

R PROGRAMMING

EXPLORATORY DATA ANALYSIS OF AMAZON FIRES

Submitted by:

Surender Pratap Singh

Spencer David

Muhammed Nameer P

Athul Vaishnav c

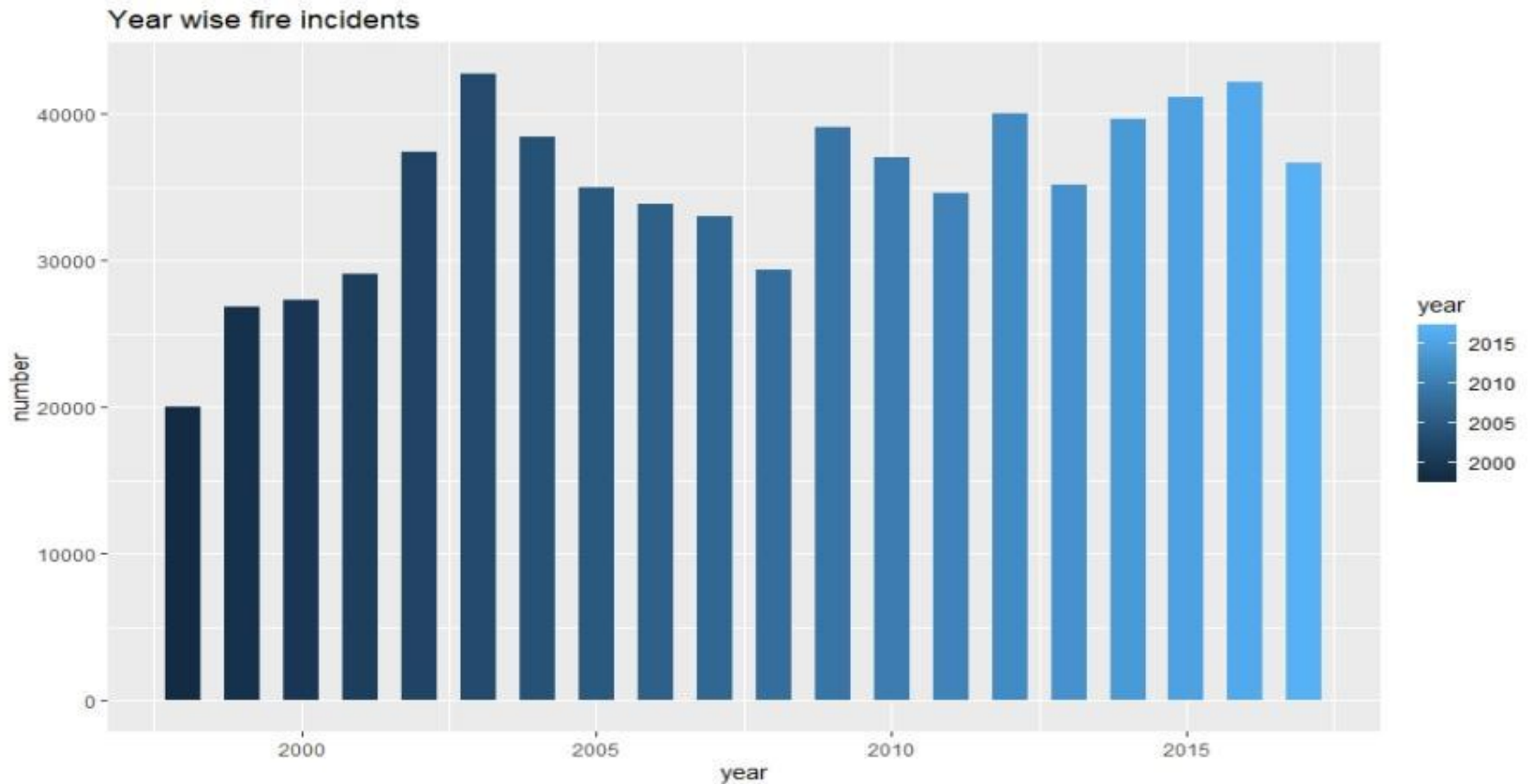
INTRODUCTION

- The Amazon rainforest, covering much of northwestern Brazil and extending into Colombia, Peru and other South American countries.
- It is the world's largest tropical rainforest, famed for its biodiversity.
- It produces world's twenty percentage oxygen.
- We are trying to visualize the past twenty years of data of amazon wild fires.
- The data were obtained from the official website of the Brazilian government.

