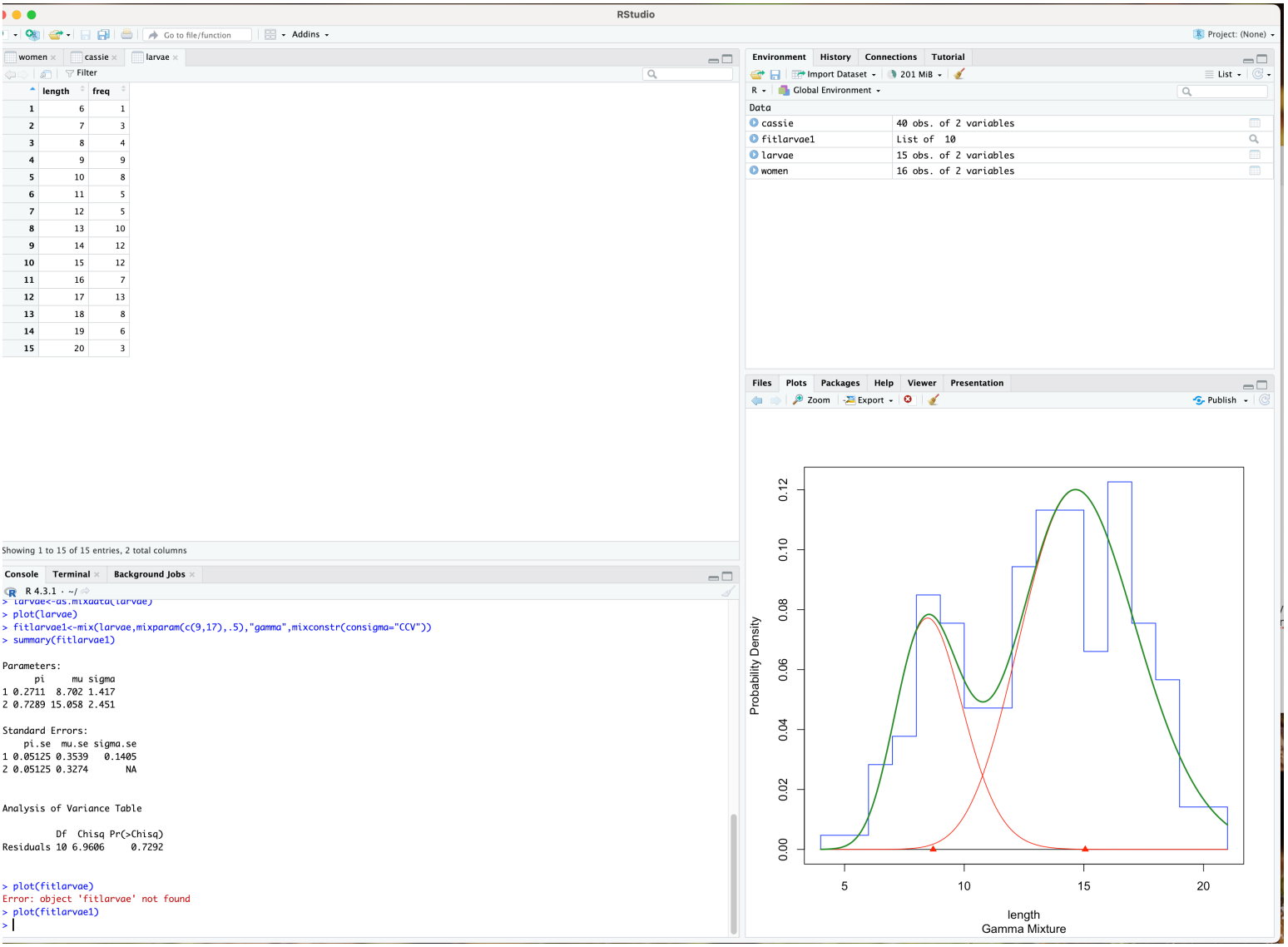
TOTAL DATASET



TOTAL DATASET

RStudio

larvae

	length	freq
1	6	1
2	7	3
3	8	4
4	9	9
5	10	8
6	11	5
7	12	5
8	13	10
9	14	12

Showing 1 to 10 of 15 entries, 2 total columns

Environment | History | Connections | Tutorial

Import Dataset | 235 MiB | List

R | Global Environment

Data

fitlarvae2	List of 10
fitlarvae3	List of 10
larvae	15 obs. of 2 variables

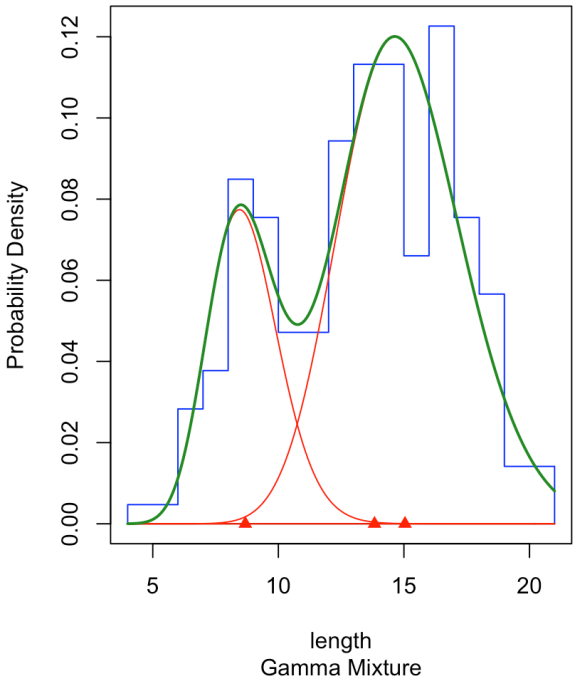
Console | Terminal | Background Jobs

R 4.3.1 · ~/

```
          Df  Chisq Pr(>Chisq)
Residuals 10 6.9606     0.7292


> fitlarvae3<-mix(larvae,mixparam(c(8,12,17),.5),"gamma",mixconstr(consigma = "CC
V"))
Warning message:
In sqrt(diag(vmat)) : NaNs produced
> summary(fitlarvae3)

Parameters:
         pi     mu sigma
1 2.714e-01  8.684 1.414
2 3.407e-06 13.830 2.252
3 7.286e-01 15.043 2.450

Standard Errors:
     pi.se  mu.se sigma.se
1 0.051384 0.3536   0.1398
2 0.002456    NaN       NA
3 0.051430 0.3275       NA


Analysis of Variance Table

          Df  Chisq Pr(>Chisq)
Residuals  8 6.9651     0.5404


> plot(fitlarvae3)
