

GLM: Name 270360

8.75/12 → 4.375/6 ^{good job!}

apprentice
1. Formatting:

0.5/0.5

all margins 2.5cm

(12 pt size)

no raw R code or output

max 7 pages OK

(informative title)

name on all pages

all pages numbered

no blurry plots (**NOT png**)

Don't need 'Individual project'

2. Introduction/Background:

0.5/0.5

brief statement of scientific question

all variables defined

2/2

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

1.25/2

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms - dispersion par?

Display deviance

5. Model assessment:

CLEARLY state model assumptions:

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

you use G before you define it

* fix i in $P(7 \times 2^k)$; clearly define + interpret Dummy vars

5.5

specify GEM in terms of η , linear predictor and link fn.

Where does this log like come from? incorrect deviance for Poisson

residuals not defined; define Cook's

you must add both $R^2 + R^3$ at same step

0.75/1

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

$\hat{\log(\text{app})} =$

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

1/1

7. Plots:

no error term in est. eq.

label size (not too small)

captions

placement

NOT BLURRY

0.75/1.5

8. Conclusions

recap analysis

(ok state main findings)

0.25/0.5

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

poor

satisfactory

good

excellent

0.5/1

10. Other comments:

- better to display math formulas, if you really want to keep in text, use $\text{\textbackslash displaystyle}$
- you need 2 digits after decimal for probs (in scientific notation \rightarrow there should not be any '0' values
- need references (Data + methods)

3.25

GLM: Name 271188

3/12 → 1.5/6

0.5/0.5

1. Formatting:

all margins 2.5cm

informative title

(12 pt size)

name on all pages

no raw R code or output

all pages numbered

max 7 pages *ok*

no blurry plots (NOT png)

0.5/0.5

2. Introduction/Background:

brief statement of scientific question

all variables defined

1.5/2

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

0/2

4. Model fitting: *(not done)*

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

0/2

5. Model assessment: *(not done)*

CLEARLY state model assumptions:

- 1. count outcome Poisson
- 2. independent obs
- 3. linear relation between log count and linear predictor
- 4. conditional mean = conditional variance

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

2.5

0/1

6. Write out final estimated model **mathematically** (incomplete)

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

0.5/1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0/1.5

8. Conclusions (not done)

recap analysis

state main findings

0/0.5

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

(incomplete)
poor satisfactory good excellent

10. Other comments:

- good start, keep going! 😊
- references (data and methods)

0.5

GLM: Name

200416

3/12

1.5/6

asthma

1. Formatting:

0.25/0.5

all margins 2.5cm

12 pt size

no raw R code or output

max 7 pages OK

informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

0.15/0.5

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

put results in table, not in text

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

- don't need t-test

4. Model fitting:

- captions need to be more specific

give mathematical definition of model (not R formula)

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC, etc.

section 3.1 - put results in table

what do the colors mean?

0.25/2

5. Model assessment:

CLEARLY state model assumptions:

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

not done - what you have described here is model SELECTION

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

- your model specification is not MATHEMATICAL and is INCOMPLETE

0.15/1 $\ln(\hat{\text{attack}})$ (not $\ln(\text{attack})$)

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

0.25/1 7. Plots:

label size (not too small)

placement) ok

captions

more descriptive

NOT BLURRY

0.75/1.5 8. Conclusions

recap analysis

be more detailed and
(state main findings) specific

0.25/0.5 9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

↳ much is unclear

0.25/1 10. Other comments:

- need references (data + methods)

- needs mathematical detail + specificity
what you have is rather superficial

GLM: Name

298495

5.5/12 → 2.75/6

1. Formatting:

- Don't need 'Ind. project' part
- title should not be a question
informative title

0.25/0.5

all margins 2.5cm

12 pt size

name on all pages

no raw R code or output

all pages numbered

max 7 pages OK

no blurry plots (NOT png)

(or tables)

2. Introduction/Background:

0.5/0.5

brief statement of scientific question

all variables defined

3. EDA:

1.5/2

min should be first

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

complete
give mathematical definition of model

show results of the intermediate models in table

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC, etc.