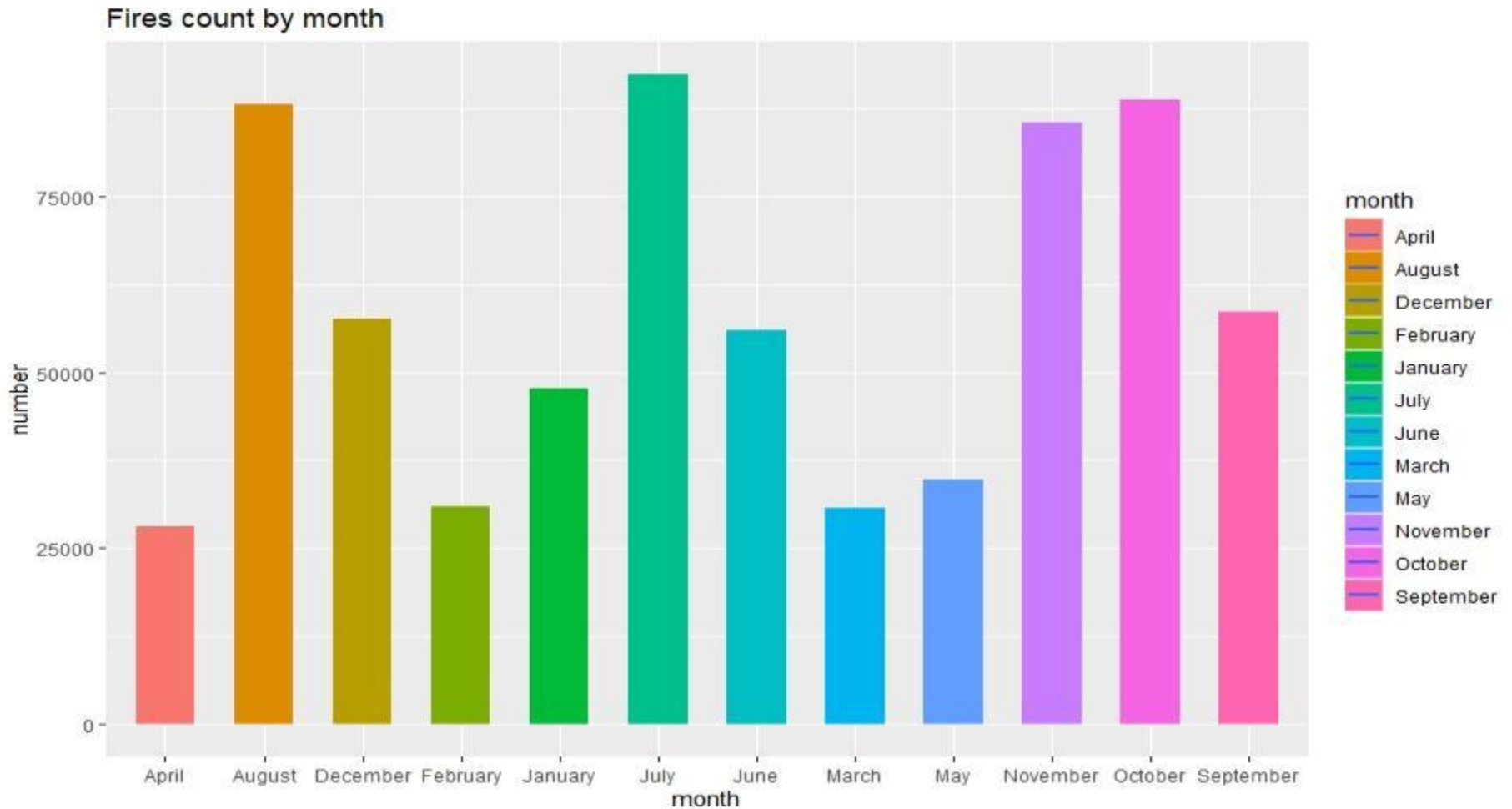
<http://dados.gov.br/dataset/sistema-nacional-de-informacoes-florestais-snif>

- The data set contains fire incidents by years, months and by state wise.

