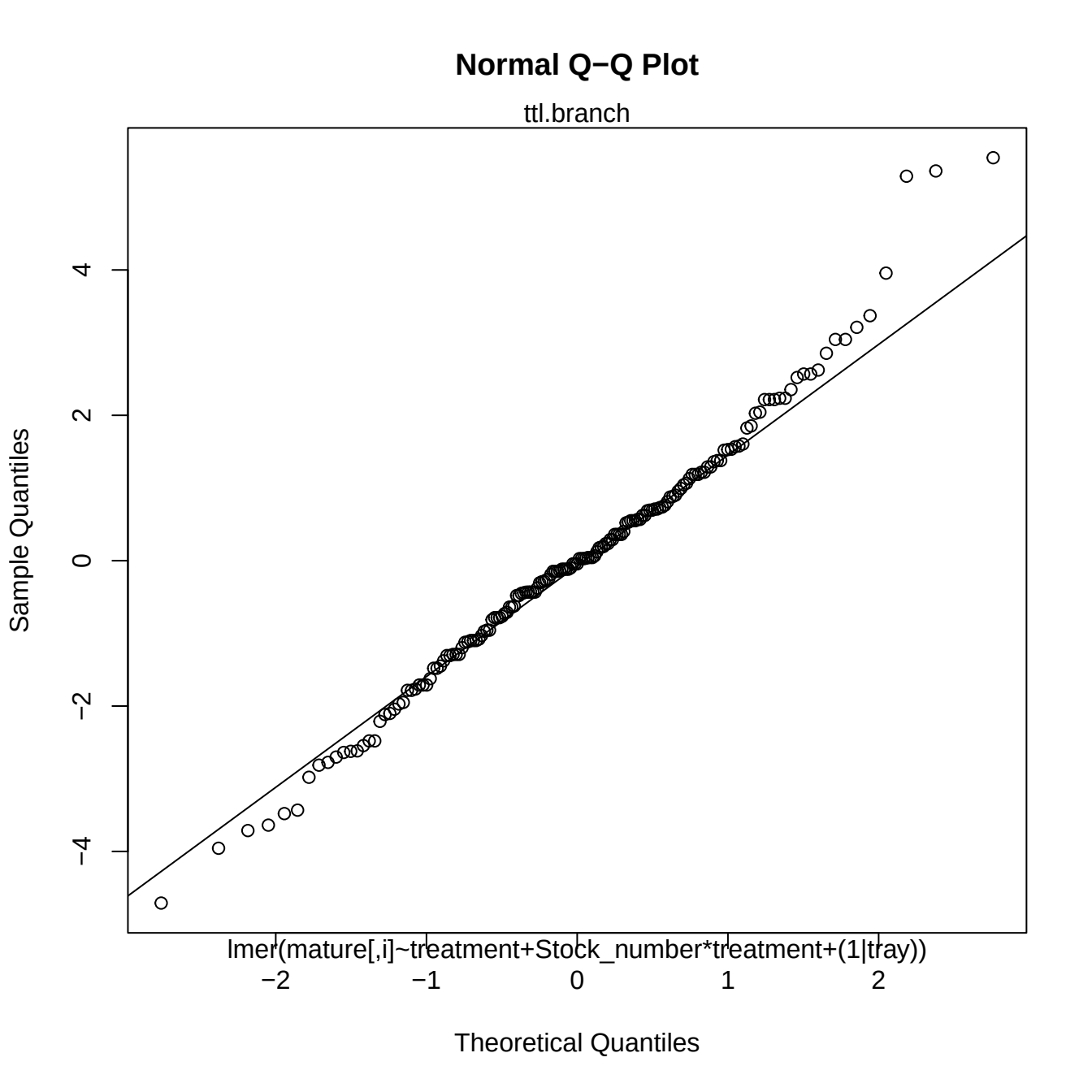

collection.age
resid(mod)
10
5
0
−5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
38
40
42
44
46
fitted(mod)

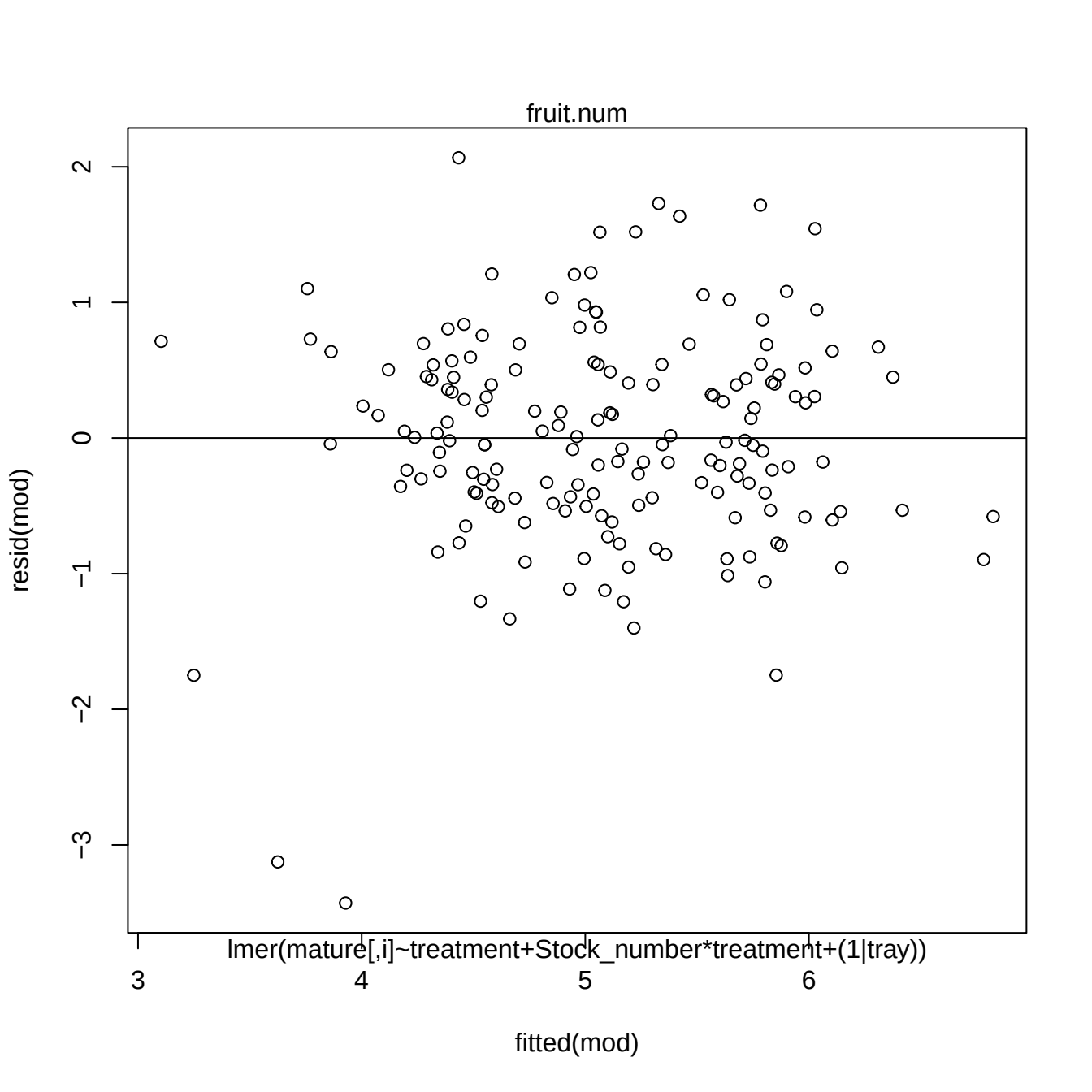

Normal Q−Q Plot
collection.age
Sample Quantiles
10
5
0
−5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

