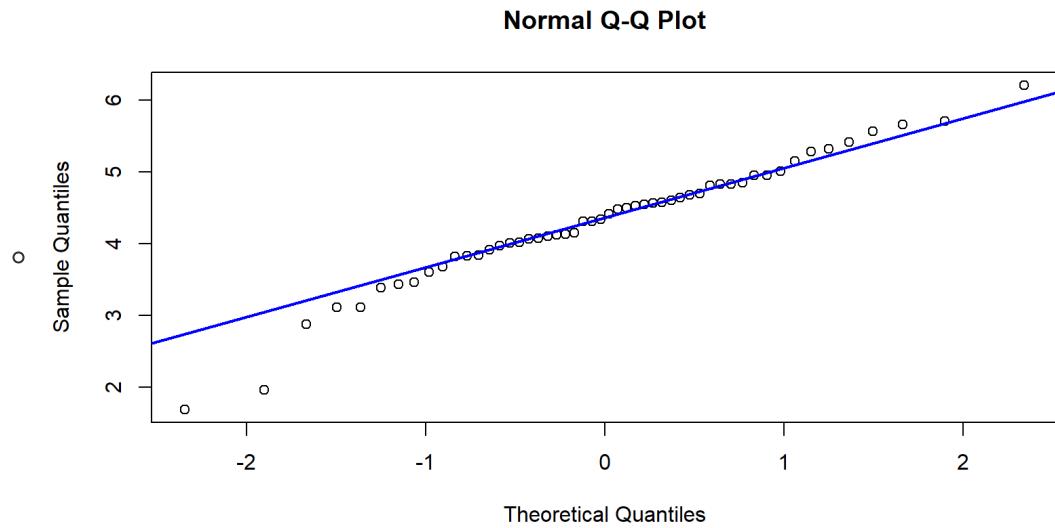
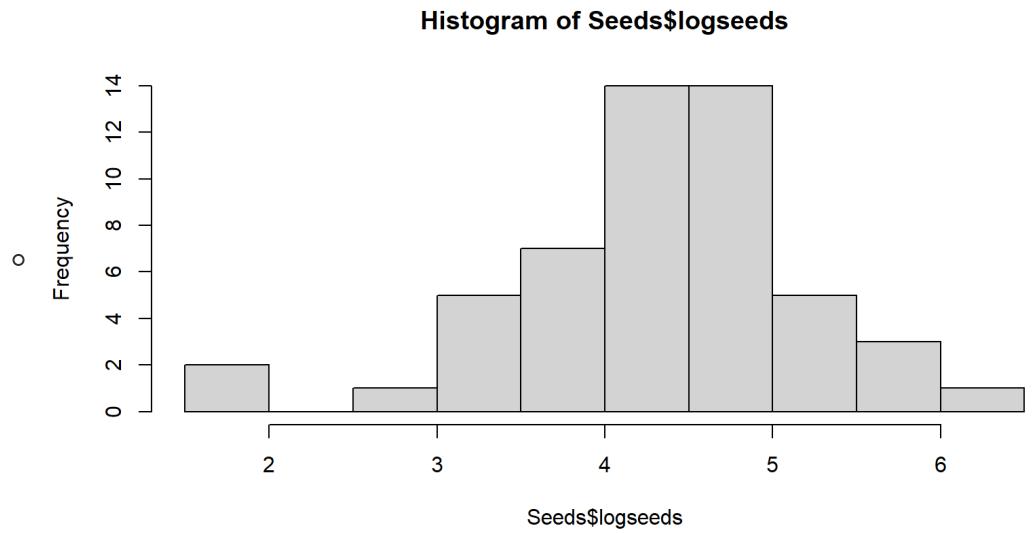


Dataset 1

- Hypothesis
 - Null hypothesis (H_0): The mean number of seeds are equal between all sites
 - Alternative hypothesis (H_1): At least one site significantly varies in mean number of seeds
- Normality? Yes