>
```

Files | Plots | Packages | Help | Viewer | Presentation

Zoom | Export



TOTAL DATASET

RStudio

larvae

Filter

	length	freq
1	6	1
2	7	3
3	8	4
4	9	9
5	10	8
6	11	5
7	12	5
8	13	10
9	14	12

Showing 1 to 10 of 15 entries, 2 total columns

Environment | History | Connections | Tutorial

Import Dataset | 236 MiB | List

R | Global Environment

Data

fitlarvae2	List of 10
fitlarvae3	List of 10
fitlarvae4	List of 10
larvae	15 obs. of 2 variables

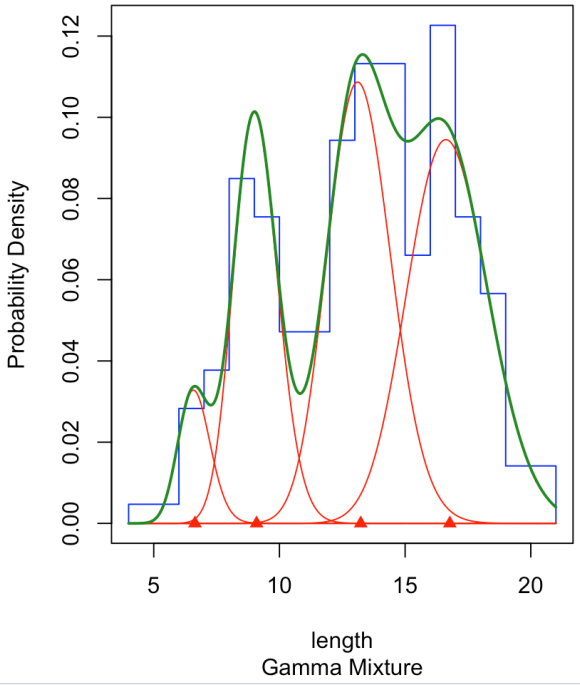
Console | Terminal | Background Jobs

R 4.3.1 · ~/

```
> fitlarvae4<-mix(larvae,mixparam(c(8,10,13,18),.5),"gamma",mixconstr(consigma = "C
CV"))
> summary(fitlarvae4)

Parameters:
       pi     mu  sigma
1 0.05235  6.639 0.6389
2 0.22104  9.091 0.8749
3 0.34560 13.234 1.2736
4 0.38101 16.778 1.6147

Standard Errors:
    pi.se  mu.se sigma.se
1 0.03226 0.5233  0.09143
2 0.04679 0.3169       NA
3 0.07088 0.3993       NA
4 0.07485 0.4316       NA


Analysis of Variance Table

          Df  Chisq Pr(>Chisq)
Residuals  6 2.4701     0.8718


> plot(fitlarvae4)
>
```

