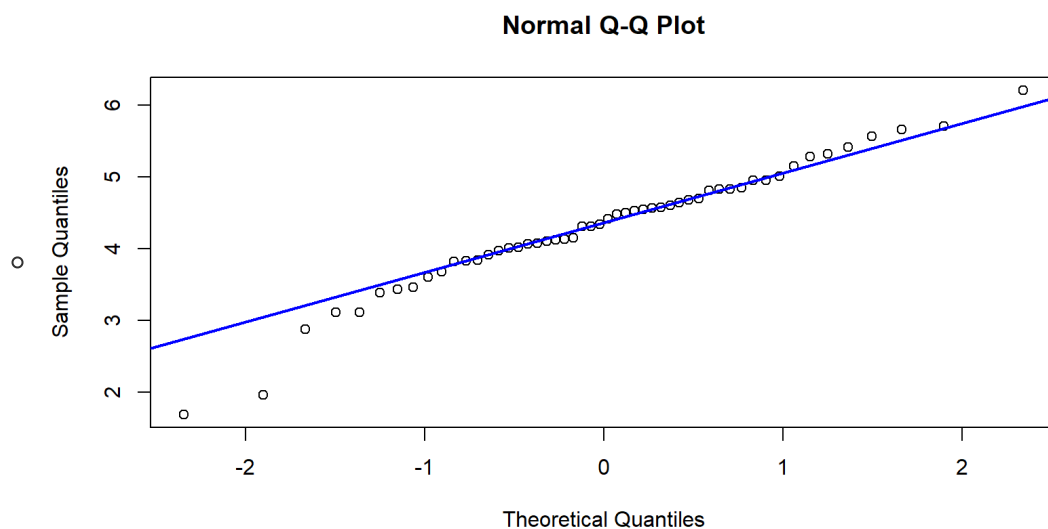
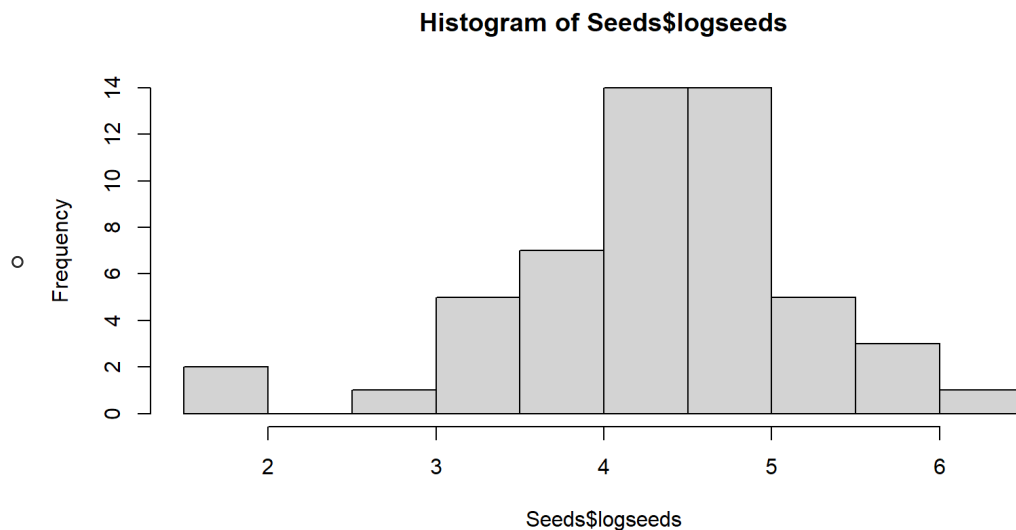


Dataset 1

- Hypothesis
 - Null hypothesis (H0): The mean number of seeds are equal between all sites
 - Alternative hypothesis (H1): At least one site significantly varies in mean number of seeds
- Normality? Yes