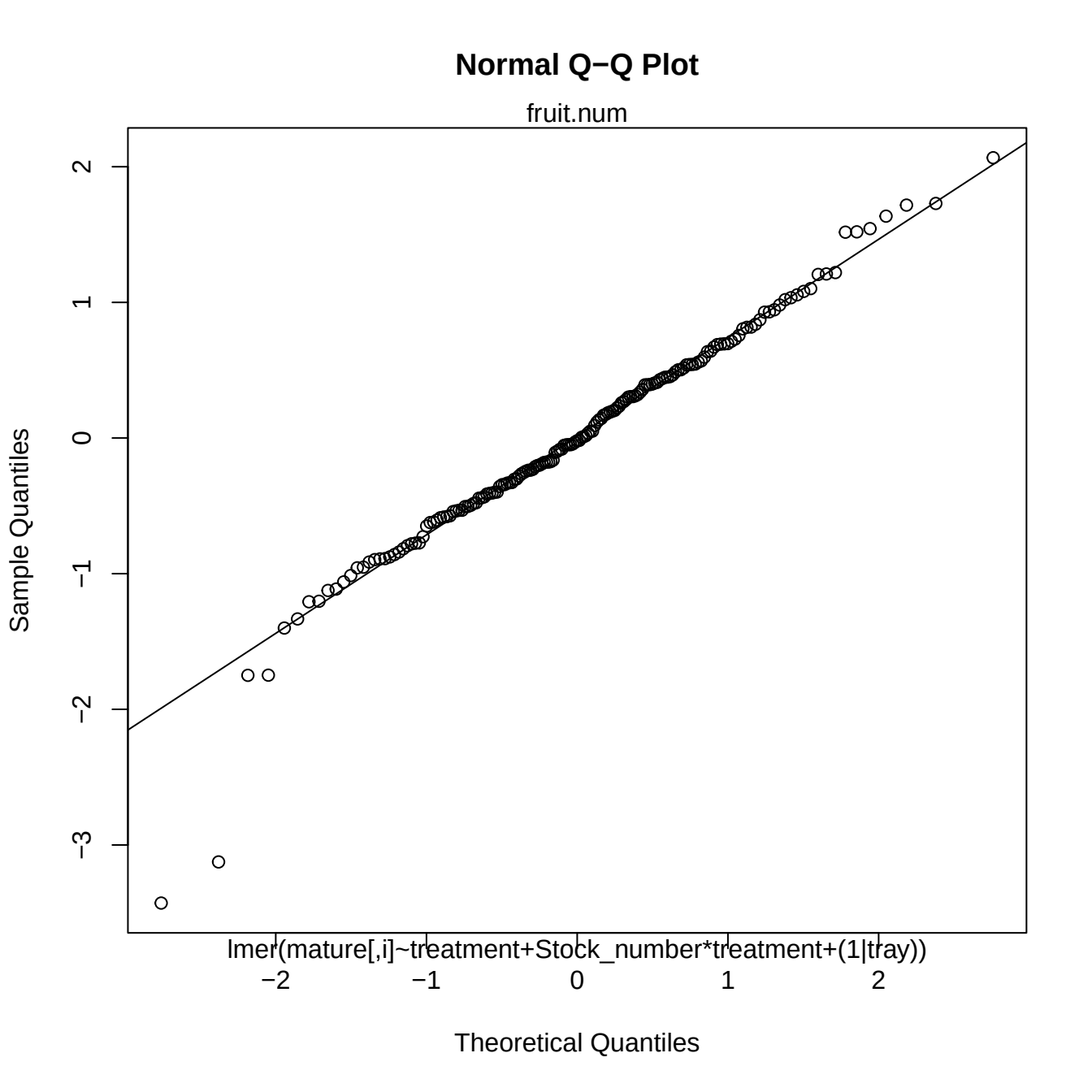

days.to.mature
resid(mod)
5
0
−5
−10
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
13
14
15
16
17
18
fitted(mod)

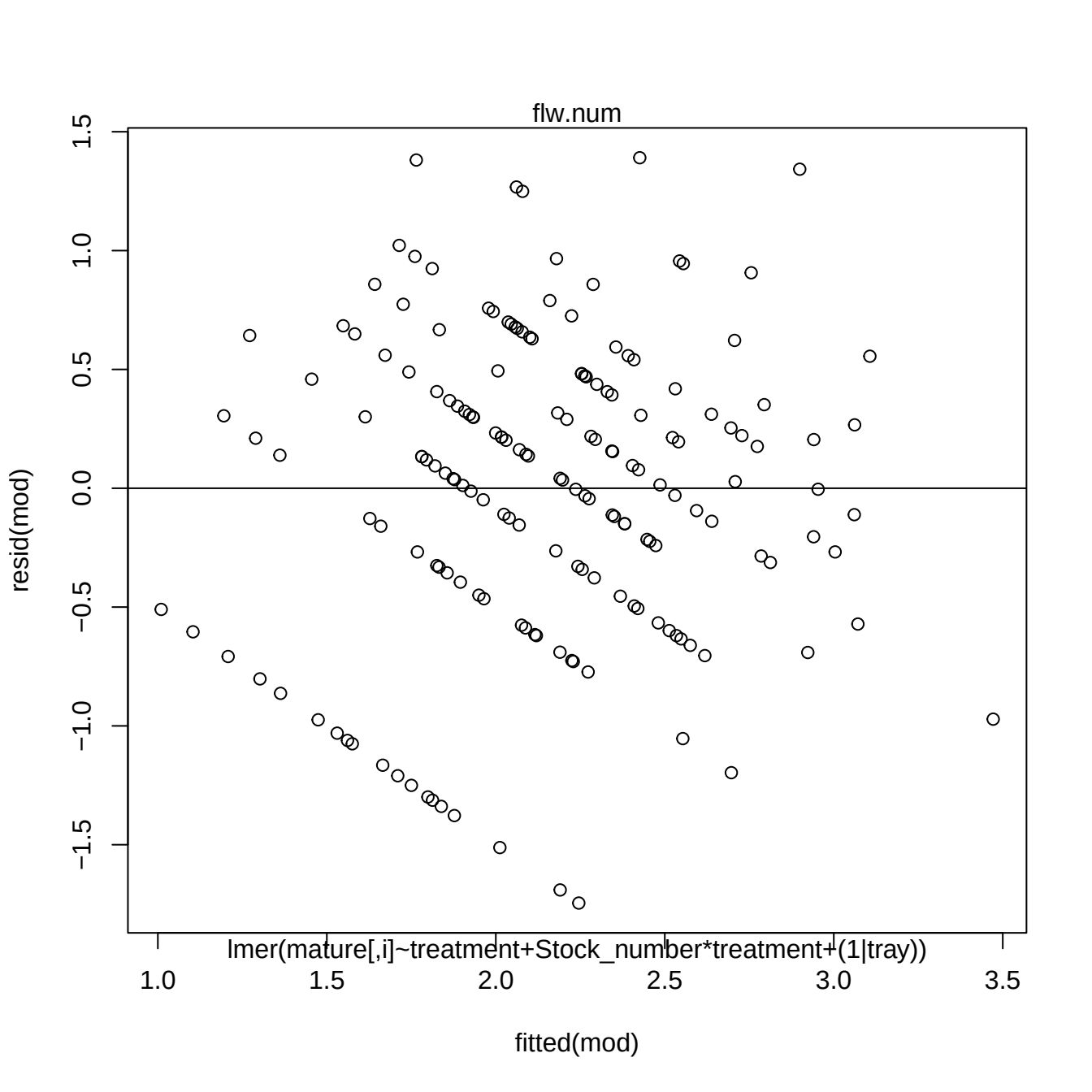

Normal Q−Q Plot
days.to.mature
Sample Quantiles
5
0
−5
−10
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