Files | Plots | Packages | Help | Viewer | Presentation

Zoom | Export



TOTAL DATASET

RStudio

larvae

Filter

	length	freq
1	6	1
2	7	3
3	8	4
4	9	9
5	10	8
6	11	5
7	12	5
8	13	10
9	14	12

Showing 1 to 10 of 15 entries, 2 total columns

Environment | History | Connections | Tutorial

Import Dataset | 195 MiB | List

R | Global Environment

Data

fitlarvae1	List of 10
larvae	15 obs. of 2 variables

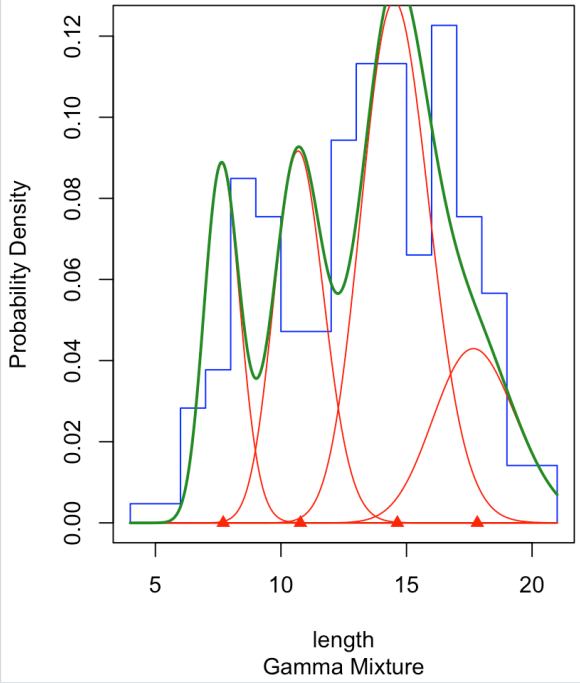
Console | Terminal | Background Jobs

R 4.3.1 · ~/

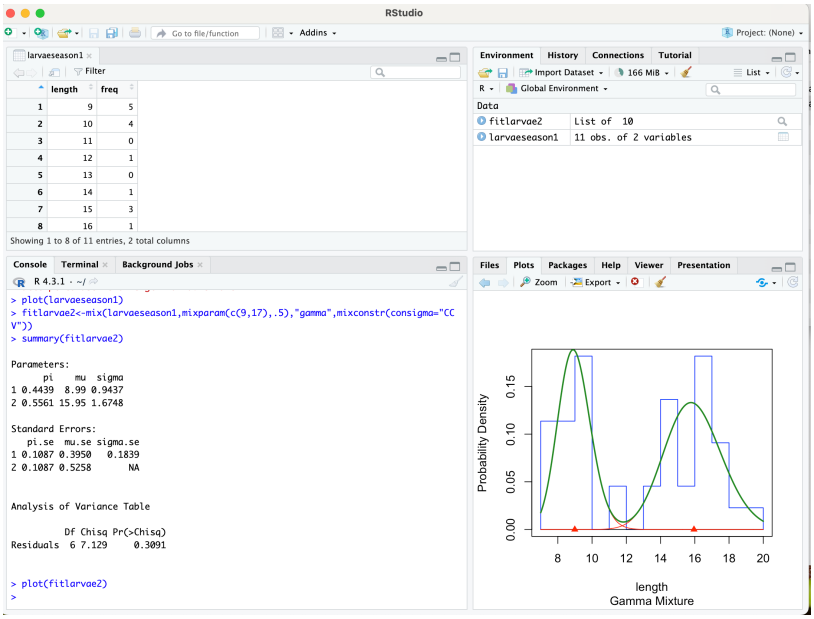
```
  The optimization process terminated because either the estimates are approximate
local optimal solution or steptol is too small
> plot(fitlarvae1)
> summary(fitlarvae1)

Parameters:
         pi     mu  sigma
1 1.581e-01  7.703 0.7142
2 2.288e-01 10.776 0.9992
3 4.358e-01 14.637 1.3571
4 1.773e-01 17.820 1.6522
5 4.947e-07 35.015 3.2465

Standard Errors:
  pi.se mu.se sigma.se
1    NA    NA       NA
2    NA    NA       NA
3    NA    NA       NA
4    NA    NA       NA
5    NA    NA       NA


Analysis of Variance Table

          Df  Chisq Pr(>Chisq)
Residuals  4 20.894  0.0003324 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1


>
```

