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```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 132
% Program Description
%     ...
%
% Assignment Information
%   Assignment:          PS #02, Problem #3
%   Author:             Name, login@purdue.edu
%   Team ID:            001
%   Paired Programmer:  Yuefan Fu, ful94@purdue.edu
%   Contributor:        Name, login@purdue [repeat for each]
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

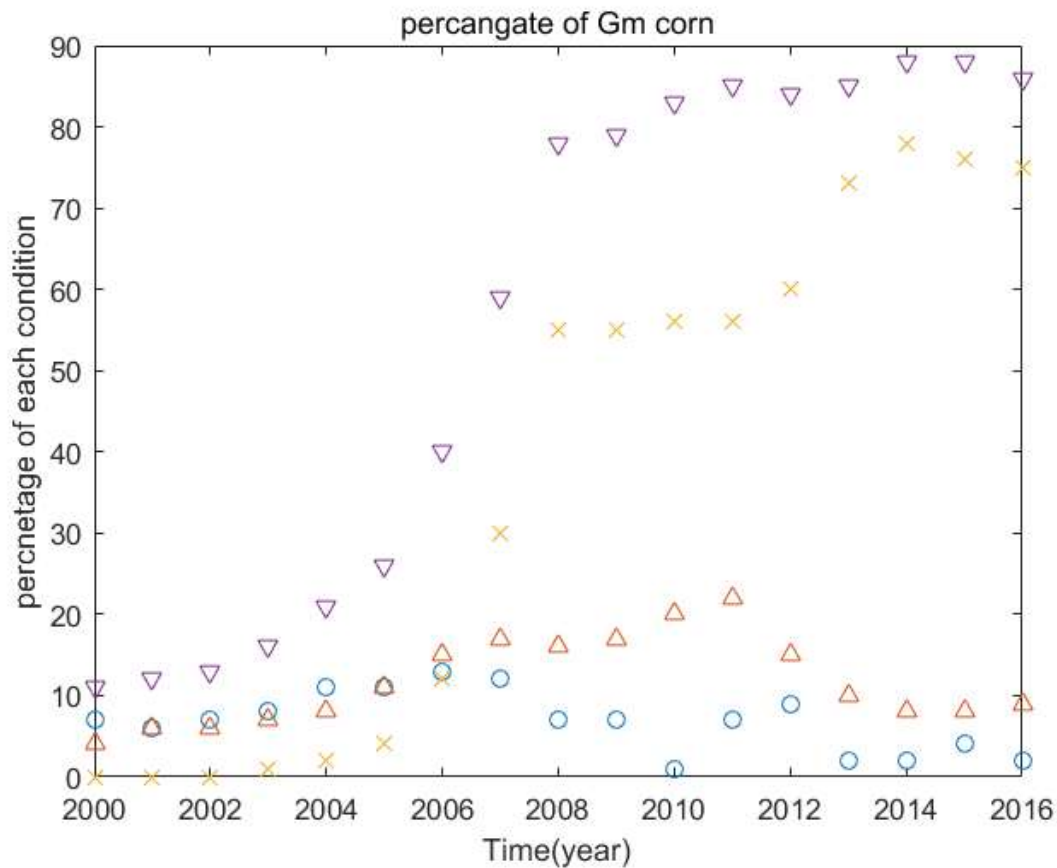
INITIALIZATION

```
data=csvread('Data_Indiana_GMcorn.csv',5,0);
year=data(:,1);
totalGmCorn=data(:,2);
bt=data(:,3);
ht=data(:,4);
stackedGene=data(:,5);
Acre=data(:,6);
Bushel=data(:,7);
Yield=data(:,8);
Value=data(:,9);
```

