> model\_eggs\_extra<-hurdle(n\_eggs\_max~

(scale(phen\_index1)+scale(shoot\_h)+ scale(veg\_h\_mean)+scale(n\_redants))\*pop+

scale(phen\_index1):scale(veg\_h\_mean)+scale(phen\_index1):scale(n\_redants)+

scale(shoot\_h):scale(veg\_h\_mean)+scale(shoot\_h):scale(n\_redants),

data=data3,dist="negbin",zero.dist="binomial",na.action="na.fail")

> models\_eggs\_extra<-pdredge(model\_eggs\_extra,cluster=clust)

Fixed terms are "count\_(Intercept)" and "zero\_(Intercept)"

There were 12 warnings (use warnings() to see them)

> summary(model.avg(models\_eggs\_extra, subset = delta < 2)) #Table1

Call:

model.avg(object = models\_eggs\_extra, subset = delta < 2)

Component model call:

hurdle(formula = <3 unique values>, data = data3, na.action = na.fail, dist = negbin, zero.dist

= binomial)

Component models:

df logLik AICc delta weight

3/4/5/8/9/10 9 -684.87 1388.37 0.00 0.53

1/2/3/4/5/6/7/8/9/10 15 -679.05 1389.82 1.45 0.25

1/3/4/5/6/8/9/10 13 -681.41 1390.12 1.76 0.22

Term codes:

count\_pop count\_scale(n\_redants) count\_scale(phen\_index1) count\_scale(shoot\_h)

1 2 3 4

count\_scale(veg\_h\_mean) zero\_pop zero\_scale(n\_redants) zero\_scale(phen\_index1)

5 6 7 8

zero\_scale(shoot\_h) zero\_scale(veg\_h\_mean)

9 10

Model-averaged coefficients:

(full average)

Estimate Std. Error z value Pr(>|z|)

count\_(Intercept) 1.81981 0.12822 14.193 < 2e-16 \*\*\*

count\_scale(phen\_index1) 0.23377 0.09195 2.542 0.011010 \*

count\_scale(shoot\_h) 0.31656 0.08002 3.956 7.62e-05 \*\*\*

count\_scale(veg\_h\_mean) 0.03216 0.09107 0.353 0.723963

count\_Log(theta) 0.55198 0.18343 3.009 0.002620 \*\*

zero\_(Intercept) 0.57311 0.20773 2.759 0.005799 \*\*

zero\_scale(phen\_index1) 0.37811 0.18716 2.020 0.043363 \*

zero\_scale(shoot\_h) 0.84069 0.17653 4.762 1.90e-06 \*\*\*

zero\_scale(veg\_h\_mean) -0.61752 0.17761 3.477 0.000508 \*\*\*

count\_popR -0.02736 0.12814 0.214 0.830897

count\_popT -0.15438 0.23982 0.644 0.519769

count\_scale(n\_redants) 0.03005 0.06067 0.495 0.620392

zero\_popR 0.24168 0.33849 0.714 0.475232

zero\_popT -0.26208 0.43199 0.607 0.544067

zero\_scale(n\_redants) 0.04023 0.10231 0.393 0.694173

(conditional average)

Estimate Std. Error z value Pr(>|z|)

count\_(Intercept) 1.81981 0.12822 14.193 < 2e-16 \*\*\*

count\_scale(phen\_index1) 0.23377 0.09195 2.542 0.011010 \*

count\_scale(shoot\_h) 0.31656 0.08002 3.956 7.62e-05 \*\*\*

count\_scale(veg\_h\_mean) 0.03216 0.09107 0.353 0.723963

count\_Log(theta) 0.55198 0.18343 3.009 0.002620 \*\*

zero\_(Intercept) 0.57311 0.20773 2.759 0.005799 \*\*

zero\_scale(phen\_index1) 0.37811 0.18716 2.020 0.043363 \*

zero\_scale(shoot\_h) 0.84069 0.17653 4.762 1.90e-06 \*\*\*

zero\_scale(veg\_h\_mean) -0.61752 0.17761 3.477 0.000508 \*\*\*

count\_popR -0.05780 0.18144 0.319 0.750075

count\_popT -0.32606 0.25593 1.274 0.202654

count\_scale(n\_redants) 0.11805 0.06380 1.850 0.064274 .

zero\_popR 0.51046 0.32372 1.577 0.114832

zero\_popT -0.55354 0.48251 1.147 0.251293

zero\_scale(n\_redants) 0.15805 0.15002 1.054 0.292075

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Relative variable importance:

count\_scale(phen\_index1) count\_scale(shoot\_h) count\_scale(veg\_h\_mean)

Importance: 1.00 1.00 1.00

N containing models: 3 3 3

zero\_scale(phen\_index1) zero\_scale(shoot\_h) zero\_scale(veg\_h\_mean) count\_pop zero\_pop

Importance: 1.00 1.00 1.00 0.47 0.47

N containing models: 3 3 3 2 2

count\_scale(n\_redants) zero\_scale(n\_redants)

Importance: 0.25 0.25

N containing models: 1 1

> model\_fruitset\_extra<-glm(cbind(n\_intact\_fruits,n\_fl)~

(scale(phen\_index1)+scale(shoot\_h)+scale(veg\_h\_mean)+scale(meanT))\*pop,

family="binomial", data=subset(data3,!pop=="R"),na.action="na.fail")

> models\_fruitset\_extra<-dredge(model\_fruitset\_extra)

Fixed term is "(Intercept)"

> summary(model.avg(models\_fruitset\_extra,subset=delta<2))

Call:

model.avg(object = models\_fruitset\_extra, subset = delta < 2)

Component model call:

glm(formula = cbind(n\_intact\_fruits, n\_fl) ~ <5 unique rhs>, family = binomial, data =

subset(data3, !pop == "R"), na.action = na.fail)

Component models:

df logLik AICc delta weight

12 3 -226.38 458.88 0.00 0.33

125 4 -225.40 459.01 0.13 0.31

1245 5 -225.25 460.80 1.93 0.12

123 4 -226.32 460.85 1.98 0.12

124 4 -226.33 460.87 1.99 0.12

Term codes:

pop scale(meanT) scale(phen\_index1) scale(shoot\_h) pop:scale(meanT)

1 2 3 4 5

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) -1.788244 0.185843 0.186978 9.564 < 2e-16 \*\*\*

popT 0.890333 0.213011 0.214304 4.155 3.26e-05 \*\*\*

scale(meanT) 0.404320 0.158776 0.159433 2.536 0.0112 \*

popT:scale(meanT) -0.122739 0.193633 0.194193 0.632 0.5274

scale(shoot\_h) -0.007621 0.038427 0.038632 0.197 0.8436

scale(phen\_index1) 0.003248 0.030034 0.030203 0.108 0.9143

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) -1.78824 0.18584 0.18698 9.564 < 2e-16 \*\*\*

popT 0.89033 0.21301 0.21430 4.155 3.26e-05 \*\*\*

scale(meanT) 0.40432 0.15878 0.15943 2.536 0.0112 \*

popT:scale(meanT) -0.28493 0.20206 0.20330 1.402 0.1611

scale(shoot\_h) -0.03104 0.07272 0.07316 0.424 0.6714

scale(phen\_index1) 0.02670 0.08239 0.08290 0.322 0.7474

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Relative variable importance:

pop scale(meanT) pop:scale(meanT) scale(shoot\_h) scale(phen\_index1)

Importance: 1.00 1.00 0.43 0.25 0.12

N containing models: 5 5 2 2 1