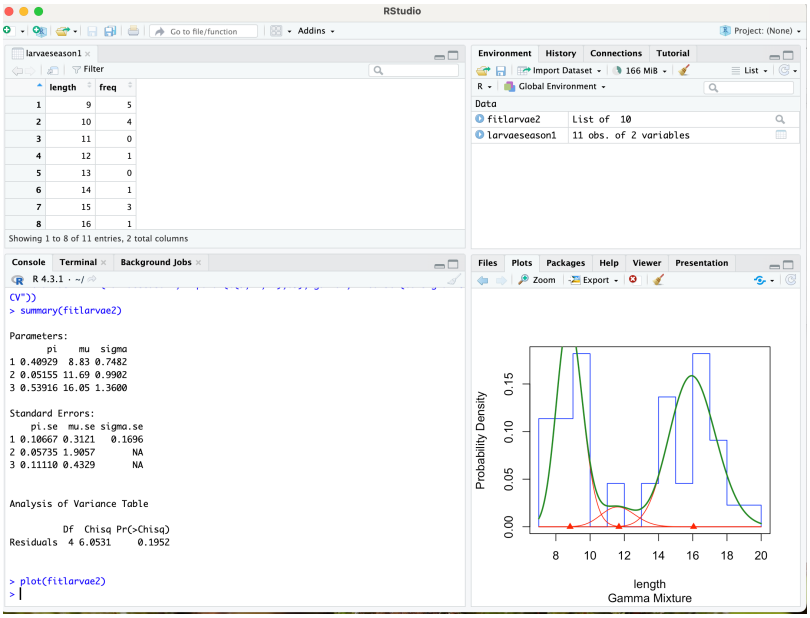
Files | Plots | Packages | Help | Viewer | Presentation