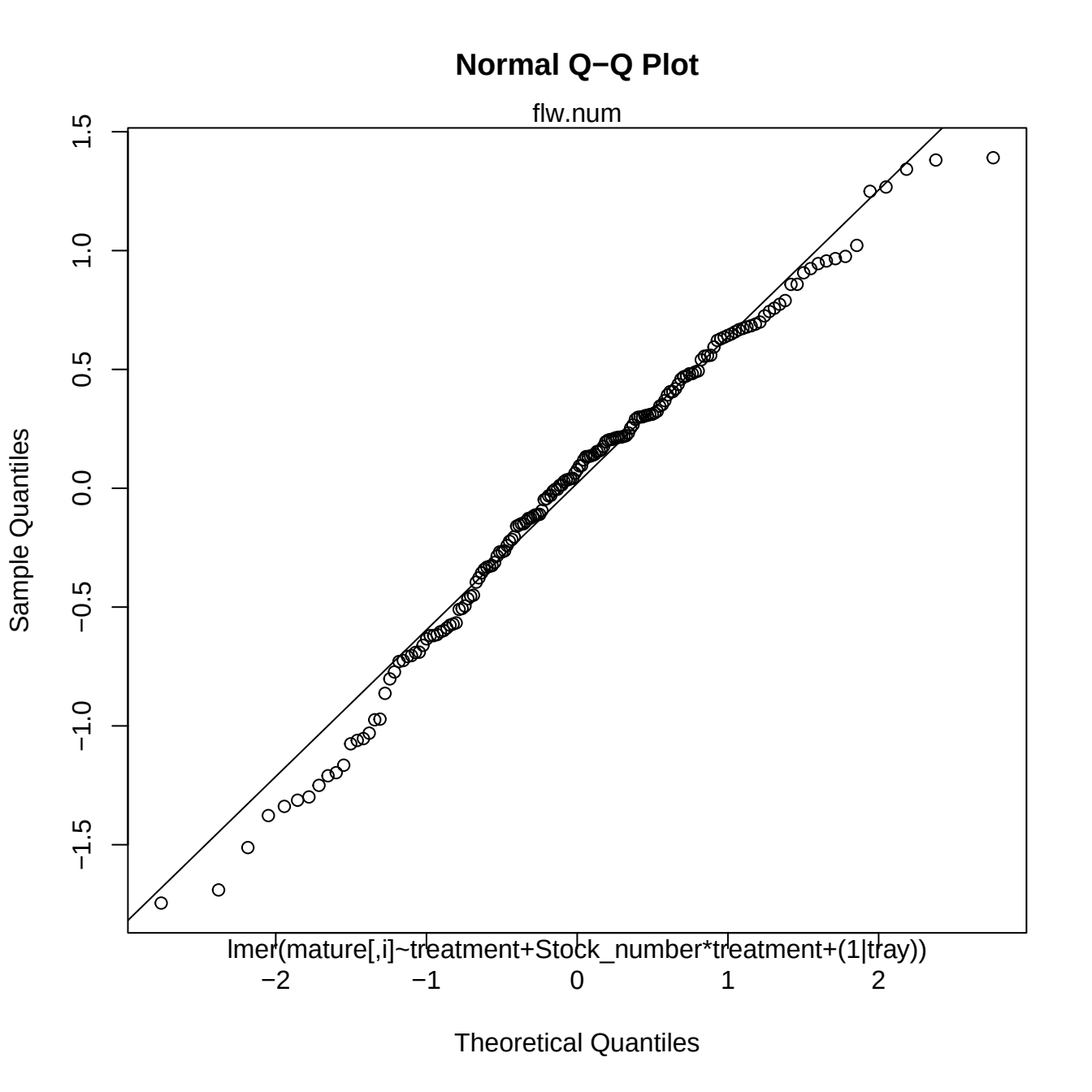

ttl.branch
resid(mod)
4
2
0
−2
−4
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
1
2
3
4
5
6
fitted(mod)

