

Group 31 A1 9.25/12 → 4.625/6

1. Formatting:

- all margins 2.5cm
- informative title
- 12 pt size
- member names on all pgs
- no raw R code or output**
- all pages numbered
- max 7 pages
- no blurry plots (**NOT** png)

2. Introduction/Background:

- brief statement of scientific question
- all variables defined

3. EDA:

- univariate numerical
- bivariate numerical (cor)
- univariate graphical
- bivariate graphical → square plots

4. Model fitting:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

histograms, not boxplots!
Write formulas mathematically NOT R-formula (above Eq. (1))
- interpret coefs - how does Fig 3 indicate possible interaction?

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, - SQUARE
residuals vs. fitted

- 'supports' not 'confirms' normality
- outliers?
- plot interp. for homoscedasticity
- 'supported' not 'validated'

6.25

1/1

6. Write out final estimated model **mathematically**

(hat on response variable)

max 2 sig digits on coefs

0.75/1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.5/1

8. Conclusions

recap analysis

(state main findings)

0.75/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

- ref for lin. model (anova)

Group 32 A1 9/12 → 4.5/6

1. Formatting:

1/1

- all margins 2.5cm
- informative title
- 12 pt size
- member names on all pgs
- no raw R code or output
- all pages numbered
- max 7 pages
- no blurry plots (**NOT** png)

2. Introduction/Background:

1/1

- brief statement of scientific question
- all variables defined

3. EDA:

1/2

- univariate numerical
 - bivariate numerical (cor)
 - univariate graphical
 - bivariate graphical
- all vars*
(don't need normal qq, Shapiro-Wilk)

4. Model fitting:

1/2

- state how model fitted (ie, LS)
- write models mathematically
- NOT as R formula
- CLEARLY describe how model selected
- define all terms - AIC, forward, backward
- interpret coeffs

1.75

5. Model assessment:

CLEARLY state model assumptions:

- errors have mean 0
- errors are homoscedastic (same variance)
- errors are uncorrelated
- errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals,
residuals vs. fitted

SQUARE

- since predicting rate of advance, don't include advance as a variable predictor

5.75

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

8. Conclusions

expand
(recap analysis)

start new paragraph
(state main findings)

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

- refs data + methods

3.25

Group 33 A1 8/12 → 4/6

1. Formatting:

0.75/1

all margins 2.5cm

informative title

12-pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT png**)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA:

1.5/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical - SQUARE

4. Model fitting:

0.75/2

state how model fitted (ie, LS)

- write models mathematically
NOT as R formula

CLEARLY describe how model selected

define all terms - what are B_{11} , B_{12} , etc...
+ interpret coeffs

5. Model assessment:

1.5/2

CLEARLY state model assumptions:

- 1 errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals, - SQUARE,
residuals vs. fitted

'supporting' not 'confirming' / not 'validated'
- interpret qq plot

5.5

0.5/1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

1/1

0.5/1

8. Conclusions

recap analysis

state main findings

0.5/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

- ref data + methods

2.5

4.75/12 → 2.375/6

Group 34 A1 Billon Charbonnet
(M R)

1. Formatting:

0.5/1

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA:

1/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical - square

4. Model fitting:

0.75/2

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

coefs?

5. Model assessment:

0.75/2

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals,
residuals vs. fitted

(plots too large)

4

0.25/1

6. Write out final estimated model **mathematically**

incomplete

hat on response variable

max 2 sig digits on coefs

0.25/1

7. Plots:

label size (not too small)

(placement)

captions

NOT BLURRY

Each fig should be numbered, have a caption and be referred to in text

0/1

8. Conclusions

recap analysis

state main findings

0.25/1

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

(incomplete)

refs (data + methods)

0.75

Group 35 A1 9.5/12 → 4.75/6

1. Formatting:

all margins 2.5cm

informative title

1/1
(12 pt size)

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT png**)

2. Introduction/Background:

1/1
brief statement of scientific question

all variables defined

1.5/2
3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

1.5/2
4. Model fitting:

state how model fitted (ie, LS) - write models mathematically

CLEARLY describe how model selected

not as R formula

(define all terms)

interpret coeffs

1.5/2
5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,
residuals vs. fitted

SQUARE

Don't need fig 7

interpret plot

6.5

0.75/1

6. Write out final estimated model **mathematically**

hat on response variable

(max **2 sig digits**) on coefs

1/1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.5/1

8. Conclusions

recap analysis

state main findings

0.75/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

refs - methods

Group

36 A1

9.5/12 → 4.75/6

1. Formatting:

all margins 2.5cm

informative title

(12 pt size)

member names on all pgs

no raw R code or output

all pages numbered

~~max 7 pages~~

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

~~univariate numerical~~ OR

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

interpret coeffs

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,
residuals vs. fitted

misplaced - put
after model fitting

- SQUARE plots

6.75

Group 37 A1 9/12 → 4.5/6

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max 7 pages

informative title

member names on all pgs

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA: - Table (figure) 1 - pas nécessaire

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms - AIC

écrire modèle mathématiquement

5. Model assessment:

(CLEARLY) state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,
residuals vs. fitted