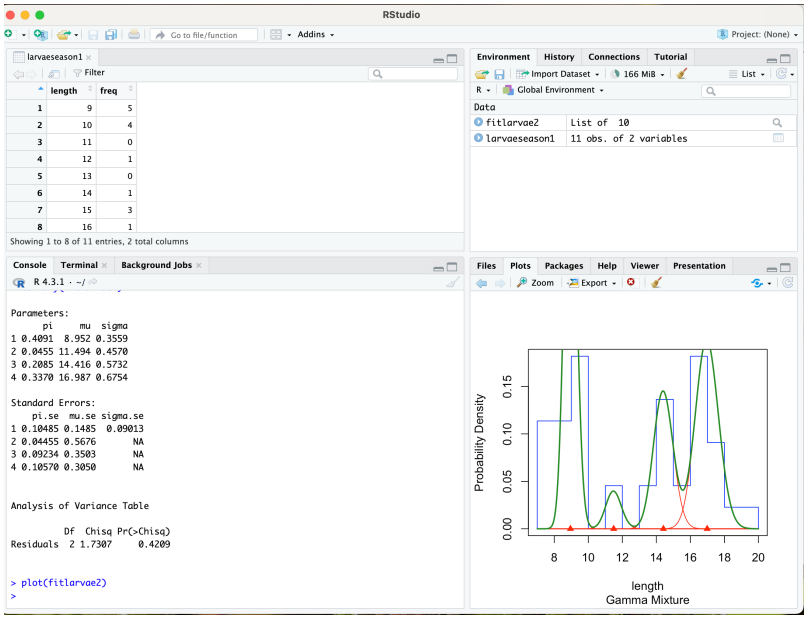
Zoom | Export



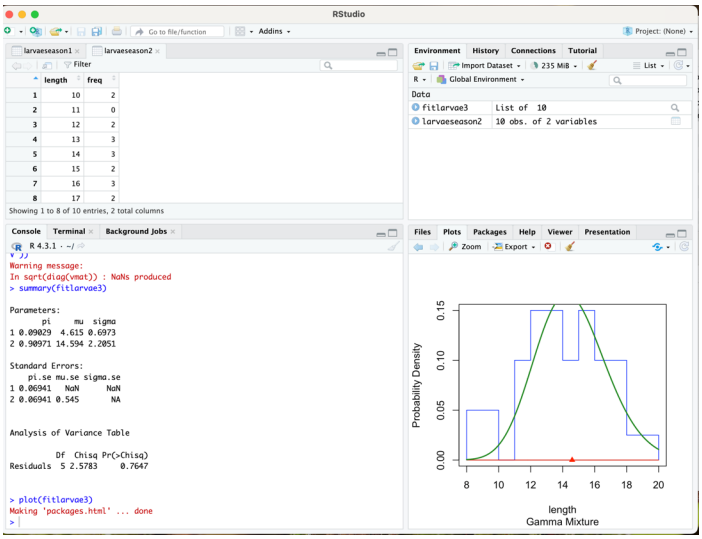
SEASON 1 DATASET

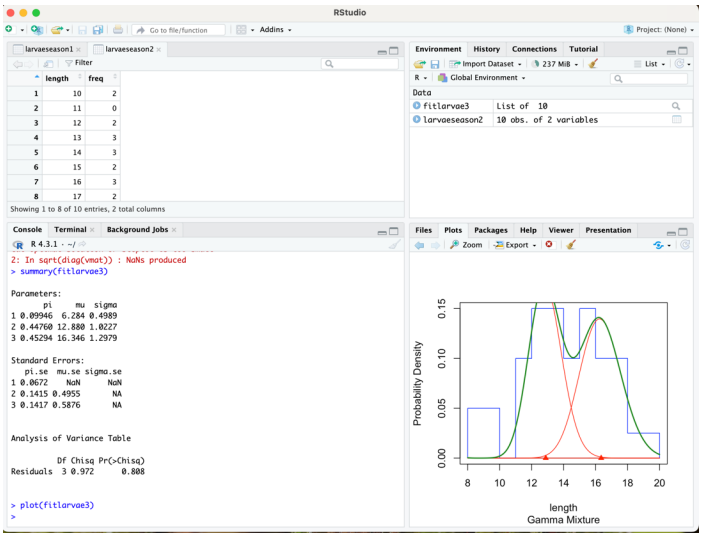


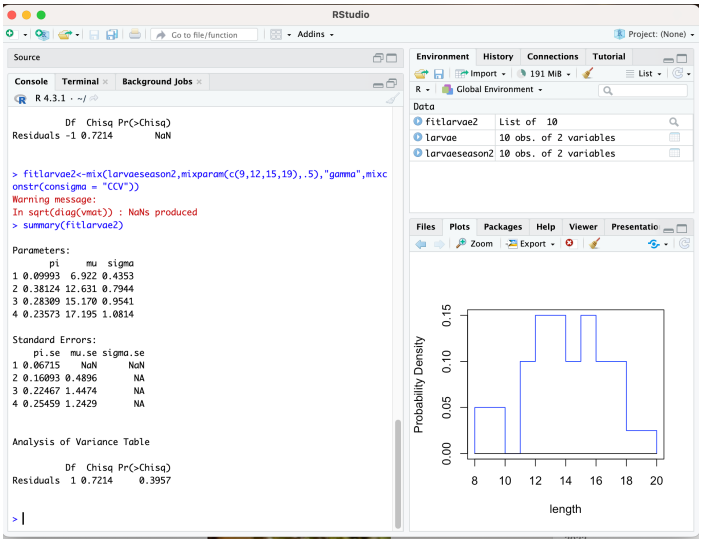




