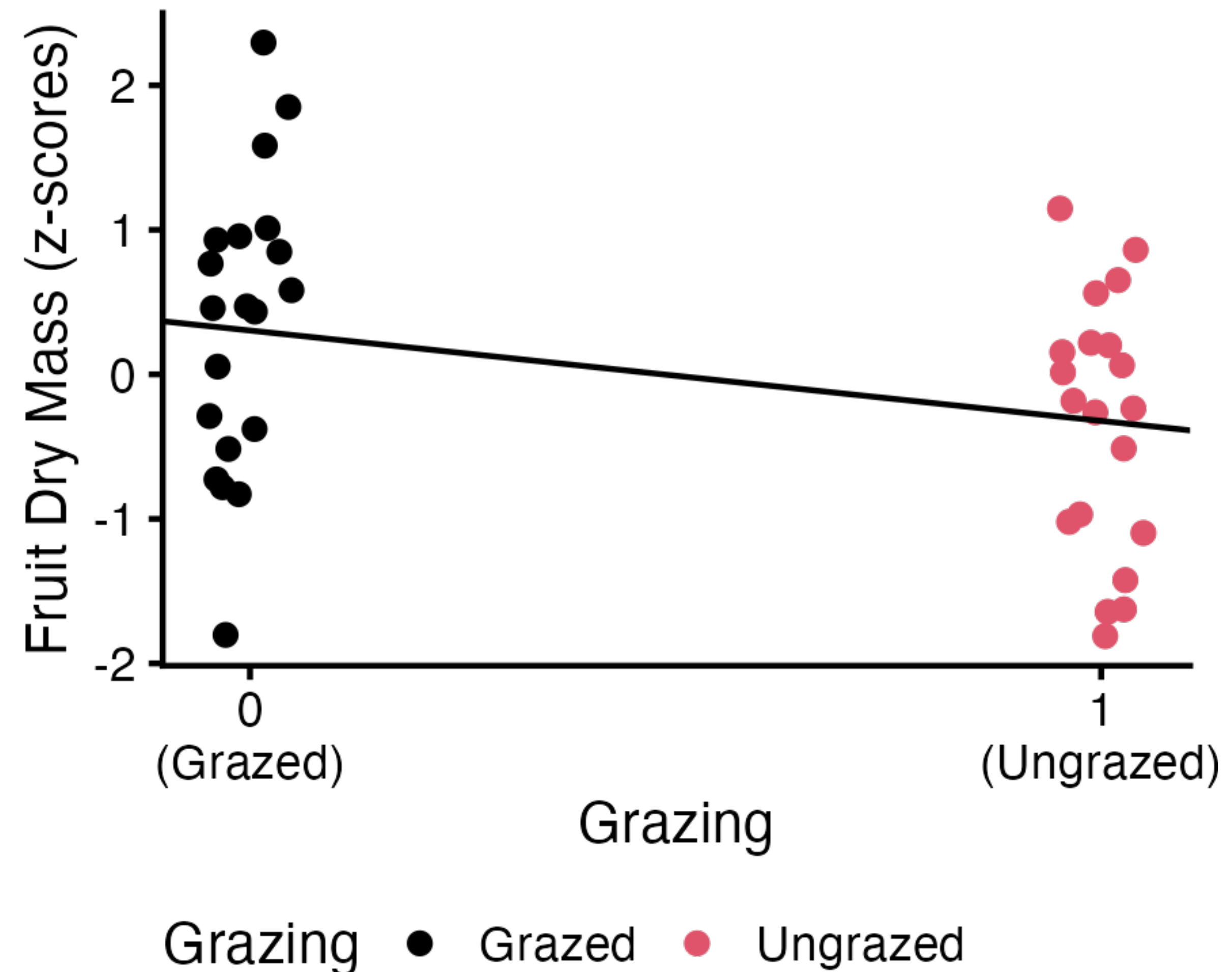


Model with only treatment

```
df$Grazing0 = ifelse(df$Grazing ==  
"Ungrazed", 1, 0) # numeric coding  
  
m1 = ulam(alist(Fruit ~ normal(mu, sigma),  
  mu <- a + b*Grazing0,  
  a ~ normal(0, 1),  
  b ~ normal(0, 1),  
  sigma ~ exponential(1)),  
data = df, chains = 4, cores = 4)
```

```
> precis(m1, prob = 0.95)  
      mean    sd  2.5% 97.5%  
a      0.32 0.21 -0.09  0.72  
b     -0.66 0.30 -1.23 -0.06  
sigma  0.97 0.12  0.77  1.22
```



Model with treatment and size

```
m2 = ulam(alist(  
  Fruit ~ normal(mu, sigma),  
  mu <- a + b*Grazing0 + c*Root,  
  a ~ normal(0, 1),  
  b ~ normal(0, 1),  
  c ~ normal(0, 1),  
  sigma ~ exponential(1)),  
  data = df, chains = 4, cores = 4)
```

```
> precis(m2, prob = 0.95)
```

	mean	sd	2.5%	97.5%
a	-0.71	0.08	-0.86	-0.54
b	1.42	0.14	1.13	1.67
c	1.39	0.07	1.26	1.53
sigma	0.28	0.03	0.23	0.36