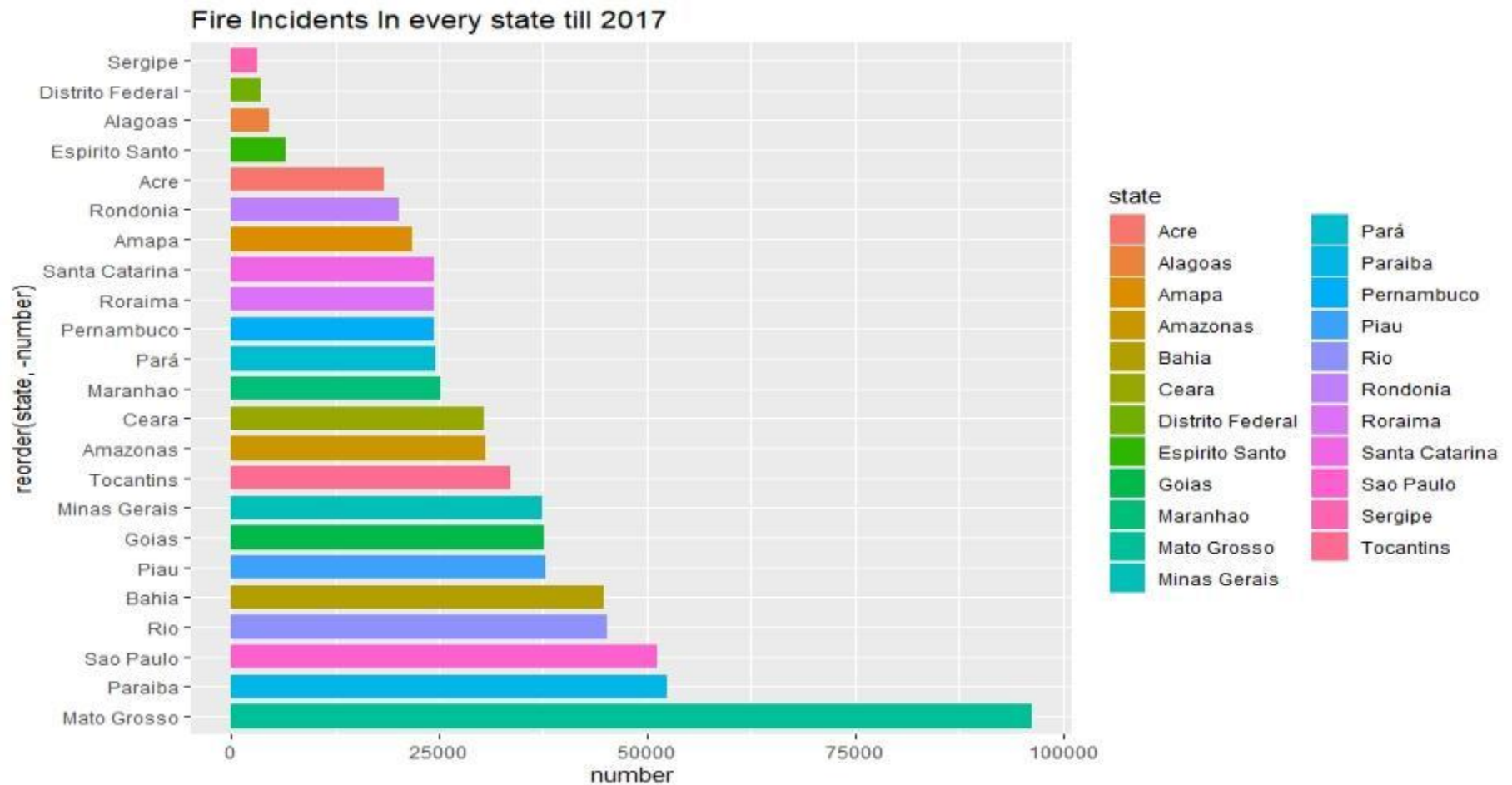
This plot shows the fire incidents happened year wise.