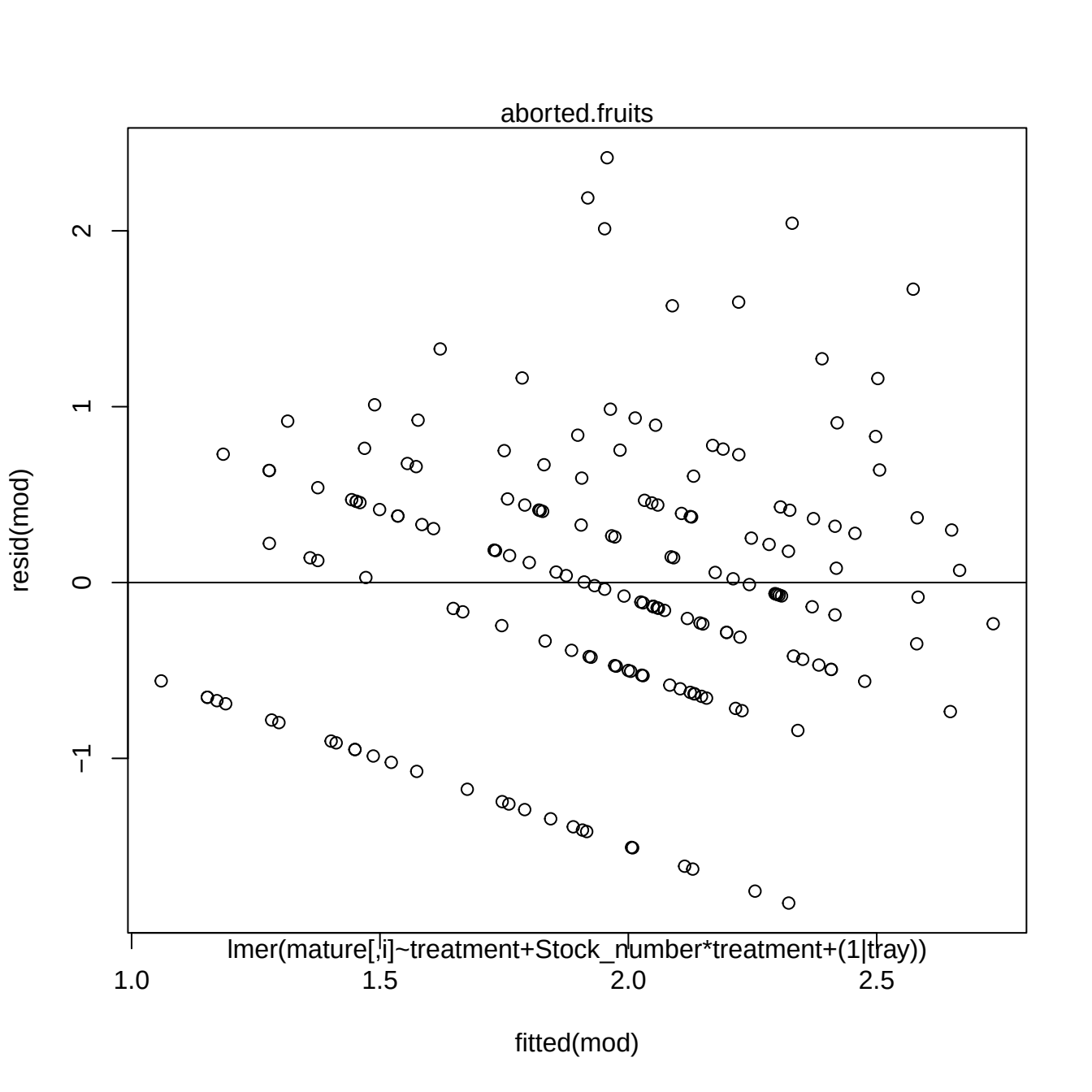

Normal Q−Q Plot
ttl.branch
Sample Quantiles
4
2
0
−2
−4
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

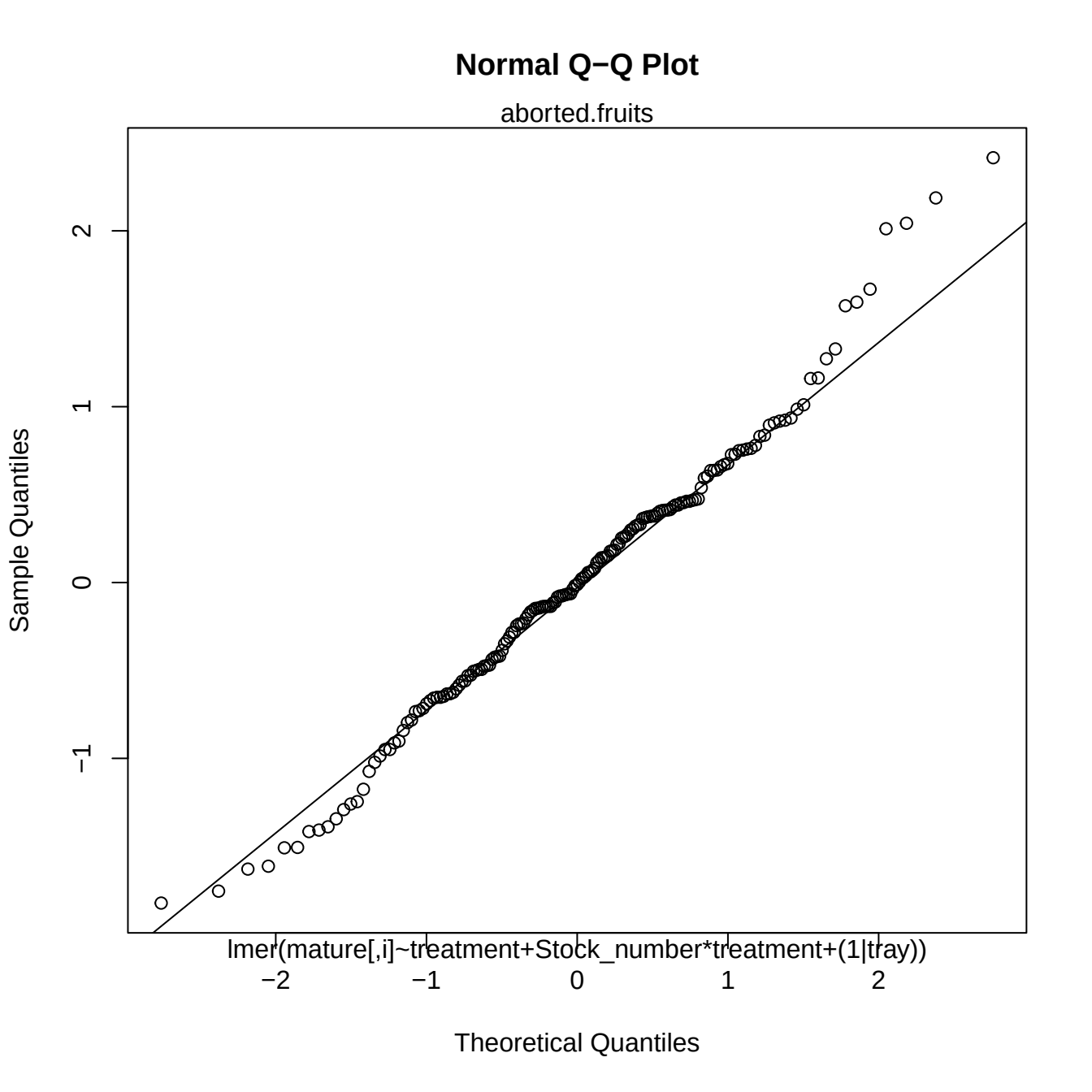

fruit.num
resid(mod)
2
1
0
−1
−2
−3
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
3
4
5
6
fitted(mod)