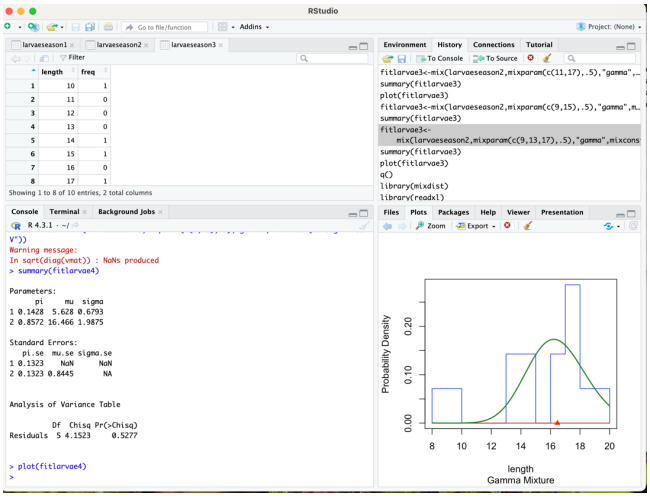
SEASON 2 DATASET

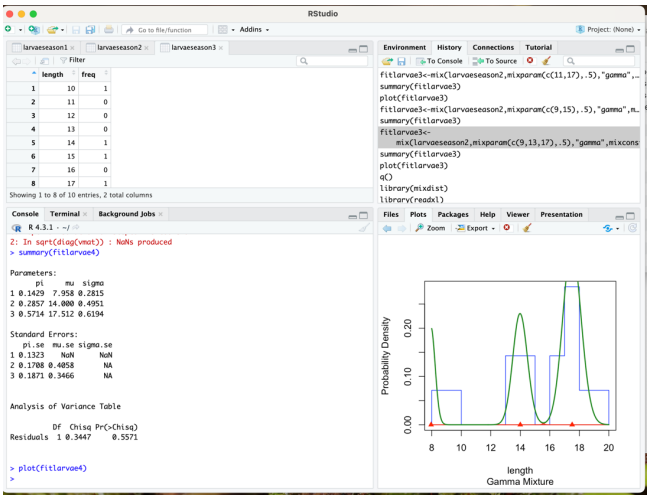


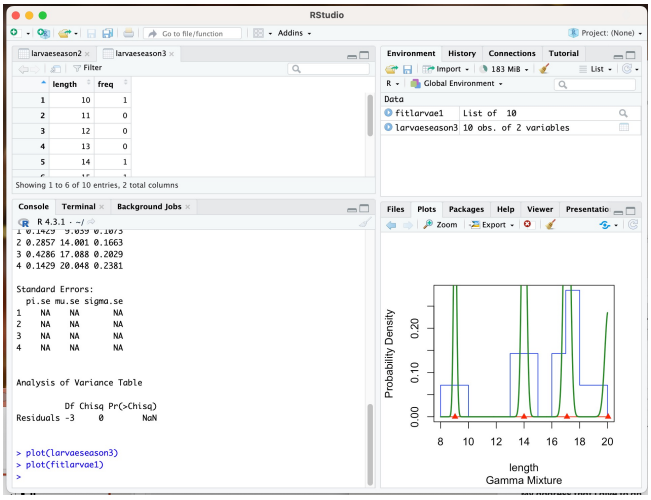




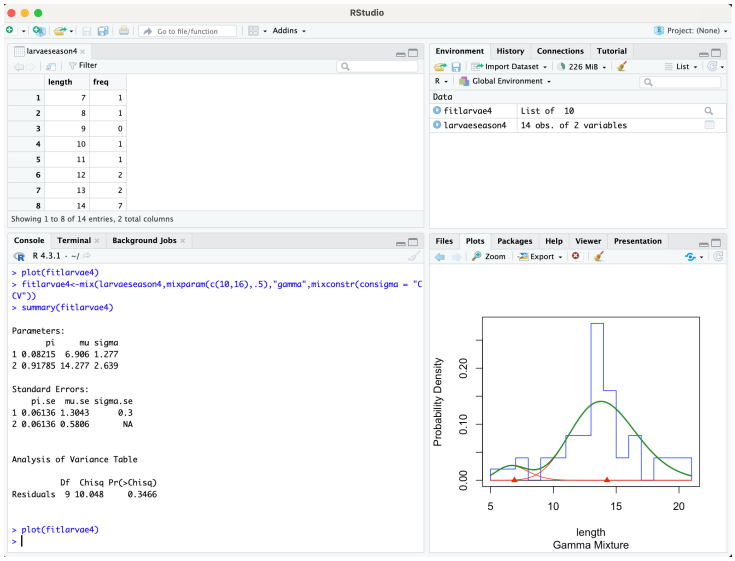
SEASON 3 DATASET

