
SAS Codes for logistic regression analysis
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Code for frequency count.

```
proc freq data = logistic_lrt;  
tables Foodgrain_Yld*State /nocum nopercent;  
run;
```

Code for logistic analysis.

```
ods graphics on;  
proc logistic data=logistic_lrt  
plots (only)=(oddsratio(range=clip) effect);  
class State /param=ref;  
model Foodgrain_Yld(event='1')= State Min_Tem  
Rain/expb ;  
oddsratio State;  
oddsratio Min_Tem;  
oddsratio Rain;  
run;  
ods graphics off;
```

Code doe likelihood ratio test.

```
ods graphics on;  
proc logistic data=logistic_lrt ;  
class State ;  
model Foodgrain_Yld(event='1')= State Min_Tem Rain  
Min_Tem*Rain;  
run;  
ods graphics off;  
data chitab;  
chiscore=cinv(0.95,1);  
run;  
proc print data=chitab;  
run;  
data chitab;  
chipvalue=1-probchi(2.001,1);  
run;  
proc print data=chitab;  
run;
```