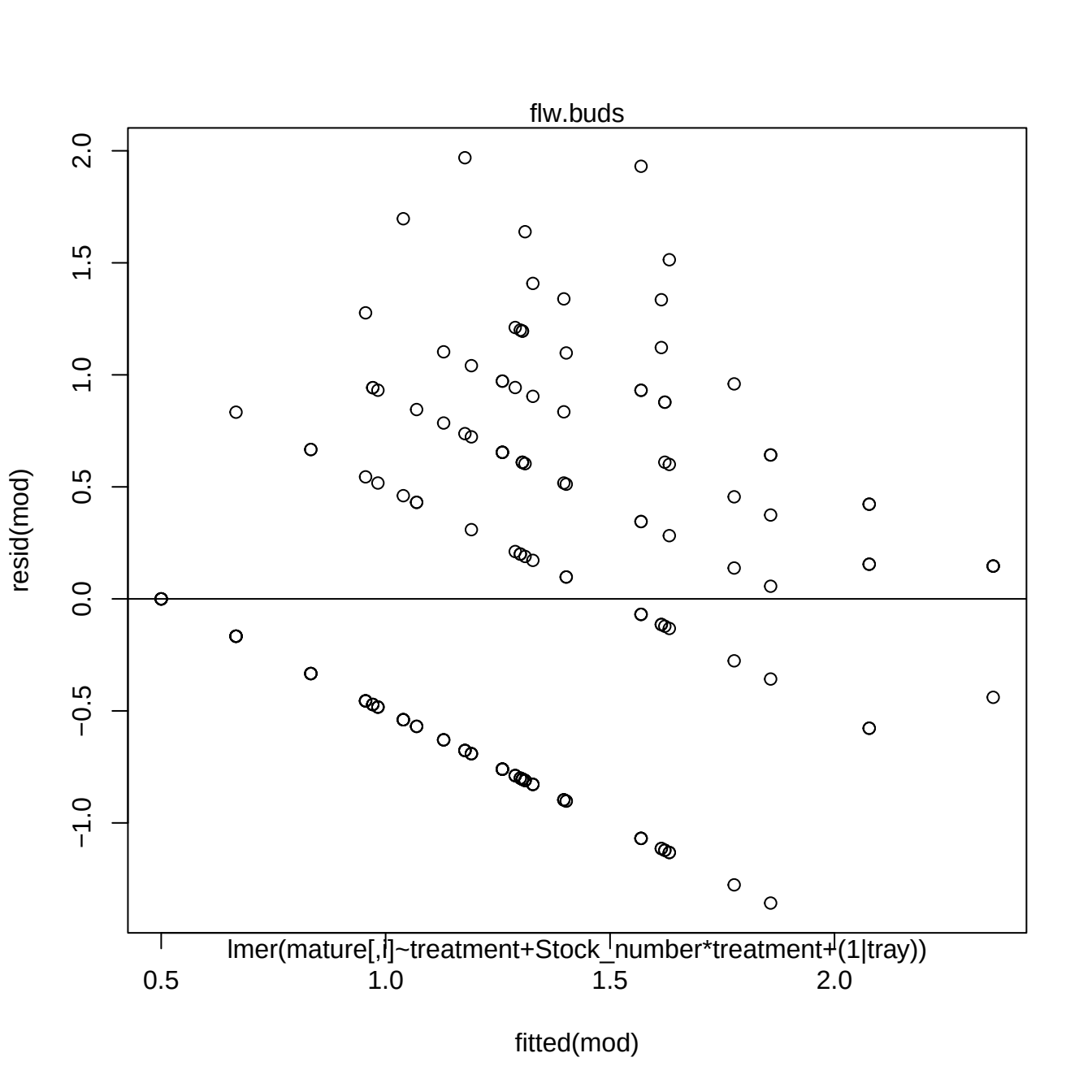

Normal Q−Q Plot
fruit.num
Sample Quantiles
2
1
0
−1
−2
−3
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

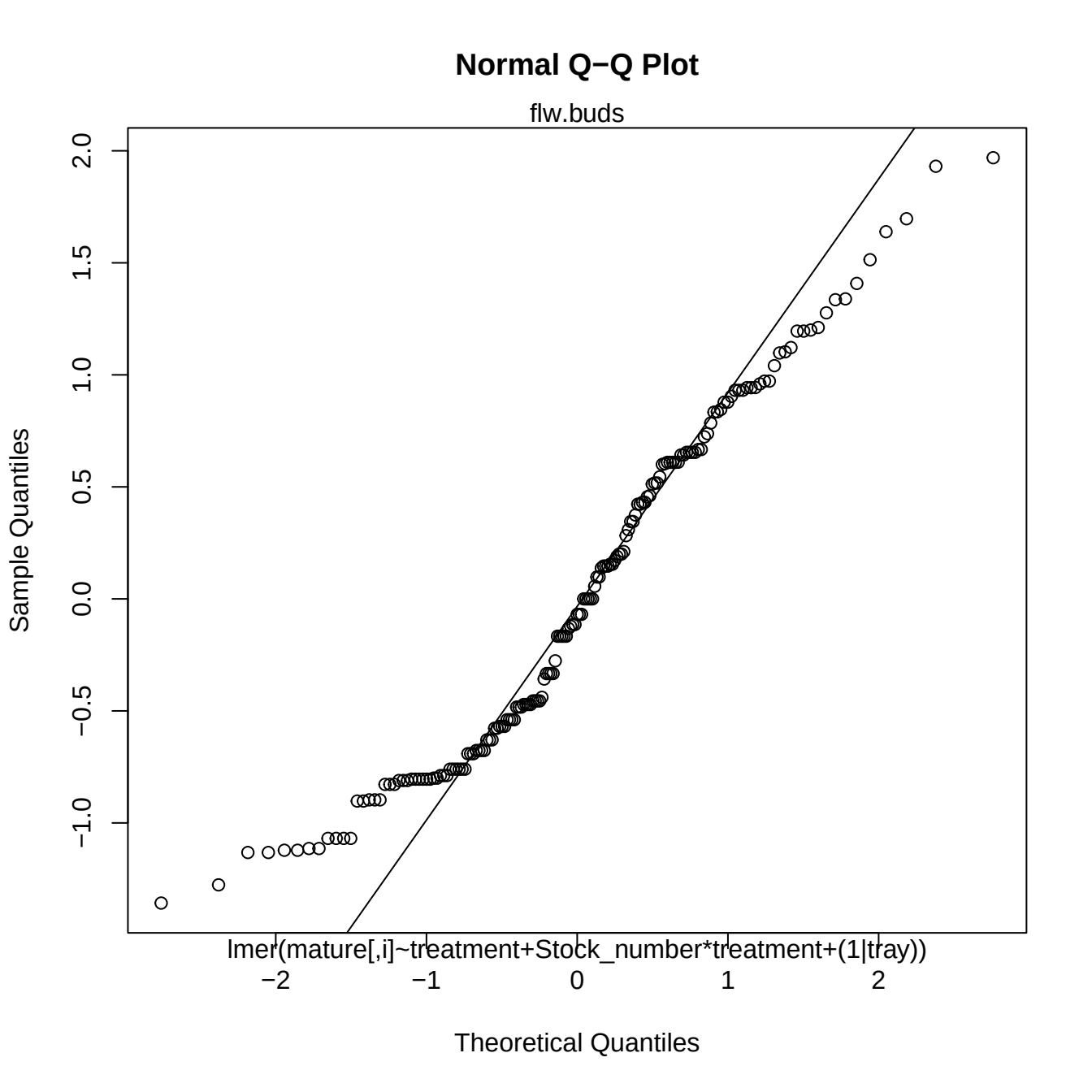

flw.num
resid(mod)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
1.0
1.5
2.0
2.5
3.0
3.5
fitted(mod)