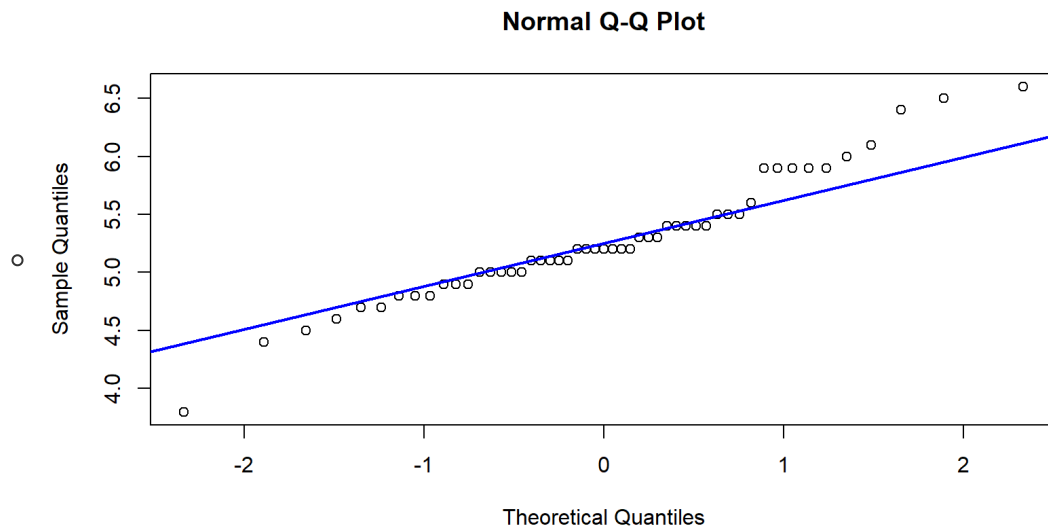
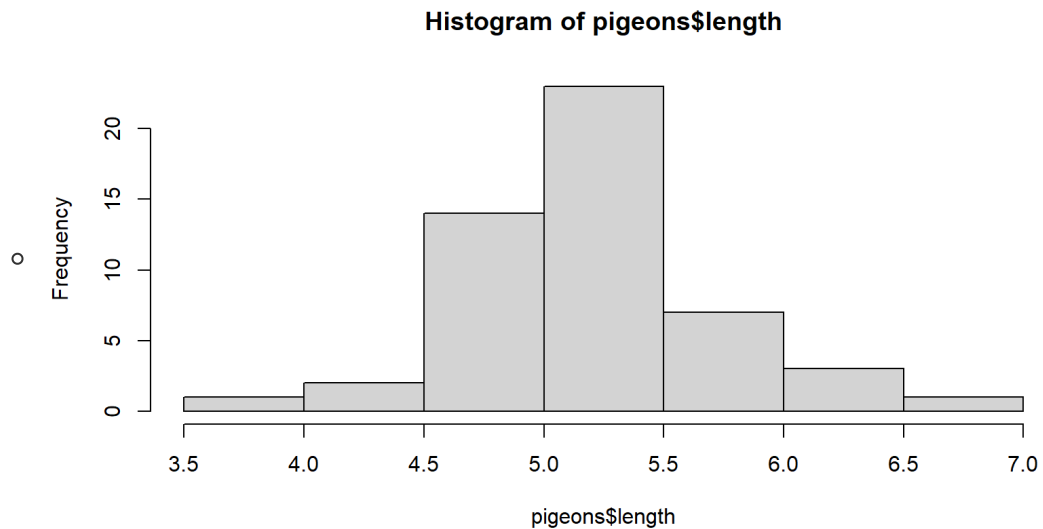


- Summary Stats
 - Min. 1st Qu. Median Mean 3rd Qu. Max.
1.690 3.894 4.378 4.311 4.829 6.211
- ANOVA
 - Df Sum Sq Mean Sq F value Pr(>F)
site 5 6.686 1.3373 1.958 0.103
Residuals 46 31.411 0.6828
 - H0 accepted