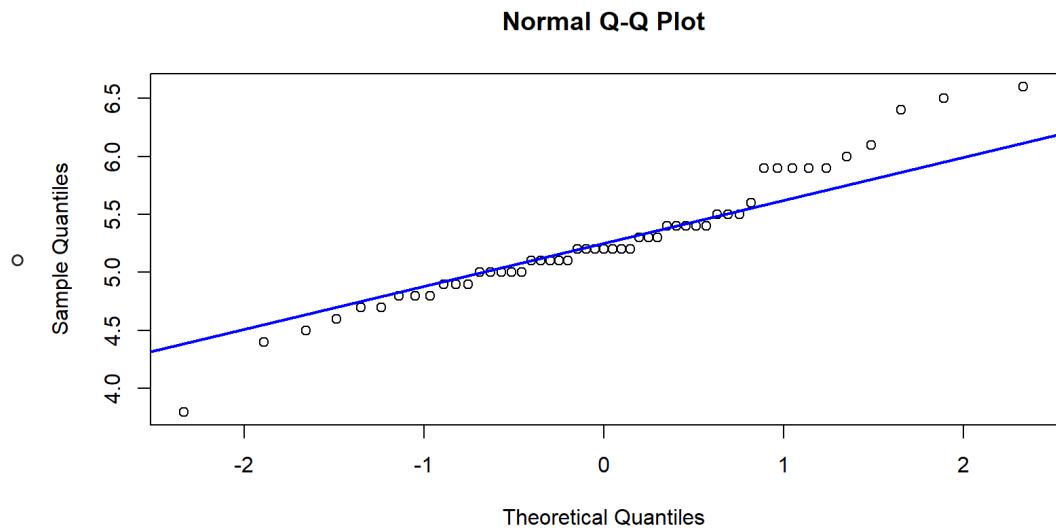
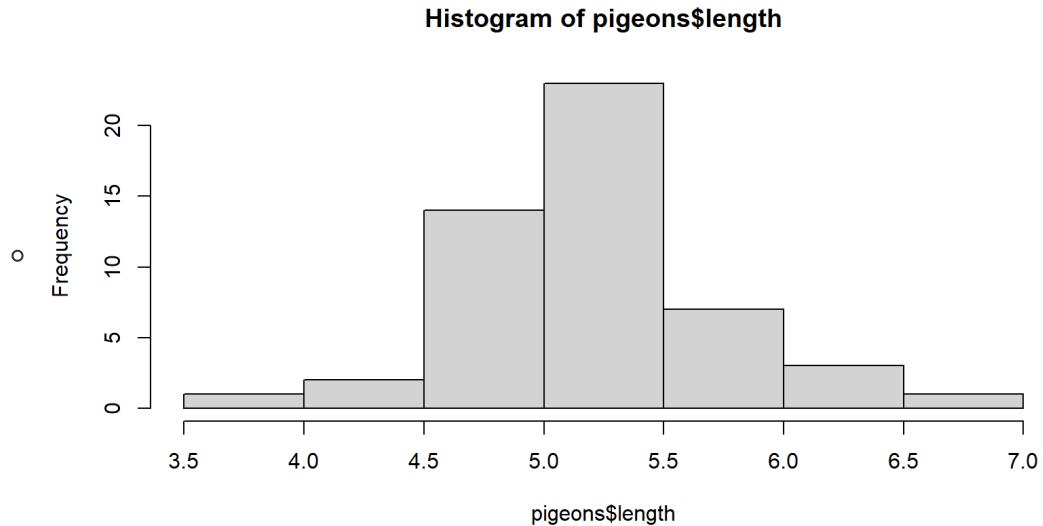


- Summary Stats
 - Min. 1st Qu. Median Mean 3rd Qu. Max.
1.690 3.894 4.378 4.311 4.829 6.211
- ANOVA
 - Df Sum Sq Mean Sq F value Pr(>F)
site 5 6.686 1.3373 1.958 0.103
Residuals 46 31.411 0.6828
 - H₀ accepted