5. Model assessment:

1/2

CLEARLY state model assumptions:

+ explain

1. count outcome Poisson

2. independent obs

3. linear relation between log count and linear predictor

4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

scatterplots (linearity assumption)

- explain what you are doing here and why

0.75/ $\ln(\text{attack})$ not $\ln(\text{attack})$

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

0.25/ 7. Plots: all figures and tables should be numbered and have a caption

label size (not too small)

captions

placement (ok)

NOT BLURRY

0.25/ 8. Conclusions - histogram not very informative - bins too wide

recap analysis not done

state main findings

not coherent, explain clearly

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

poor / satisfactory good excellent

0.25/ 10. Other comments:

- need primary references (data + methods)

- your explanations lack **MATHEMATICAL** detail and specificity

- your last 2 models on last page look incorrect, please check

GLM: Name 297262

4.5/12 → 2.25/6
Circ complete

askung

1. Formatting:

0.5/0.5

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max 7 pages

(no blurry plots) **(NOT png)**

0.5/0.5

2. Introduction/Background:

brief statement of scientific question

all variables defined

vars | stats → (in table)

3. EDA:

1.75/2

univariate numerical

bivariate numerical (cor)

univariate graphical

- Don't need fig 3

bivariate graphical

0/2

4. Model fitting:

(not done)

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

0/2

5. Model assessment:

not done

CLEARLY state model assumptions:

- 1. count outcome Poisson
- 2. independent obs
- 3. linear relation between log count and linear predictor
- 4. conditional mean = conditional variance

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

- Don't use footnotes

2.25

0/1

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

(not done)

hat on response variable
(ok if coefs in table)

max 2 sig digits on coefs

0.75/1

7. Plots:

label size (not too small)

captions

placement

(NOT BLURRY)

0.5/1.5

8. Conclusions

recap analysis

(state main findings)

0.25/

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

incomplete

poor

satisfactory

good

excellent

0.25/1

10. Other comments:

- need references (data + methods)

- incomplete

1.75

GLM: Name 302048 5.25/12 → 2.625/6
warp breaks

1. Formatting:

0.25 / 0.5

all margins 2.5cm

12 pt size

no raw R code or output

max 7 pages *ok*

informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

0.5 / 0.5

brief statement of scientific question

all variables defined

3. EDA:

1/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.5 / 2

#obs for each? comb? give complete numerical summary

give mathematical definition of model

complete specification

state how model fitted (ie, maximum likelihood)

spell out

CLEARLY describe how model selected

define all terms

5. Model assessment:

0.75 / 2

CLEARLY state model assumptions:

- 1. count outcome Poisson
- 2. independent obs
- 3. linear relation between log count and linear predictor
- 4. conditional mean = conditional variance

why not plain Poisson? your narrative is hard to follow

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

square Q-Q plot

- 0.15 / 1
6. Write out final estimated model equation mathematically
 hat on response variable (ok if coefs in table) max 2 sig digits on coefs
- 0.75 / 1
7. Plots: - shapes include p-values rather than CIs
 label size (not too small) captions
 placement NOT BLURRY
- 0.5 / 1.5
8. Conclusions recap analysis + equation use paragraphs
 state main findings
- 0.25 / 0.5
9. Overall presentation (clarity of explanations, appropriate citations / references):
 poor / satisfactory / good / excellent
- 0.25 / 1
10. Other comments:
 - number and caption all figures and tables
 - Poisson (not poisson)
 - Negative Binomial
 - re-paginate, too much blank space
 - see previous page
 - clearly describe all methods
 - don't need to name R functions
 - need more CLEAR, mathematical detail
 - references for data, methods
- 2.25

GLM: Name
wasp breaker

310 312

5.5/12 → 2.75/6

1. Formatting:

0.5/0.5

all margins 2.5cm

12 pt size

no raw R code or output

~~max 7 pages~~

informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

0.5/0.5

2. Introduction/Background:

brief statement of scientific question

all variables defined

1/2

3. EDA:

univariate numerical

univariate graphical

give complete summaries

bivariate numerical (cor)

bivariate graphical

not cov

0.75/2

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

too superficial

specific to this problem, what is y?

0.5/2

5. Model assessment:

CLEARLY state model assumptions:

1. count outcome Poisson

2. independent obs

3. linear relation between log count and linear predictor

4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

scatterplots (linearity assumption)

incomplete

3.25

0.25/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

0.25/1

7. Plots: *-interpret*

label size (not too small)

captions

placement

NOT BLURRY

1/1.5

8. Conclusions

recap analysis *expand*

state main findings *+ equation*

0.25/0.5

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

poor

satisfactory

good

excellent

0.5/1

10. Other comments:

- need references (data and methods)

- mathematically vague - your

explanations should be complete and

specific to this analysis

2.25

GLM: Name 329033
WNV

5.75/12 → 2.875/6

1. Formatting:

0.5/0.5

all margins 2.5cm

(12 pt size)

no raw R code or output

informative title

name on all pages

all pages numbered

0.5/0.5

max 7 pages *ok*

no blurry plots (**NOT png**)

2. Introduction/Background:

brief statement of scientific question

all variables defined

1.5/2

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

histograms

bivariate graphical

0.25/2

4. Model fitting:

give mathematical definition of model

not R formula

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

give complete GLM

define all terms

where do p-values come from?