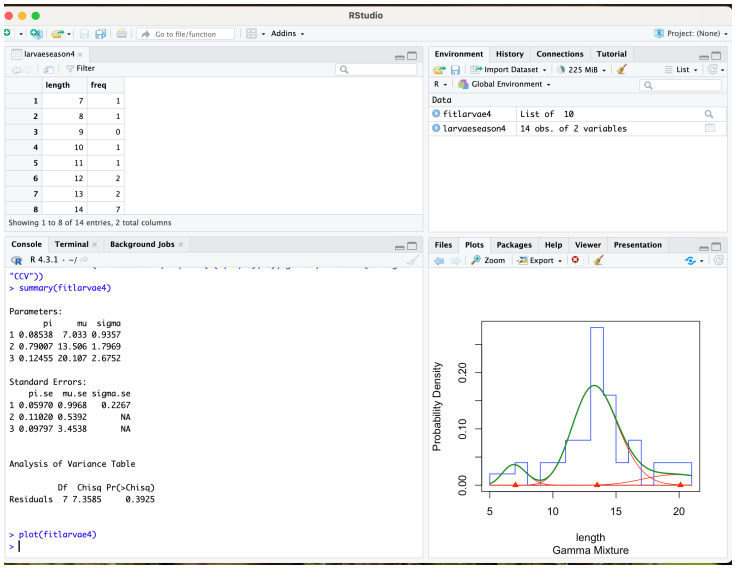


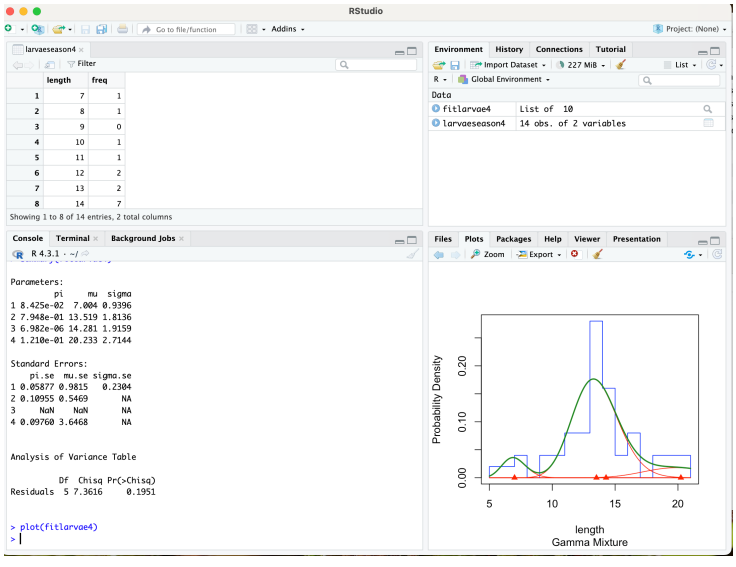




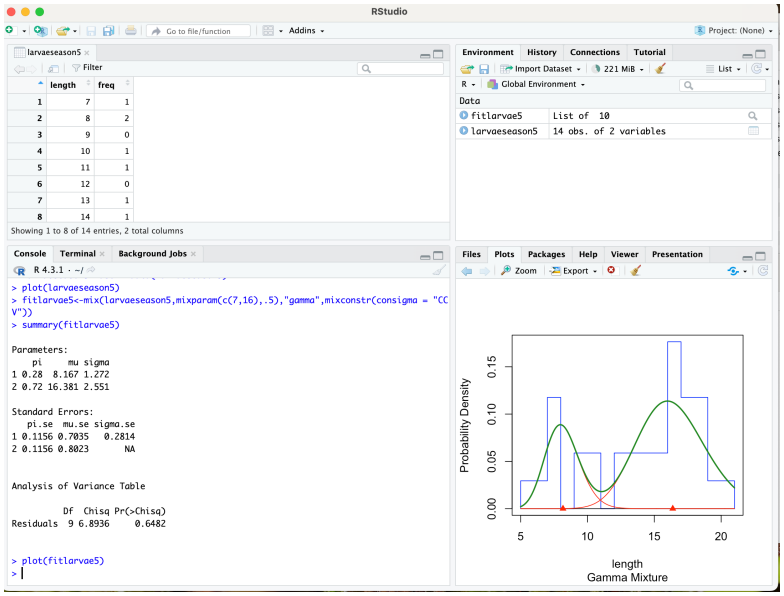
SEASON 4 DATASET

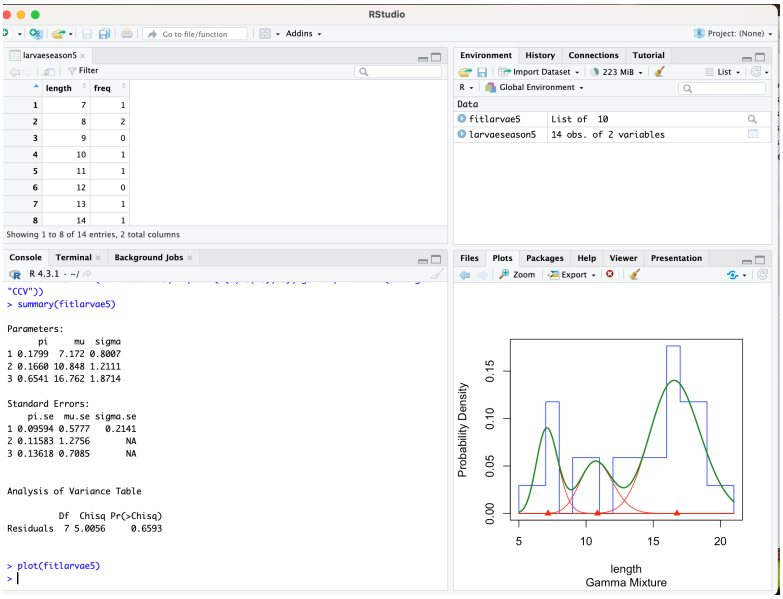


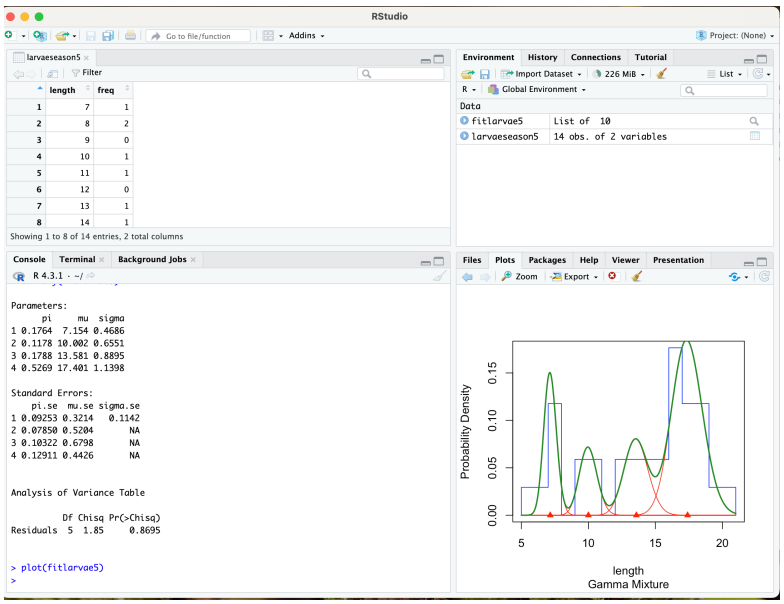
