

---

```

%%%%%%%%%%%%%
% wetlands model with informed priors
%%%%%%%%%%%%%
clear;

% Set random number generator, start stop watch, open output file
%%%%%%%%%%%%%
rand('state',37); % set arbitrary seed for uniform draws
randn('state',37); % set arbitrary seed for normal draws

tic; % start stop watch

load c:\klaus\AAEC6564\mlab\worksp\wetlands;

% variable list

%1 study_id      study ID
%2 obs_id        w/in study observation ID
%3 users         percentage of active wetland users in sample
%4 lnwtp         log of annual wtp, in 2006 dollars
%5 lninc         log of mean (if reported for sample) or median
%              (if taken from census) HH income in 2006 dollars
%6 lnacres       log of wetland acres
%7 lnac2         log of wetland acres, squared

acres=exp(data(:,6));
ac000=acres/1000;

y=data(:,4);
n=length(y);

X=[ones(n,1) data(:,5) data(:,3) ac000];
% % contents of X:
%
% 1   constant
% 2   log(income)
% 3   users
% 4   wetland acres, in units of $1000

k=size(X,2);

% Estimation
%%%%%%%%%%%%%

%%%%%%%%%%%%%
% starting values, priors, and tuners
%%%%%%%%%%%%%
% general elements
r1=5000; % burn-in
r2=10000; % keepers
R=r1+r2;

```

---



---

```
finish = toc/60;
fprintf(fid,'Time elapsed in minutes \n\n');
fprintf(fid,'%6.3f\n',finish);

st=fclose(fid);
if st==0;
    disp('File closed successfully');
else;
    warning('Problem with closing file');
end;
```

*Published with MATLAB® R2022b*