Dataset 2

- Hypothesis

- Null hypothesis (H_0): The mean beak lengths are equal between all groups
- Alternative hypothesis (H_1): At least one group significantly differs in mean beak lengths.
- Normality? Yes

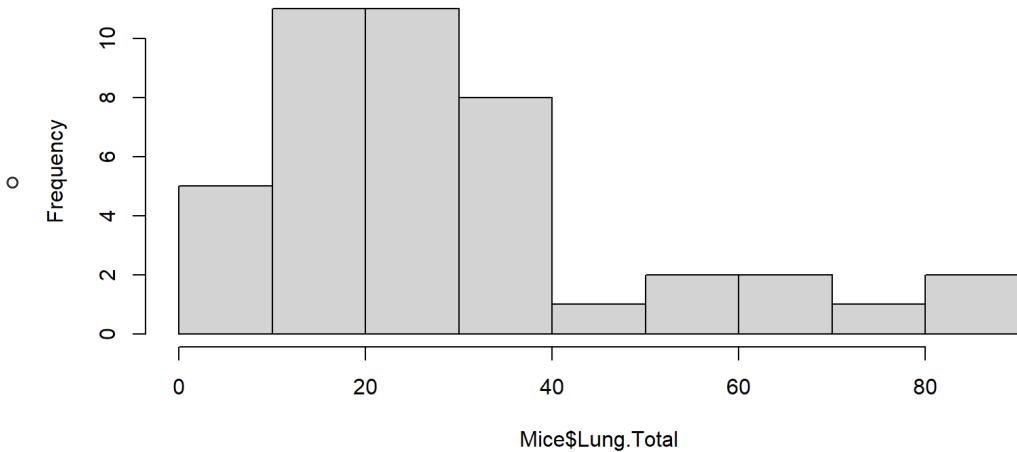


- Summary Stats
 - Min. 1st Qu. Median Mean 3rd Qu. Max.
3.800 5.000 5.200 5.271 5.500 6.600
- ANOVA
 - Df Sum Sq Mean Sq F value Pr(>F)
Group 4 0.847 0.2119 0.722 0.581
Residuals 46 13.498 0.2934
 - H_0 accepted

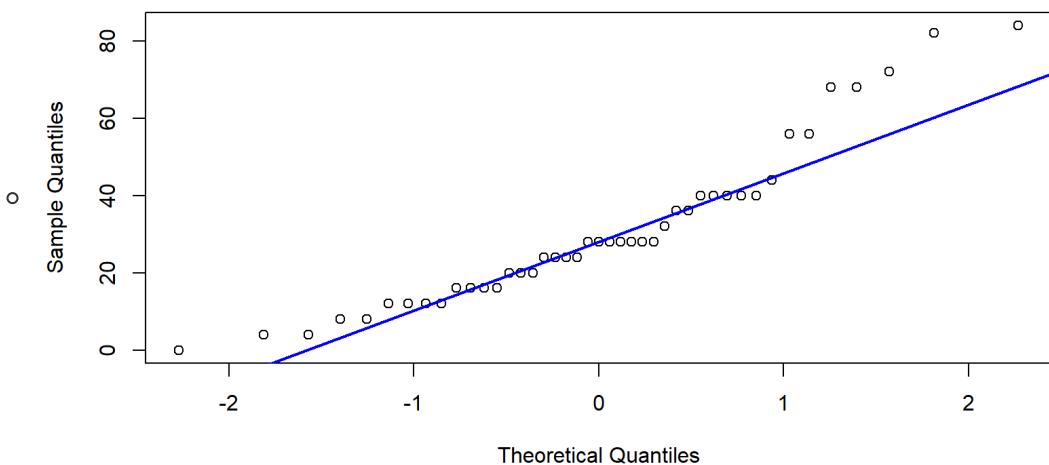
Dataset 3

- Hypothesis
 - Null hypothesis (H_0): The mean number of total lung parasites are equal between all mouse strains
 - Alternative hypothesis (H_1): At least one mouse strain significantly differs in mean number of lung parasites
- Normality? Yes