5. Model assessment:

0.25/2

CLEARLY state model assumptions:

not complete

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

↔ not $\log \mu$, $\log Y$ (the count, not the average)
- Distribution?

0.75/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

(offset term)

0.5/1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.75/1.5

8. Conclusions

recap analysis

(ok)

state main findings

0.25/2.5

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

poor

satisfactory

good

excellent

0.5

10. Other comments:

- Cite primary refs - J. Bruin not primary,

see eg. Dobson ; not book down, see

Intro GLMs

Nelder + Wedderburn
GLMs

2.75

GLM: Name 342530

6.5/12 → 3.25/6

asthma

1. Formatting:

0.5/0.5

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT png**)

0.5/0.5

2. Introduction/Background:

brief statement of scientific question

all variables defined

1/2

3. EDA:

Exploratory (not Explorative)
put in table

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

(all vars)

0.75/2

4. Model fitting:

(incomplete)

give mathematical definition of model

Complete specification

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

be very specific

define all terms

AIC etc

$P < 0.05$

1/2

5. Model assessment:

- not 'goodness of fit' test in the classical sense

CLEARLY state model assumptions:

incomplete

1. count outcome Poisson

2. independent obs

3. linear relation between log count and linear predictor

4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

scatterplots (linearity assumption)

+ EXPLAIN MATHEMATICALLY

- Don't put model in Intro
- please name each model in the text, your narrative is hard to follow

3.75

0.75/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

In last time

0.5/1

7. Plots:

label size (not too small)

placement

captions

make more descriptive

NOT BLURRY

0.75/1.5

8. Conclusions

recap analysis

not done

*ok - start in new paragraphs
state main findings*

0.25/0.5

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

poor

satisfactory

good

excellent

0.5/1

10. Other comments:

- use Primary refs

- Don't need all the outlier charts at the end

- use 3 digits after decimal, should not have p-values = 0

2.75

GLM: Name 343883

5.75/12 → 2.875/6

WNV

1. Formatting:

0.25 / 0.5

all margins 2.5cm

(12 pt size)

no raw R code or output

max 7 pages

informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

0.5 / 0.5

2. Introduction/Background:

brief statement of scientific question

all variables defined

1.5 / 2

3. EDA: + fig 1 too small

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

1 / 2

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

Write using the linear predictor + specify link
AIC? Deviance?
not clear

0 / 2

5. Model assessment:

CLEARLY state model assumptions:

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

not done?

3.25

0.75/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

0.25/1

7. Plots:

label size (not too small)

captions

placement

Fig 3 before conclusions

NOT BLURRY

0.75/1.5

8. Conclusions

recap analysis

ok + equation
state main findings

0.25/0.5

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

poor

satisfactory

good

excellent

0.5/1

10. Other comments:

- remove cover sheet and abstract

- don't need my name (I already know it! 😊)

- cite refs in text, use primary refs

2.5

GLM: Name

343914

4.5/12 → 2.25/6

1. Formatting:

0.5 / 0.5

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max 7 pages

(no blurry plots) (NOT png)

2. Introduction/Background:

0.5 / 0.5

brief statement of scientific question

all variables defined

stats →

3. EDA:

table vars ↓

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.75 / 2

give mathematical definition of model

incomplete and misplaced

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

↳ Analysis of Deviance (NOT goodness of fit)

5. Model assessment:

0.5 / 2

CLEARLY state model assumptions:

not done not complete

1. count outcome Poisson

2. independent obs

3. linear relation between log count and linear predictor

4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

scatterplots (linearity assumption)

→ Don't put model in intro
what type of residuals you are using
make sure that you carefully define

2.25

0.75/1

$\log(y)$

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

hat on response variable
(ok if coefs in table)

max 2 sig digits on coefs

0.25/1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.5/1.5

8. Conclusions

recap analysis

expand

need to revise
state main findings

0.25/0.5

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

poor

satisfactory

good

excellent

0.5/1

10. Other comments:

- need references (data + methods)

- all figs + tables need to be numbered,

have a caption and be described + referred to
in text

- your tables are confusing, please try to clarify

- re-organize

- needs more mathematical detail and specificity

2.25

352002

GLM: Name

apprentice

0.5/0.5

1. Formatting:

all margins 2.5cm

(12 pt size)

no raw R code or output

max 7 pages OK

informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

(* Don't need to re-do, this will be 6/6)

Don't need 2nd line

good job!