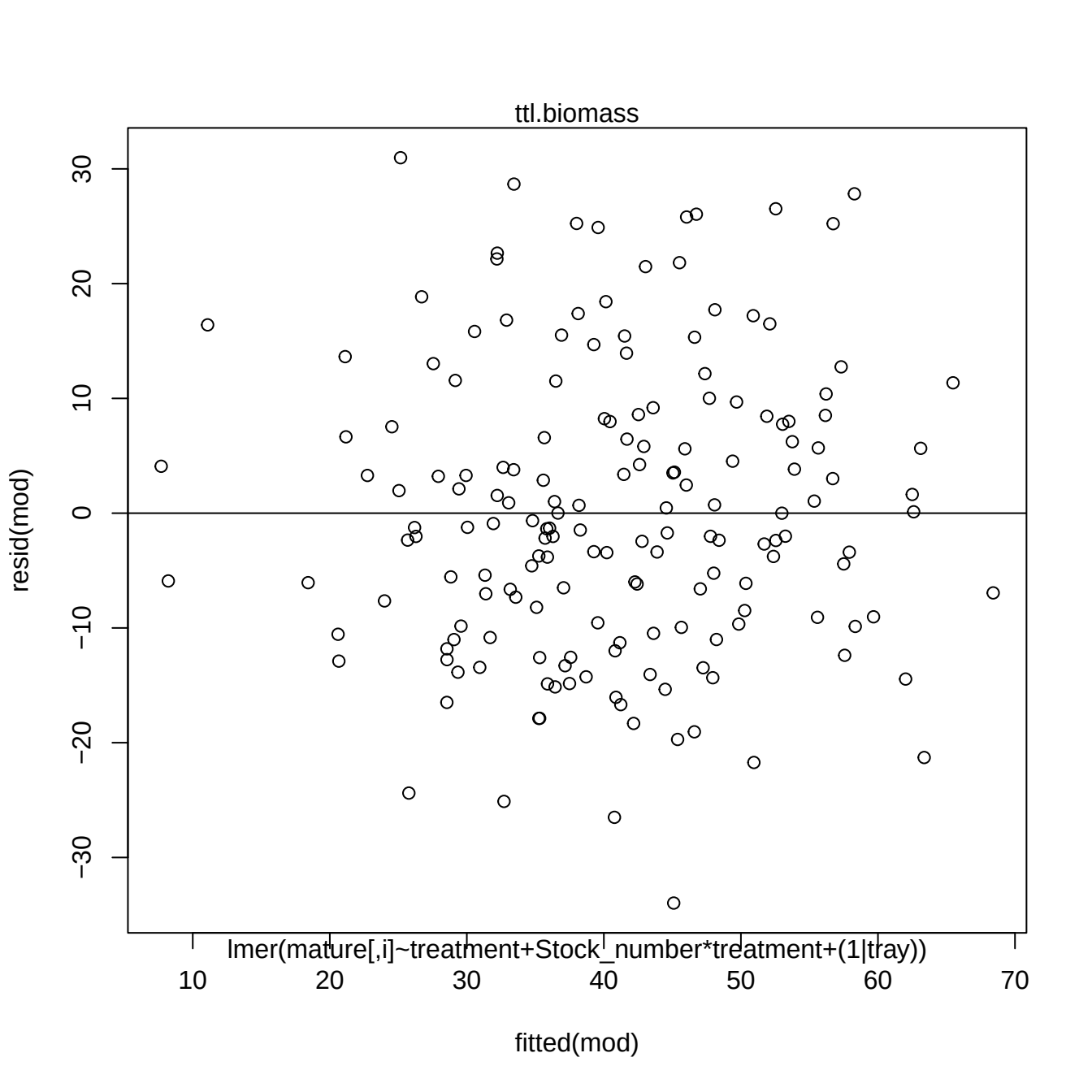

Normal Q−Q Plot
flw.num
Sample Quantiles
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

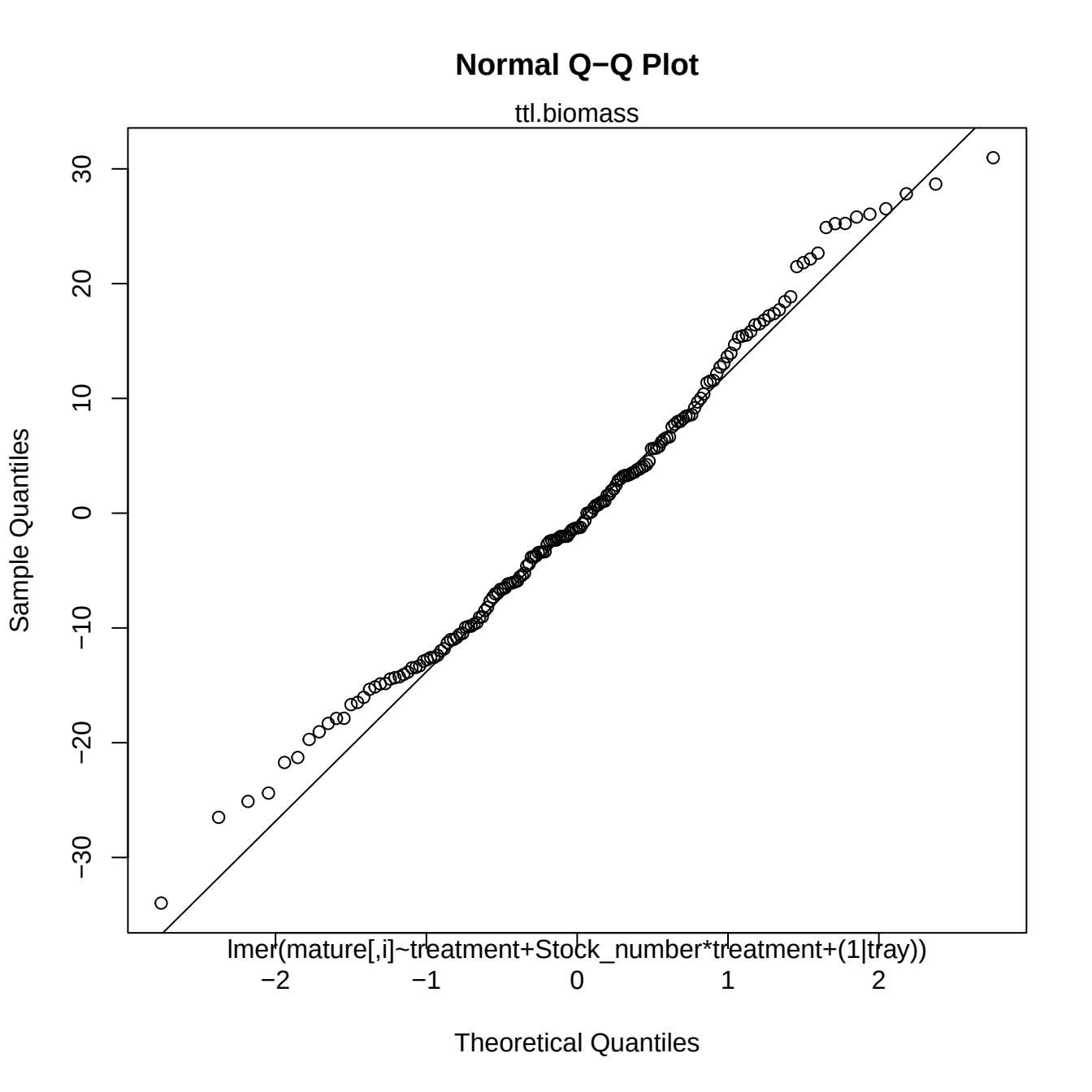

aborted.fruits
resid(mod)
2
1
0
−1
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
1.0
1.5
2.0
2.5
fitted(mod)