Histogram of Mice\$Lung.Total



Normal Q-Q Plot



- Summary Stats
 - Min. 1st Qu. Median Mean 3rd Qu. Max.
0.00 16.00 28.00 30.74 40.00 84.00
- ANOVA
 - Df Sum Sq Mean Sq F value Pr(>F)
Strain 8 11143 1392.9 6.765 2.73e-05 ***
Residuals 34 7001 205.9
 - H0 rejected
 - Tukey multiple comparisons of means
(highlight = significant difference, cutoff = 95% family-wise confidence level)

	diff	lwr	upr	p adj
BALB/c-A/J	9.6	-20.429745	39.629745	0.9764691
C3H/HeN-A/J	-0.8	-30.829745	29.229745	1.0000000
C57Bl/6-A/J	45.2	15.170255	75.229745	0.0005545
CBA/Ca-A/J	-0.8	-30.829745	29.229745	1.0000000
DBA/2-A/J	-8.8	-38.829745	21.229745	0.9862607
NIH-A/J	22.4	-7.629745	52.429745	0.2823402
SJL-A/J	21.2	-10.651354	53.051354	0.4267620
SWR-A/J	2.2	-29.651354	34.051354	0.9999997
C3H/HeN-BALB/c	-10.4	-40.429745	19.629745	0.9622623
C57Bl/6-BALB/c	35.6	5.570255	65.629745	0.0106561

CBA/Ca-BALB/c -10.4 -40.429745 19.629745 0.9622623
DBA/2-BALB/c -18.4 -48.429745 11.629745 0.5360744
NIH-BALB/c 12.8 -17.229745 42.829745 0.8860350
SJL-BALB/c 11.6 -20.251354 43.451354 0.9498384
SWR-BALB/c -7.4 -39.251354 24.451354 0.9970498
C57Bl/6-C3H/HeN 46.0 15.970255 76.029745 0.0004294
CBA/Ca-C3H/HeN 0.0 -30.029745 30.029745 1.0000000
DBA/2-C3H/HeN -8.0 -38.029745 22.029745 0.9925732
NIH-C3H/HeN 23.2 -6.829745 53.229745 0.2422041
SJL-C3H/HeN 22.0 -9.851354 53.851354 0.3781838
SWR-C3H/HeN 3.0 -28.851354 34.851354 0.9999965
CBA/Ca-C57Bl/6 -46.0 -76.029745 -15.970255 0.0004294
DBA/2-C57Bl/6 -54.0 -84.029745 -23.970255 0.0000324
NIH-C57Bl/6 -22.8 -52.829745 7.229745 0.2617553
SJL-C57Bl/6 -24.0 -55.851354 7.851354 0.2705107
SJR-C57Bl/6 -43.0 -74.851354 -11.148646 0.0024020
DBA/2-CBA/Ca -8.0 -38.029745 22.029745 0.9925732
NIH-CBA/Ca 23.2 -6.829745 53.229745 0.2422041
SJL-CBA/Ca 22.0 -9.851354 53.851354 0.3781838
SWR-CBA/Ca 3.0 -28.851354 34.851354 0.9999965
NIH-DBA/2 31.2 1.170255 61.229745 0.0366938
SJL-DBA/2 30.0 -1.851354 61.851354 0.0778676
SWR-DBA/2 11.0 -20.851354 42.851354 0.9628665
SJL-NIH -1.2 -33.051354 30.651354 1.0000000
SWR-NIH -20.2 -52.051354 11.651354 0.4908115
SWR-SJL -19.0 -52.574276 14.574276 0.6359198