- seulement nécessaire pour le modèle sélectionné

0/11 (*)

6. Write out final estimated model **mathematically** *→ incorporer les coefs en modèle (numériquement)*
hat on response variable max **2 sig digits** on coefs

0.75/11

7. Plots:
label size (not too small) captions
placement **NOT BLURRY**

0.5/11

8. Conclusions
recap analysis state main findings

0.75/11

9. Overall presentation (clarity of explanations, appropriate citations / references):
poor satisfactory **good** excellent

- refs - à la fin (pas en 'footnote'),
données et méthodes

2 (*) modèle ajusté incorrecte - $y = \alpha + \beta x$, et il faut plusieurs coefs pour variété et strain (# coefs = # niveaux - 1)

X Group

38 A1

8.5/12 → 4.25/6

Hakim
El Oazzari
Aouame

1. Formatting:

all margins 2.5cm

informative title

(12 pt size)

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

- not a 1-way ANOVA

write model mathematically
in 'ANOVA' section, including
ALL coefs

where is ANOVA table?

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals,
residuals vs. fitted

interpret plots

6.25

0.75/1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

7. Plots:

0.5/1

label size (not too small)

placement

captions

Each fig should have # add caption

NOT BLURRY

0.5/1

8. Conclusions

recap analysis

state main findings

0.5/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

- your logic is difficult to follow

- refs - data + methods

2.25

Group 39 A1 7.75/12 → 3.875/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT png**)

open quotes: " (not ")

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

Exploratory

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

state how model fitted (ie, LS)

first write model mathematically

CLEARLY describe how model selected

define all terms

5. Model assessment:

after model fitting

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals,
residuals vs. fitted

interpret plots

5.25

0.75/1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.75/1

7. Plots.

label size (not too small)

captions

placement

NOT BLURRY

0.5/1

8. Conclusions

recap analysis

state main findings

0.5/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

- refs (data + methods)

- explain what you are doing in model fitting / selection

2.5

Group 40 A1 8.5/12 → 4.25/6

1. Formatting:

- all margins 2.5cm
- informative title
- 12 pt size
- member names on all pgs
- no raw R code or output**
- all pages numbered
- max 7 pages
- no blurry plots (**NOT png**)

2. Introduction/Background:

- brief statement of scientific question
- all variables defined

3. EDA:

- univariate numerical
- bivariate numerical (cor)
- univariate graphical *OK*
- bivariate graphical - *square*

4. Model fitting:

- state how model fitted (ie, LS)
- CLEARLY describe how model selected**
- define all terms

refined?
 Coefs: $\hat{\beta}$ (not X)
 write model mathematically (p.3)

5. Model assessment:

CLEARLY state model assumptions:

- errors have mean 0
- errors are homoscedastic (same variance)
- errors are uncorrelated
- errors are normally distributed

carry out assessment (graphics):
 qq normal plot of residuals,
 residuals vs. fitted

interpret plots

0.75/1

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

0.75/1

7. Plots:

label size (not too small)

captions

Each fig should have a number, caption and be referred to in the text

placement

NOT BLURRY

0.5/1

8. Conclusions

- CI plot: use horizontal label style

recap analysis

state main findings

0.5/1

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

- cite primary refs

2.5

9/12 → 4.5/6

Group 41 A1 (on R1 + in book)

1. Formatting:

- all margins 2.5cm
- informative title
- (12 pt size)
- member names on all pgs
- no raw R code or output**
- all pages numbered
- max 7 pages
- no blurry plots (**NOT png**)

2. Introduction/Background:

- brief statement of scientific question
- all variables defined

3. EDA:

- univariate numerical
- bivariate numerical (cor)
- univariate graphical *OK*
- bivariate graphical

4. Model fitting:

- state how model fitted (ie, LS)
 - CLEARLY describe how model selected
 - define all terms
- write out mathematical model you are fitting*

5. Model assessment:

- CLEARLY state model assumptions:
 1. errors have mean 0
 2. errors are homoscedastic (same variance)
 3. errors are uncorrelated
 4. errors are normally distributed

carry out assessment (graphics):
 qq normal plot of residuals,
 residuals vs. fitted

interpret plots
SQUARE

6.75

0.75

6. Write out final estimated model **mathematically**

(**hat** on response variable)

max **2 sig digits** on coefs

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

1/1

8. Conclusions

recap analysis

state main findings

0.5/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

0.5/1

- summary of coefs: Est, SE, t, p

- ref also for methods

2.75

6.25/12 → 3.125/6

Group 42 A1 (in R1) (and A1)

1. Formatting:

0.25/1

all margins 2.5cm

12 pt size

no raw R code or output

max 7 pages

↳ wrong file name
↳ 2 submissions

informative title

member names on all pgs

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA:

1/2

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

4. Model fitting:

1/2

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

- can't include interaction since no df error

your mathematical models are incorrectly characterized

5. Model assessment:

1.25/2

CLEARLY state model assumptions:

- errors have mean 0
- errors are homoscedastic (same variance)
- errors are uncorrelated
- errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals,
residuals vs. fitted

) SQUARE

→ choose 1 model that incorporates both
variety and strain

4.5

0/1 incorrect

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.75/1

7. Plots:

(label size) (not too small)

captions

placement

NOT BLURRY

0.5/1

8. Conclusions

recap analysis

state main findings

0.5/1

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

- refs (data + methods)

- don't copy/paste R output, use (for example) `xtable()` function in package

`xtable`

- your model should have $(\# \text{levels} - 1)$ coefs

for each factor - make sure that you

are including the variables as factors in `lm`

1.75

Group 43 A1

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

~~max 7 pages~~

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

write out model mathematically
results? anova table? equation?