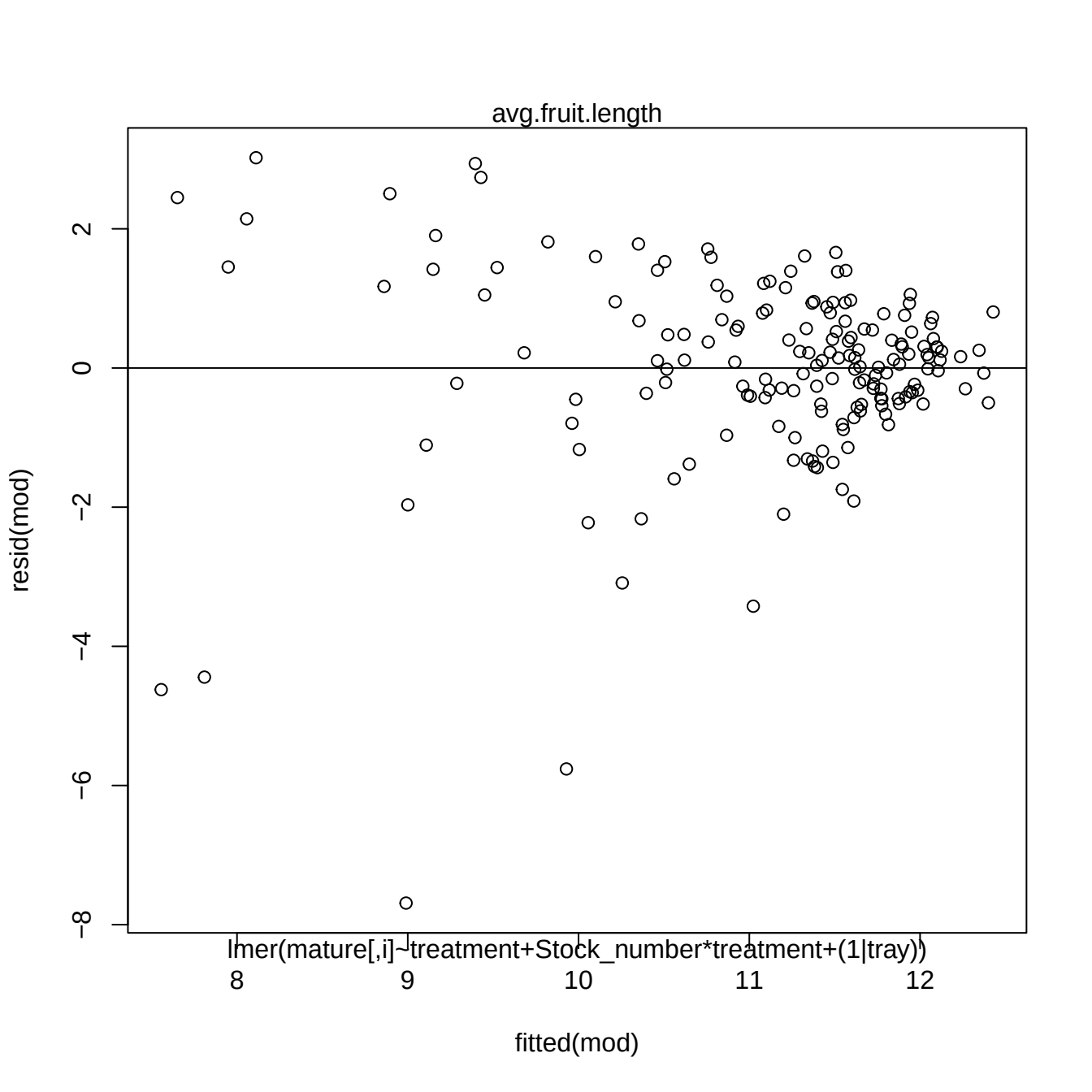

Normal Q−Q Plot
aborted.fruits
Sample Quantiles
Theoretical Quantiles
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
−1
0
1
2

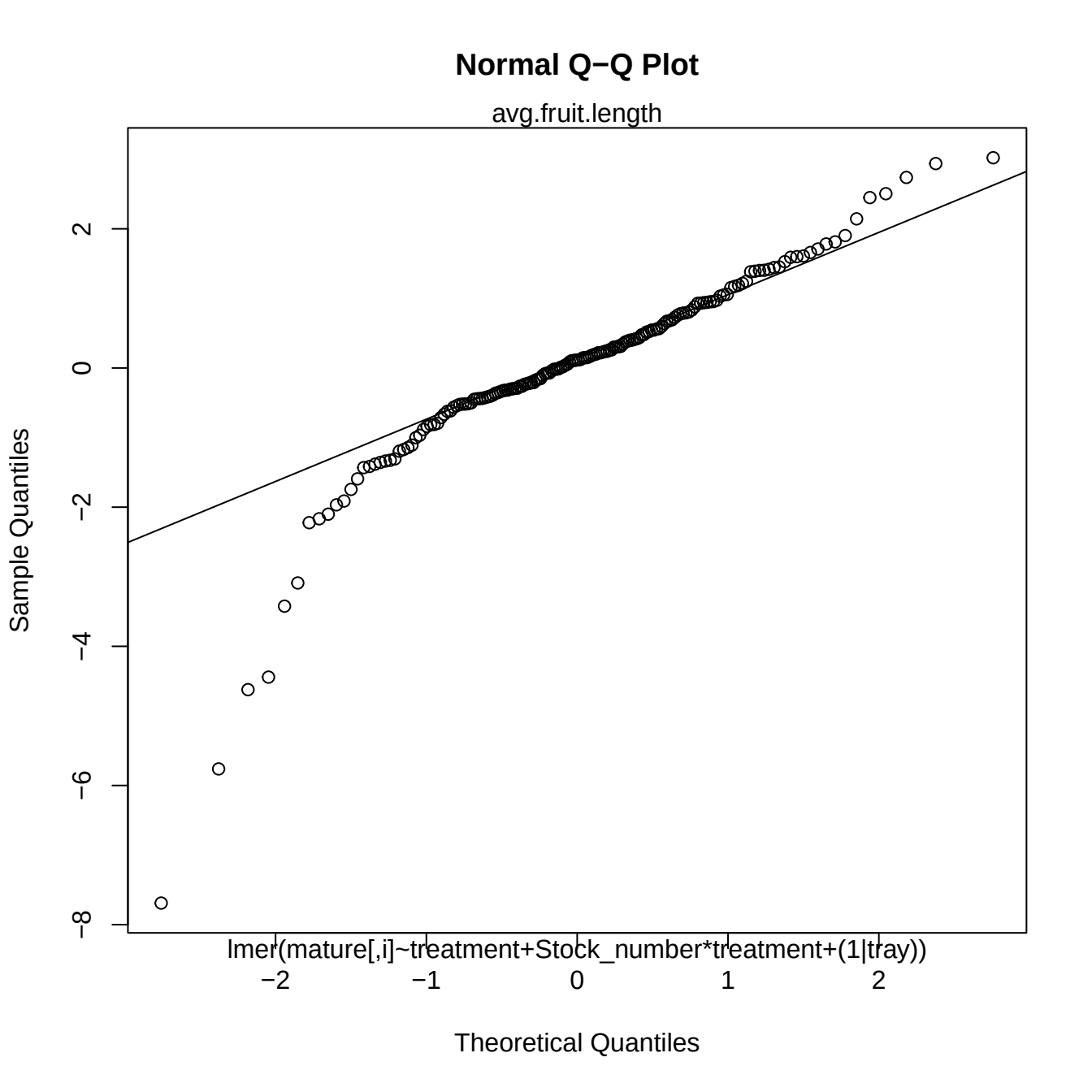

flw.buds
resid(mod)
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
0.5
1.0
1.5
2.0
fitted(mod)