0.5/0.5

2. Introduction/Background:

brief statement of scientific question

all variables defined

make title specific to this data set

1.5/2

3. EDA:

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

(Fig 3 square)

1.75/2

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms AIC

2/2

5. Model assessment:

CLEARLY state model assumptions:

- 1. count outcome Poisson
- 2. independent obs
- 3. linear relation between log count and linear predictor
- 4. conditional mean = conditional variance

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

good job!

6.25

0.75/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

1/1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

1.25/1.5

8. Conclusions

recap analysis

state main findings

0.5/0.5

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

poor

satisfactory

good

excellent

0.75/1

10. Other comments:

+ give primary ref(s) for GLMs

(eg, Dobson or Nelder/Wedderburn)

4.25

GLM: Name 354976

9/12 →

4.5/6

warpbreaks

good job!

1. Formatting:

0.5 / 0.5

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

⇒ do not " to open quote

2. Introduction/Background:

0.5 / 0.5

brief statement of scientific question

all variables defined

3. EDA:

1.5 / 2

univariate numerical

put all summary stats in a table

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.75 / 2

give mathematical definition of model

not clear

state how model fitted (ie, maximum likelihood)

define error structure

CLEARLY describe how model selected

used (not the R function) define AIC, method

define all terms

5. Model assessment:

1.25 / 2

CLEARLY state model assumptions:

- 1. count outcome Poisson
- 2. independent obs
- 3. linear relation between log count and linear predictor
- 4. conditional mean = conditional variance

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

+ explain

- you don't 'validate' the assumptions, you assess them

0.5/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

*numbers in parentheses
not defined*

1/1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

1.5/1.5

8. Conclusions

recap analysis

state main findings

0.25/0.5

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

poor

satisfactory

good

excellent

0.75/1

10. Other comments:

- caption tables

- too many digits

- need references (data and methods)

Ⓢ Don't need to re-do, your score will be 6/6

9.75/12 → 4.875/6

GLM: Name 357699
asthma

(Don't need 2 line)

0.5/0.5

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max 7 pages

(no blurry plots (**NOT** png))

0.5/0.5

2. Introduction/Background:

brief statement of scientific question

all variables defined

1.75/2

3. EDA:

put all stats in table

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

1.75/2

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

deviance test?

define all terms

$(x_1, y_1), \dots$
 $(y_1, x_1), \dots$
AIC, Deviance Resids, Cooks, etc

1.75/2

5. Model assessment:

CLEARLY state model assumptions:

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

didn't do?

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

what is red line in Cook's plot?

6.25 → hat over everything

model 5;
 $\log EY|x$

too many digits in table

0.75/1 hat

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

0.5/1

7. Plots:

label size (not too small)

placement

captions

NOT BLURRY

all plots and tables should be numbered and have a relevant caption

1/1.5

8. Conclusions

recap analysis

state main findings

0.5/0.5

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

poor

satisfactory

good

excellent

0.75/1

10. Other comments:

- need primary references (data + methods)

- nice job! just some small things that would need fixing

3.5

GLM: Name

359544

8.75/12 → 9.375/6

WNV

1. Formatting:

good job!

0.5/0.5

all margins 2.5cm

informative title

(12 pt size)

name on all pages

no raw R code or output

all pages numbered

max 7 pages *ok*

(no blurry plots) (NOT png)

0.5/0.5

2. Introduction/Background:

brief statement of scientific question

all variables defined

1.5/2

3. EDA:

univariate numerical

bivariate numerical (cor)

include cor matrix

univariate graphical

bivariate graphical

4. Model fitting:

1/2

(incomplete)

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

→ make table: min --- max
eg.
area

instead of log_e on left-hand side

↳ give mathematical detail

5. Model assessment:

1.25/2

CLEARLY state model assumptions:

This needs to be more clear and complete

1. count outcome Poisson

2. independent obs

3. linear relation between log count and linear predictor

4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

scatterplots (linearity assumption)

(plots not completely clear + should be square (meanings))

4.75

1/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

1/1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

1/1.5

8. Conclusions

recap analysis

+ equation ✓

state main findings

0.25 / 0.5

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

poor

satisfactory

good

excellent

0.25 / 1

10. Other comments:

- additional references for methods

- needs additional detail and clarity

GLM: Name 360971
WNV

8.75/12 → 4.375/6

1. Formatting:

0.5/0.5 all margins 2.5cm
(12 pt size)

informative title

name on all pages

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

(leave out 'AB Final Project')
good job!