5. Model assessment:

CLEARLY state model assumptions.

- errors have mean 0
- errors are homoscedastic (same variance)
- errors are uncorrelated
- errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

→ Variety, strain, weight are variables (not pairs)

5.5

0/1

not done

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

0.5/1

7. Plots:

(label size (not too small)

captions

placement

NOT BLURRY

0.5/1

8. Conclusions

(recap analysis *expand*)

state main findings

0.5/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

- ref data + methods

- superficial - need to include what you are doing mathematically

Group U6 A1

10.5/12

→ 5.25/6

→ 6/6

good job!

(Don't need to re-do)

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT png**)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

state how model fitted (ie, LS)

model not completely correct by mathematically specified (4.7) (but ok)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,
residuals vs. fitted

(square)

1/1

1/1

1/2

1.75
2

2/2

6.75

6. Write out final estimated model **mathematically**

1/1

hat on response variable

max **2 sig digits** on coefs

7. Plots:

1/1

label size (not too small)

captions

placement

NOT BLURRY

8. Conclusions

1/1

recap analysis

state main findings

9. Overall presentation (clarity of explanations, appropriate citations / references) :

0.75/1

poor

satisfactory

good

excellent



- use 1 column format

good job!

3.75

7.75/12 → 3.875/6

Group 45 A1 (2 submitters)

1. Formatting:

1/1

- all margins 2.5cm
- informative title
- 12 pt size
- member names on all pgs
- no raw R code or output
- all pages numbered
- max 7 pages
- no blurry plots (NOT png)

2. Introduction/Background:

1/1

- brief statement of scientific question
- all variables defined

3. EDA:

1/2

- univariate numerical
- bivariate numerical (cor)
- univariate graphical
- bivariate graphical

4. Model fitting:

1.25/2

- state how model fitted (ie, LS)
- CLEARLY describe how model selected

write model mathematically in 'ANOVA' section, including ALL coeffs

define all terms
- not a 1-way anova

5. Model assessment:

1.25/2

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. ~~errors are uncorrelated~~
4. errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals,
residuals vs. fitted

) interpret plots

5.5

0.75/1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.5/1

7. Plots:

label size (not too small)

placement

captions

NOT BLURRY

Each fig should have # and caption, and be referred to in text

0.5/1

8. Conclusions

recap analysis

state main findings

0.5/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

- your logic is difficult to follow

- refs - data + methods

2.25

Group 66 A1 8/12 → 9/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max ~~7~~ pages

no blurry plots (**NOT png**)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

~~univariate numerical~~ *OK*

bivariate numerical (cor)

~~univariate graphical~~

bivariate graphical

4. Model fitting:

state how model fitted (ie, LS)

write models mathematically, not as R formula

CLEARLY describe how model selected

define all terms *AIC*

5. Model assessment:

CLEARLY state model assumptions: *incomplete*

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):
qq normal plot of residuals,
residuals vs. fitted

square + interpret plots

0.75 / 1

no \wedge on predictor vars

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

1 / 1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.5 / 1

8. Conclusions

(expand
recap analysis)

state main findings

0.5 / 1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

- refs (methods)

- don't use footnotes, explain everything in the text

- v & f are predictor variables, RateAdv is

response variable

2.75

Group 68 A1 8/12 → 4/6

1. Formatting:

1/1

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

~~max 7 pages~~

no blurry plots (**NOT png**)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

1.5/2

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

put in table, not in text

4. Model fitting:

1/2

state how model fitted (ie, LS)

write models mathematically not as R formula

CLEARLY describe how model selected

define all terms

model seems incorrect

1.25/2

5. Model assessment:

Do After model fitting

CLEARLY state model assumptions:

- errors have mean 0
- errors are homoscedastic (same variance)
- errors are uncorrelated
- errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,
residuals vs. fitted

- Don't need Shapiro-Wilk, Bartlett
- Your interpretation of Bartlett p-value incorrect

5.75

0.25/1

6. Write out final estimated model mathematically not as R formula

hat on response variable

max 2 sig digits on coefs

- incorrect formulation, vars not written as factors

0.75/1

7. Plots:

label size (not too small)

placement

captions

ALL figs numbered and captioned

NOT BLURRY

0.75/1

8. Conclusions

(expand)
recap analysis

state main findings

0.5/1

9. Overall presentation (clarity of explanations, appropriate citations / references) :

poor

satisfactory

good

excellent

- Ref methods

- your model does not seem to include variables

variety / strain as FACTORS, there should

be (#levels - 1) coefs for a factor with #levels

2.25

X Group AL 71

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT png**)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,
residuals vs. fitted