GM CORN VARIETIES PLOT

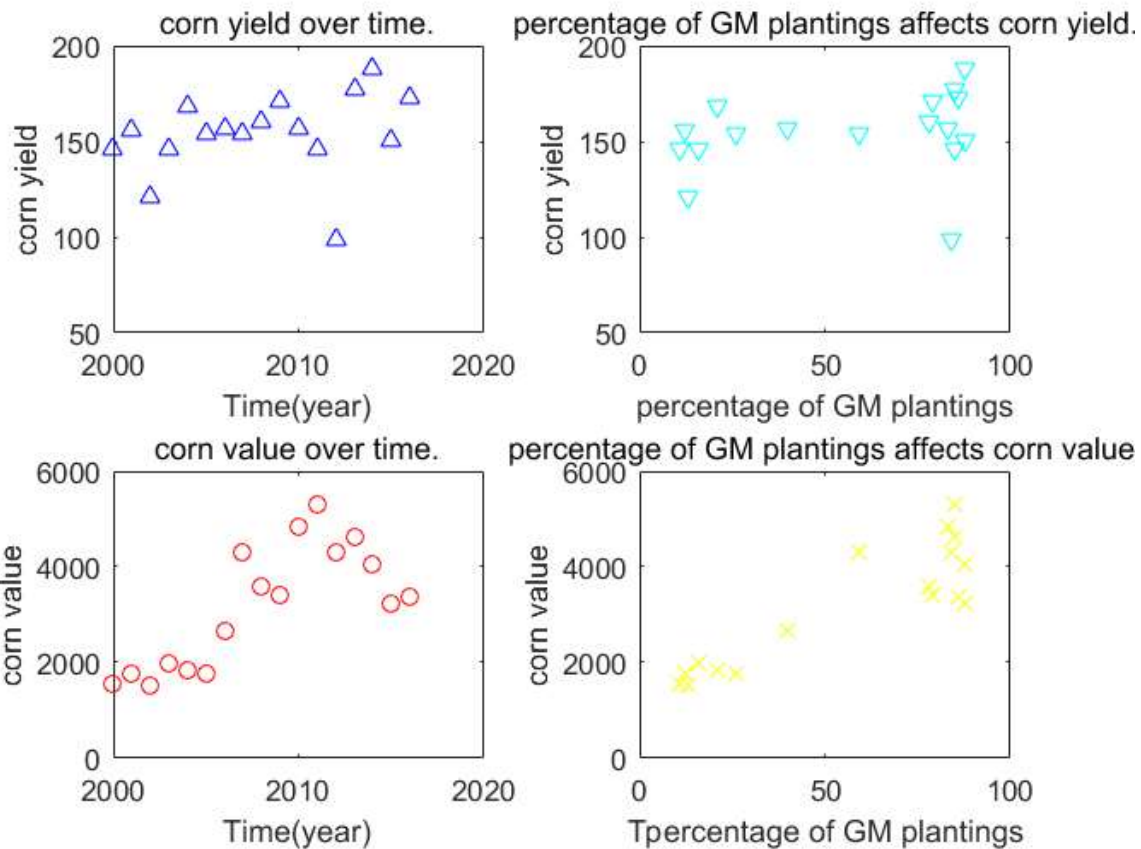
```
plot(year,bt,'o',year,ht,'^',year,stackedGene,'x',year,totalGmCorn,'v');
title('percangate of Gm corn');
```

```
xlabel('Time(year)');
ylabel('percnetage of each condition');
```



CORN PRODUCTION PLOT

```
subplot(2,2,1);
plot(year,Yield,'b^');
title('corn yield over time. ');
xlabel('Time(year) ');
ylabel('corn yield');
subplot(2,2,3);
plot(year,Value,'ro');
title('corn value over time. ');
xlabel('Time(year) ');
ylabel('corn value');
subplot(2,2,2);
plot(totalGmCorn,Yield,'cv');
title('percentage of GM plantings affects corn yield. ');
xlabel('percentage of GM plantings');
ylabel('corn yield');
subplot(2,2,4);
plot(totalGmCorn,Value,'yx');
title('percentage of GM plantings affects corn value. ');
xlabel('Tpercentage of GM plantings');
ylabel('corn value');
```



ANALYSIS

-- Q1

during 2000to 2008, it increase with acceleration. from 2008to 2016, it increase slower and vary at about 80% to 90%

-- Q2

subplot B

-- Q3

the corn value reach the max at 2010, and then decrease, so people plant stop increase the production of corn

-- Q4

grow more GM corn because accoring to subplot D, total value of corn increase with the percentage of GM corn increase

ACADEMIC INTEGRITY STATEMENT

I/We have not used source code obtained from any other unauthorized source, either modified or unmodified. Neither have I/we provided access to my/our code to another. The project I/we am/are submitting is my/our own original work.
