> describe(number\_of\_people)

vars n mean sd median trimmed mad min max range skew kurtosis se

X1 1 1000 6.13 2.4 6 5.96 1.48 0 18 18 0.92 2.18 0.08

> describe(size\_of\_land)

vars n mean sd median trimmed mad min max range skew kurtosis se

X1 1 1000 2.44 1.87 2.02 2.13 1.2 0.05 9.71 9.66 1.53 2.23 0.06

> describe(crop\_production)

vars n mean sd median trimmed mad min max range skew kurtosis se

X1 1 1000 1.46 1.39 1.08 1.2 0.77 0 11.8 11.8 2.98 12.3 0.04

> describe(number\_of\_month\_foodshortage)

vars n mean sd median trimmed mad min max range skew kurtosis se

X1 1 1000 4.98 3.55 6 4.94 2.97 0 12 12 0.01 -1.19 0.11

> describe(number\_of\_workingageaadults)

vars n mean sd median trimmed mad min max range skew kurtosis se

X1 1 1000 2.09 1.08 2 2 0 0 7 7 1.13 3.27 0.03

> describe(number\_of\_children)

vars n mean sd median trimmed mad min max range skew kurtosis se

X1 1 1000 2.7 1.56 2 2.51 1.48 1 10 9 1.02 1.13 0.05

> table(household$`Experienced food shortages in the past year`)

0 1

209 791

> ftable(table(household$`Experienced food shortages in the past year`, household$`Number of months in past year experienced food shortages`))

0 1 2 4 5 6 8 10 12

0 209 0 0 0 0 0 0 0 0

1 0 10 89 186 1 197 122 175 11

> head(df)

number\_of\_month\_foodshortage number\_of\_people number\_of\_workingageaadults number\_of\_children size\_of\_land crop\_production

1 10 7 4 2 2.8328040 1.7986044

2 8 6 3 1 1.6187451 0.7395633

3 2 5 2 2 4.4515491 1.9599429

4 6 6 2 3 6.0702939 1.3483622

5 0 7 3 3 0.8093725 0.9552559

6 2 11 5 6 1.6187451 1.6088866

> summary(model\_1)

Call:

lm(formula = number\_of\_month\_foodshortage ~ ., data = df)

Residuals:

Min 1Q Median 3Q Max

-5.8984 -3.0210 0.1853 2.8116 10.2043

Coefficients:

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

(Intercept) 5.052024 0.339623 14.875 < 2e-16 \*\*\*

number\_of\_people -0.002705 0.086011 -0.031 0.975

number\_of\_workingageaadults 0.158989 0.133603 1.190 0.234

number\_of\_children 0.126703 0.111708 1.134 0.257

size\_of\_land -0.041995 0.067795 -0.619 0.536

crop\_production -0.432265 0.090920 -4.754 2.28e-06 \*\*\*

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

Residual standard error: 3.49 on 994 degrees of freedom

Multiple R-squared: 0.03772, Adjusted R-squared: 0.03288

F-statistic: 7.793 on 5 and 994 DF, p-value: 3.318e-07