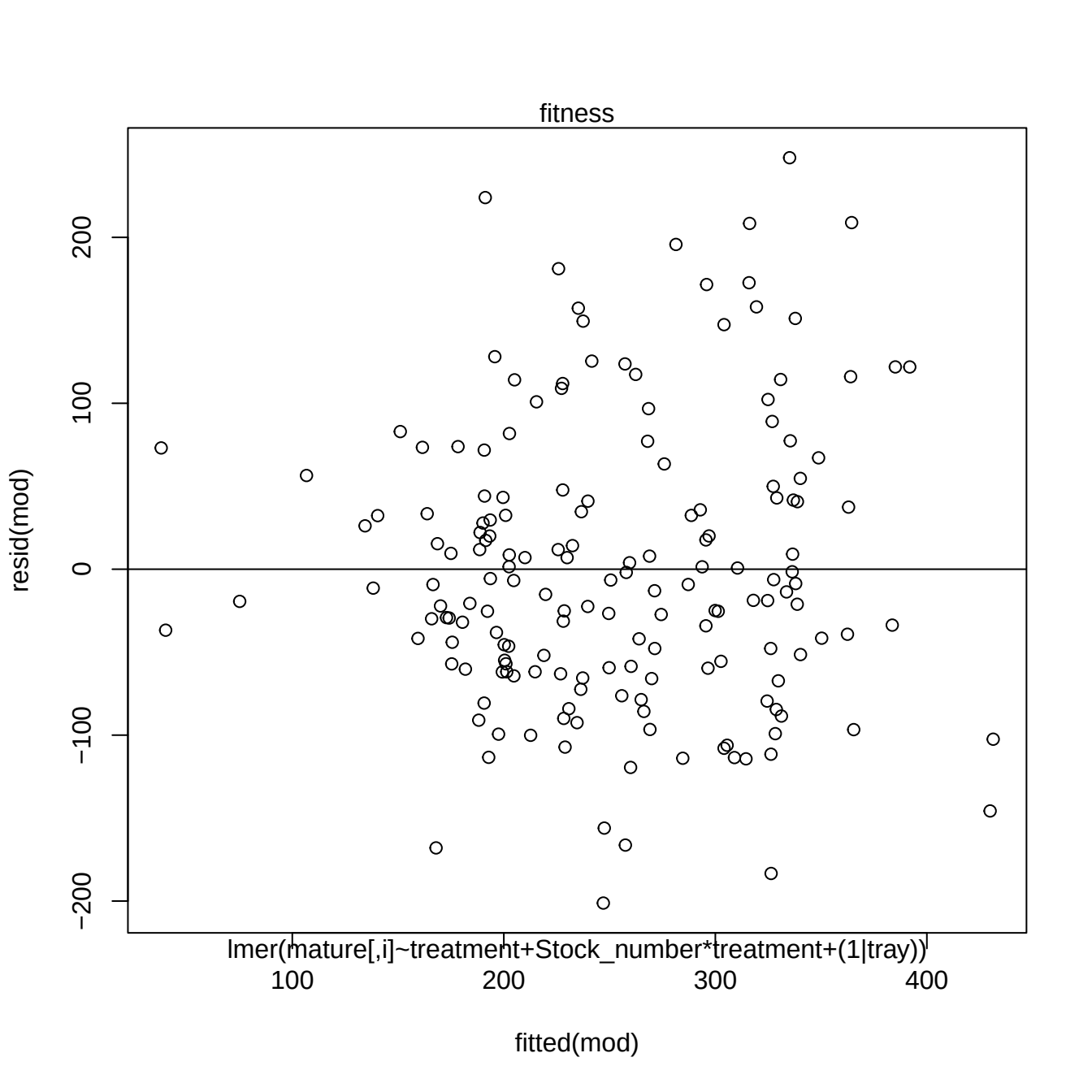

Normal Q−Q Plot
flw.buds
Sample Quantiles
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles

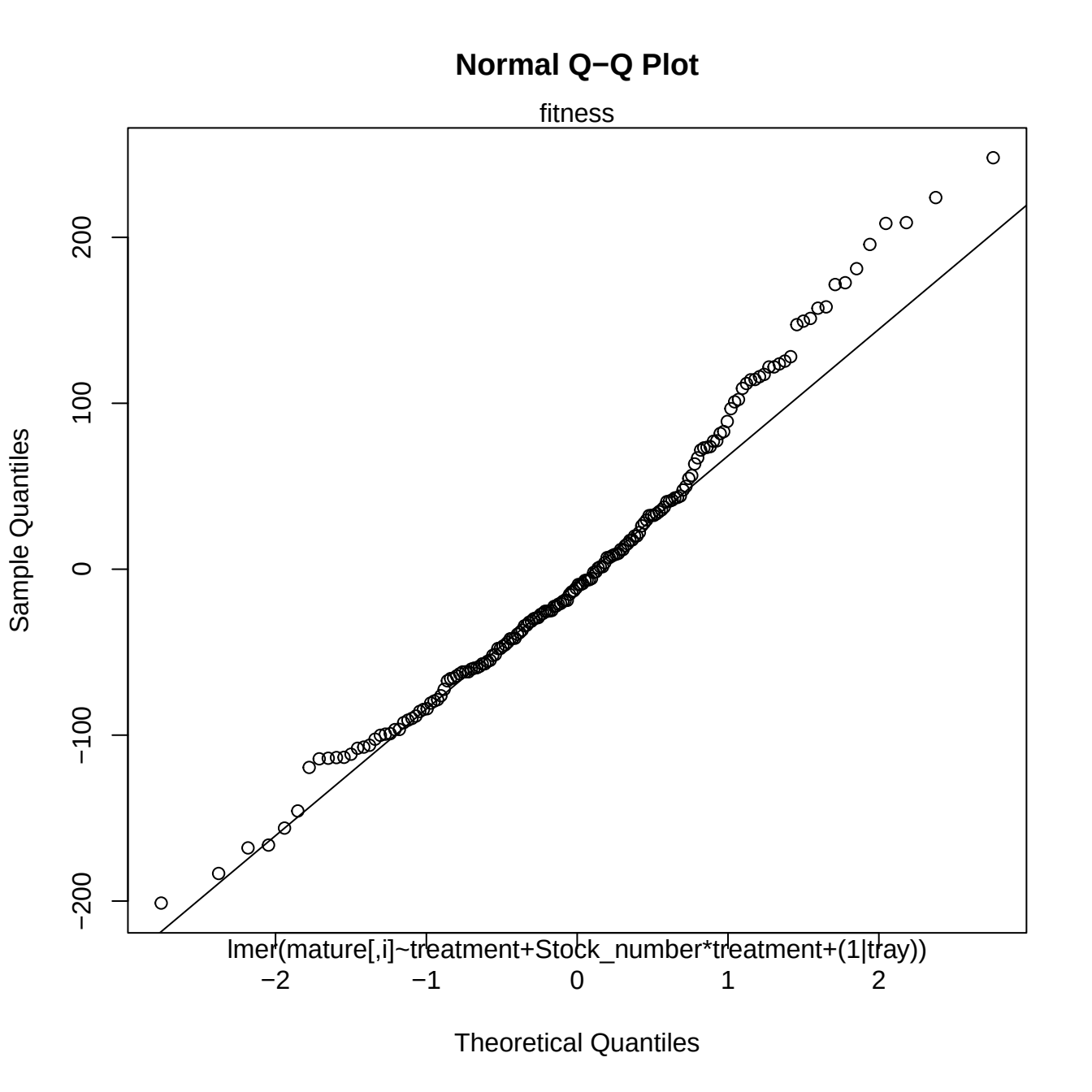

ttl.biomass
resid(mod)
30
20
10
0
−10
−20
−30
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
10
20
30
40
50
60
70
fitted(mod)


Normal Q−Q Plot
ttl.biomass
Sample Quantiles
30
20
10
0
−10
−20
−30
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles


avg.fruit.length
resid(mod)
2
0
−2
−4
−6
−8
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
8
9
10
11
12
fitted(mod)


Normal Q−Q Plot
avg.fruit.length
Sample Quantiles
Theoretical Quantiles
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
2
0
−2
−4
−6
−8
−2
−1
0
1
2


fitness
resid(mod)
200
100
0
−100
−200
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
100
200
300
400
fitted(mod)


Normal Q−Q Plot
fitness
Sample Quantiles
200
100
0
−100
−200
lmer(mature[,i]~treatment+Stock_number*treatment+(1|tray))
−2
−1
0
1
2
Theoretical Quantiles