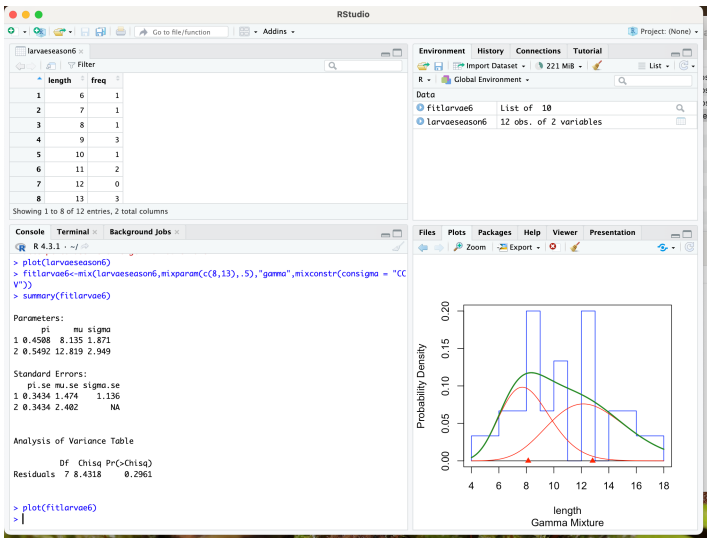
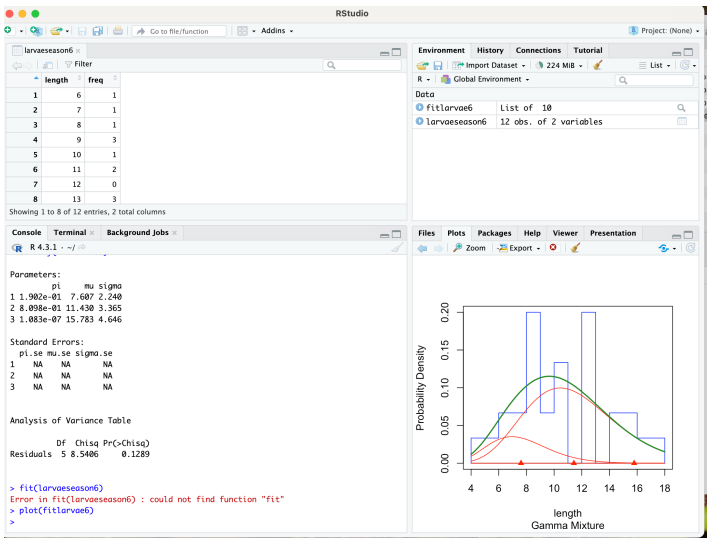
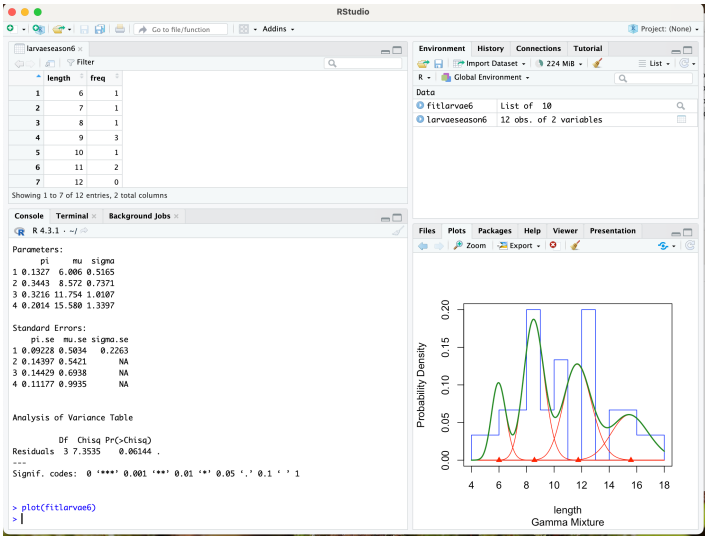
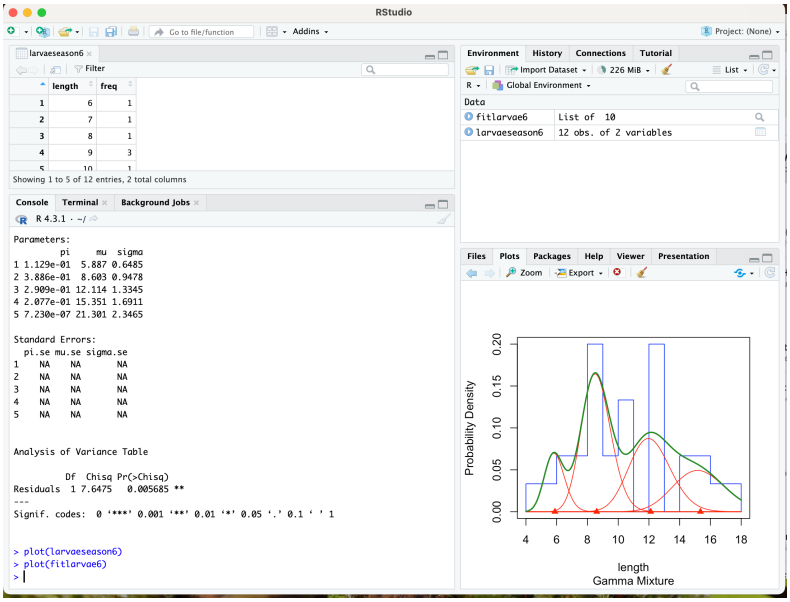




SEASON 5 DATASET







SEASON 6 DATASET