Dataset 2

- Hypothesis

- Null hypothesis (H0): The mean beak lengths are equal between all groups
- Alternative hypothesis (H1): At least one group significantly differs in mean beak lengths.
- Normality? Yes

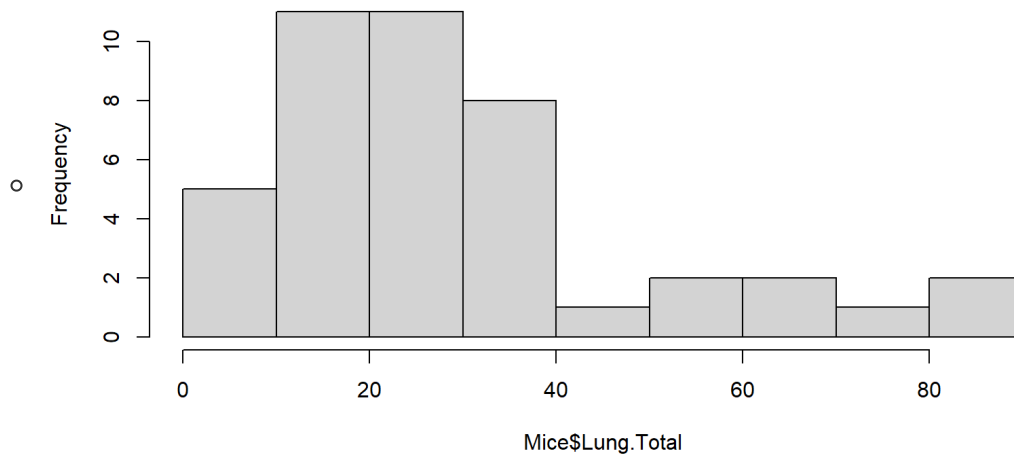


- Summary Stats
 - Min. 1st Qu. Median Mean 3rd Qu. Max.
3.800 5.000 5.200 5.271 5.500 6.600
- ANOVA
 - Df Sum Sq Mean Sq F value Pr(>F)
Group 4 0.847 0.2119 0.722 0.581
Residuals 46 13.498 0.2934
 - H0 accepted

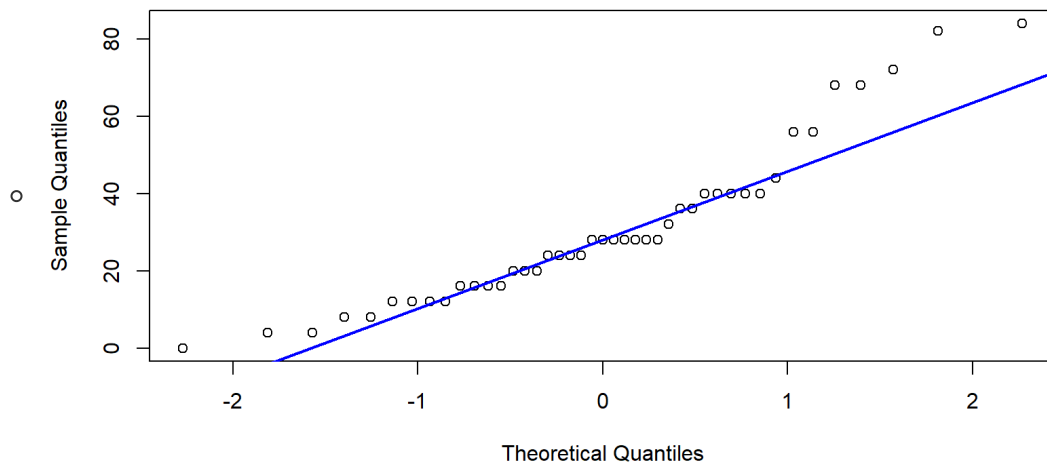
Dataset 3

- Hypothesis
 - Null hypothesis (H0): The mean number of total lung parasites are equal between all mouse strains
 - Alternative hypothesis (H1): 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
SWR-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