2. Introduction/Background:

0.5/0.5

brief statement of scientific question

all variables defined

3. EDA:

2/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical (square)

4. Model fitting:

1.5/2

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

since inside pairs plots, can remove Fig 1
You skip the prelim. version of the model
define BIC

including distribution (mathematically)

5. Model assessment:

1.25/2

CLEARLY state model assumptions:

why should resids be normal?

- 1. count outcome Poisson
- 2. independent obs
- 3. linear relation between log count and linear predictor
- 4. conditional mean = conditional variance

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

* mid page 4: $\log \left(\frac{2}{3} \right) =$
Poisson (not poisson)

5.75 $\left(\frac{2}{3} \right)$
 $\log \left(1 - \frac{2}{3} \right)$

0.75/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

0.5/1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.5/1.5

8. Conclusions

recap analysis

+ equation
state main findings

0.5/0.5

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

poor

satisfactory

good

excellent

0.75/1

10. Other comments:

- need references (data + methods)

- Poisson counts (not process)

- too many digits (in text)

- Fig 5 **BEFORE** conclusions

GLM: Name 365470

6/12 → 3/6

1. Formatting:

all margins 2.5cm

informative title

0.5/0.5 (12 pt size)

name on all pages

no raw R code or output

all pages numbered

max 7 pages *ok*

no blurry plots (NOT png)

2. Introduction/Background:

0.5/0.5

brief statement of scientific question

all variables defined

3. EDA:

6.5/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.75/2

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

*Describe a GLM
Distribution of
(log) Y?*

log y

5. Model assessment:

0/2

not done?

CLEARLY state model assumptions:

- 1. count outcome Poisson
- 2. independent obs
- 3. linear relation between log count and linear predictor
- 4. conditional mean = conditional variance

carry out assessment (numerical / graphics):
scatterplots (linearity assumption)

3.25

0.5/1

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

hat on response variable
(ok if coefs in table)

max **2 sig digits** on coefs

offset?

0.5/1

7. Plots:

log y

label size (not too small)

captions

placement

NOT BLURRY

1/1.5

8. Conclusions

recap analysis

(+ final equation)

state main findings

0.25/0.5

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

poor

satisfactory

good

excellent

0.5/1

10. Other comments:

- references - methods

2.75

GLM: Name

365395

5.5/12 → 2.75/6

asthma

1. Formatting:

0.5 / 0.5

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max 7 pages OK

no blurry plots (NOT png)

2. Introduction/Background:

0.5 / 0.5

brief statement of scientific question

all variables defined

1.75 / 2

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

put summary stats in table, not text

4. Model fitting:

0.5 / 2

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC, LRT, VIF, etc

your model is mis-specified or incomplete

5. Model assessment:

0.5 / 2

CLEARLY state model assumptions:

1. count outcome Poisson

2. independent obs

3. linear relation between log count and linear predictor

4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

scatterplots (linearity assumption)

I can't see how what you have done corresponds with this

3.75

0.25 / 1

100%

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

hat on response variable
(ok if coefs in table)

max 2 sig digits on coefs

not clear that what you got is correct

0.5 / 1

7. Plots:

label size (not too small)

captions

placement

NOT BLURRY

0.5 / 1.5

8. Conclusions

recap analysis

Expand

start new paragraph

state main findings

0.25 / 1.5

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

poor

satisfactory

good

excellent

Divide report into sections

0.25 / 1

10. Other comments:

- need references (data + methods)

- Give your report structure by dividing into sections: instead of Results

right at the beginning, put 'Exploratory Data Analysis', then bottom p.3 'Model Fitting', etc.

- This is a report on Generalized Linear Model

⇒ your outcome variable is a Count, so you need to apply appropriate glm methods, like Poisson regression + EXPLAIN MATHEMATICALLY

1.75