

To "Emily_Bjerre@fws.gov" <Emily_Bjerre@fws.gov>

cc "Margaret_Rheude@fws.gov" <Margaret_Rheude@fws.gov>, "Matthew_Stuber@fws.gov" <Matthew_Stuber@fws.gov>

bcc

Subject RE: model question

Who	Date	Time	Subject
Krych, Scott	04/19/2012	10:23 AM	RE: model question

Thanks Emily. I will give these tips a try.

Scott

From: Emily_Bjerre@fws.gov [mailto:Emily_Bjerre@fws.gov]

Sent: Wednesday, April 18, 2012 1:32 PM

To: Krych, Scott

Cc: Margaret_Rheude@fws.gov; Matthew_Stuber@fws.gov

Subject: RE: model question

Hey Scott,

I think the issue must be with R locating all of the correct files. I was able to paste the code from your e-mail directly into an R-script and run it without any issues.

A couple of trouble-shooting things to try...

- 1) make sure you have the rv package for r installed: require(rv)
- 2) if it isn't # 1, try commenting out the first part of the CollisionModel.R code that looks like this (this is the code that is telling R where to find the functions that we want it to use):

```
RPath<-"/Projects/Eagles/R"
# RPath<-"R"
sapply(c("FatalFcns","DistFcns","rvsmry"),function(iFcn)
invisible(source(paste(RPath,"/",iFcn,".R",sep="")))
)</pre>
```

and replace it with the following... but replace /Projects/Eagles/R/ with the path directory for FatalFcns.R, DistFcns.R, and rvsmry.R on your machine.

```
source("/Projects/Eagles/R/FatalFcns.R")
source("/Projects/Eagles/R/DistFcns.R")
source("/Projects/Eagles/R/rvsmry.R")
```

Here was the output from my run with the data you sent:

This is the exposure rate (eagle mins per km² per hr) based on the model inputs

This is the predicted annual fatality rate (eagles per yr) based on the model inputs

```
> #Annual Collision Fatalities
> print(FatalStats, digits=2)
  Names Mean     SD CI50 CI80 CI90 CI95
1 Overall  0.23  0.23  0.15  0.35  0.51  0.68
```

Let me know if you are still getting that error message once you try the fixes.

- Emily

Emily Bjerre
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"Krych, Scott" < Scott.Krych@hdrinc.com>

To "Emily Bjerre@fws.gov" < Emily Bjerre@fws.gov>

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SubjectRE: model question

```
Hi Emily,
Thank you for looking into this. Here is the data input file:
### Getty Project Data ###
cProject<-"Black Oak" #project ID to associate with model outputs
nTurbine<-c(52) #number of turbines
RotorDKm<-c(0.082) #Rotor diameterKm2
RotorRKm<-RotorDKm/2 #Rotor radii
RotorBuffKm<-(0) #Turbulence buffer
HazRadKm<-RotorRKm+RotorBuffKm # the rotor radius buffer is added to the rotor radius to determine the final
hazardous area radius for
# each turbine
HzKM2<-nTurbine*pi*HazRadKm^2 #Use the radius of the hazardous area around a turbine to calculate the total
hazardous area (in
#square kilometers) for the project by multiplying by the number of turbines
CntHr<-c(0.7166667) # count duration (in hours)
Days=c(365.25) # days to extrapolate a strata to (prediction)
# should total 1 year for annual collision fatality estimate
LtHrPerDay=c(12) # avg daylight hours per day for "Days" (previous line)
## Create the "ExpSvy" data frame
# this includes the Eagle Minutes observed, number of counts conducted,
# and the area observed at each observation point
ExpSvy<-data.frame(row.names=c("Overall"),</pre>
          EMin=c(7),
          nCnt=c(195),
          CntKM2=c(pi*(800/1000)^2),
          DayLtHr=c(Days*LtHrPerDay)
          )
```

AddTot<-FALSE #Add strata for total (TRUE) or not (FALSE)

Scott Krych

From: Emily Bjerre@fws.gov [mailto:Emily Bjerre@fws.gov]

Sent: Tuesday, April 17, 2012 8:49 AM

To: Margaret_Rheude@fws.gov

Cc: Matthew_Stuber@fws.gov; Krych, Scott

Subject: RE: model question

Hey Scott,

Hmm, the model does create a tmp object... but you shouldn't need to do anything with it. Could you send me your data input file so I can try to run it on my end? If you would prefer not to, I would suggest check to make sure your ExpSvy data frame looks correct.

Or let me know how many strata you are using and I can set up an input file that works and you can input your values into that to try to track down the problem.

- Emily

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Emily_Bjerre@fws.gov

Margaret Rheude/R3/FWS/DOI

To"Krych, Scott" < Scott.Krych@hdrinc.com >

04/17/2012 09:40 AM CCEmily Bjerre/AMBS/R9/FWS/DOI@FWS, Matthew Stuber/R3/FWS/DOI@FWS

 ${\sf Subject}_{\sf RE: \, model \, question} \underline{Link}$

Hi Scott,

I am passing your question on to Emily and Matt, who are probably better equipped to answer your question. Let me know if no one gets back to you.

Thanks,

Mags

Mags Rheude Wildlife Biologist

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"Krych, Scott" < Scott.Krych@hdrinc.com>

04/17/2012 04:40 AM

To "Margaret Rheude@fws.gov" < Margaret Rheude@fws.gov>

SubjectRE: model question

Hi Mags,

I have run the model and have one question. I am getting an error when running the collision model. Specifically, the error message is saying it cannot find the "tmp" value. I have walked through all of the modules and cannot find a "tmp" value or command. Is this value calculated from the Collision model? Or am I neglecting to provide a some information?

Thanks, Scott

From: Margaret_Rheude@fws.gov [mailto:Margaret_Rheude@fws.gov]

Sent: Friday, April 13, 2012 1:53 PM

To: Krych, Scott

Subject: Re: model question

Okay - I am not good at all on the model, however, if you send me specific questions I can forward them to Emily, who is our main modeler - she usually answers back really quickly and is pretty knowledgeable about this stuff. So, any questions you have, feel free to shoot them this way.

Thanks, Mags

Mags Rheude Wildlife Biologist Twin Cities Field Office 4101 American Blvd E Bloomington, MN 55425 margaret rheude@fws.gov 612-725-3548 x 2-202 612-725-3609 (fax)

"Krych, Scott" < Scott. Krych@hdrinc.com>

"Krych, Scott" < Scott.Krych@hdrinc.com>

04/13/2012 12:52 PM

cc

model question Subject

Hi Mags,

Disregard my last e-mail. I figured it out.

Thanks,

ScottHDR Engineering, Inc.

KrychEnvironmental Scientist

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