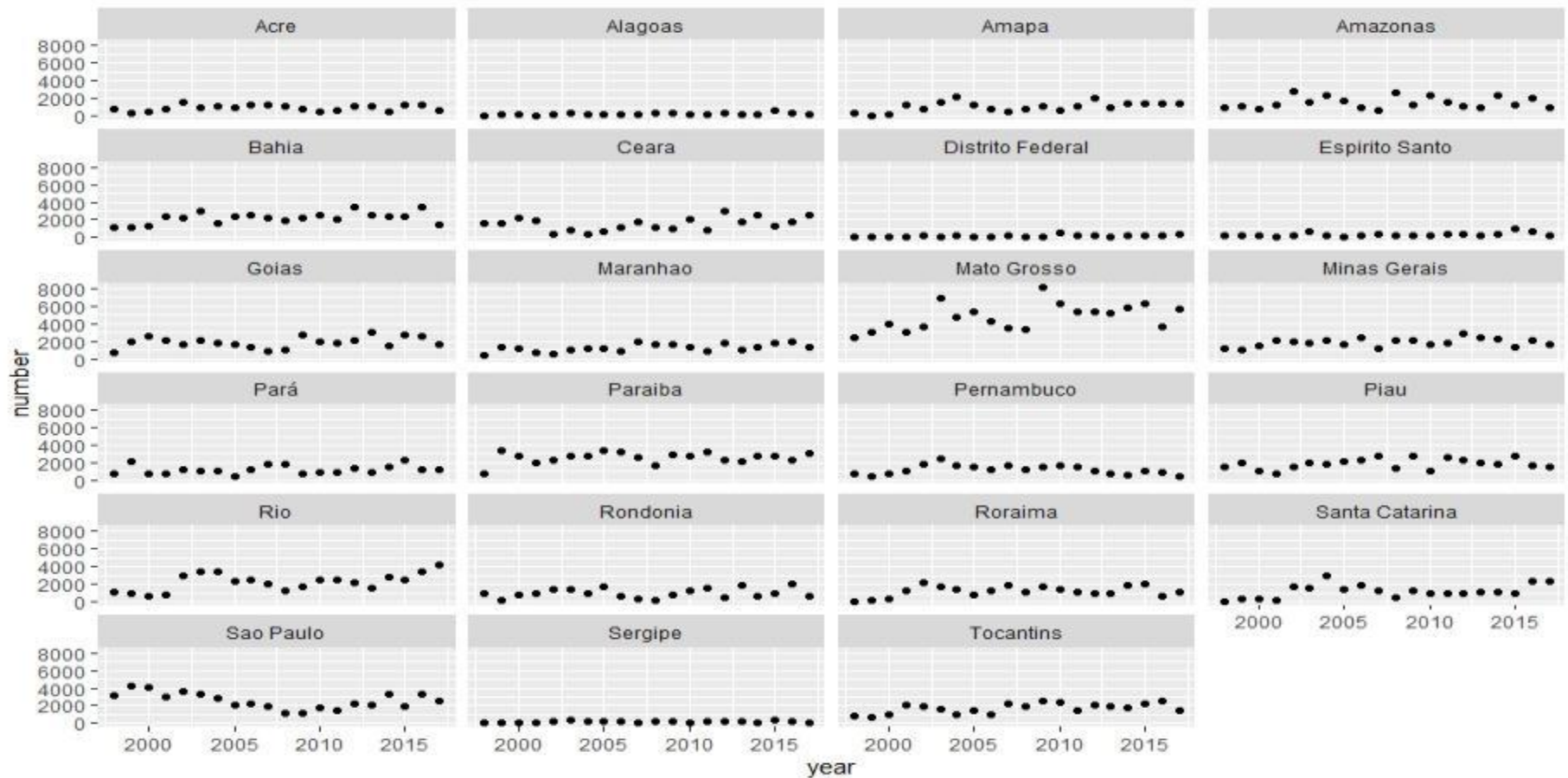
This plot shows the total fire incident happened month wise



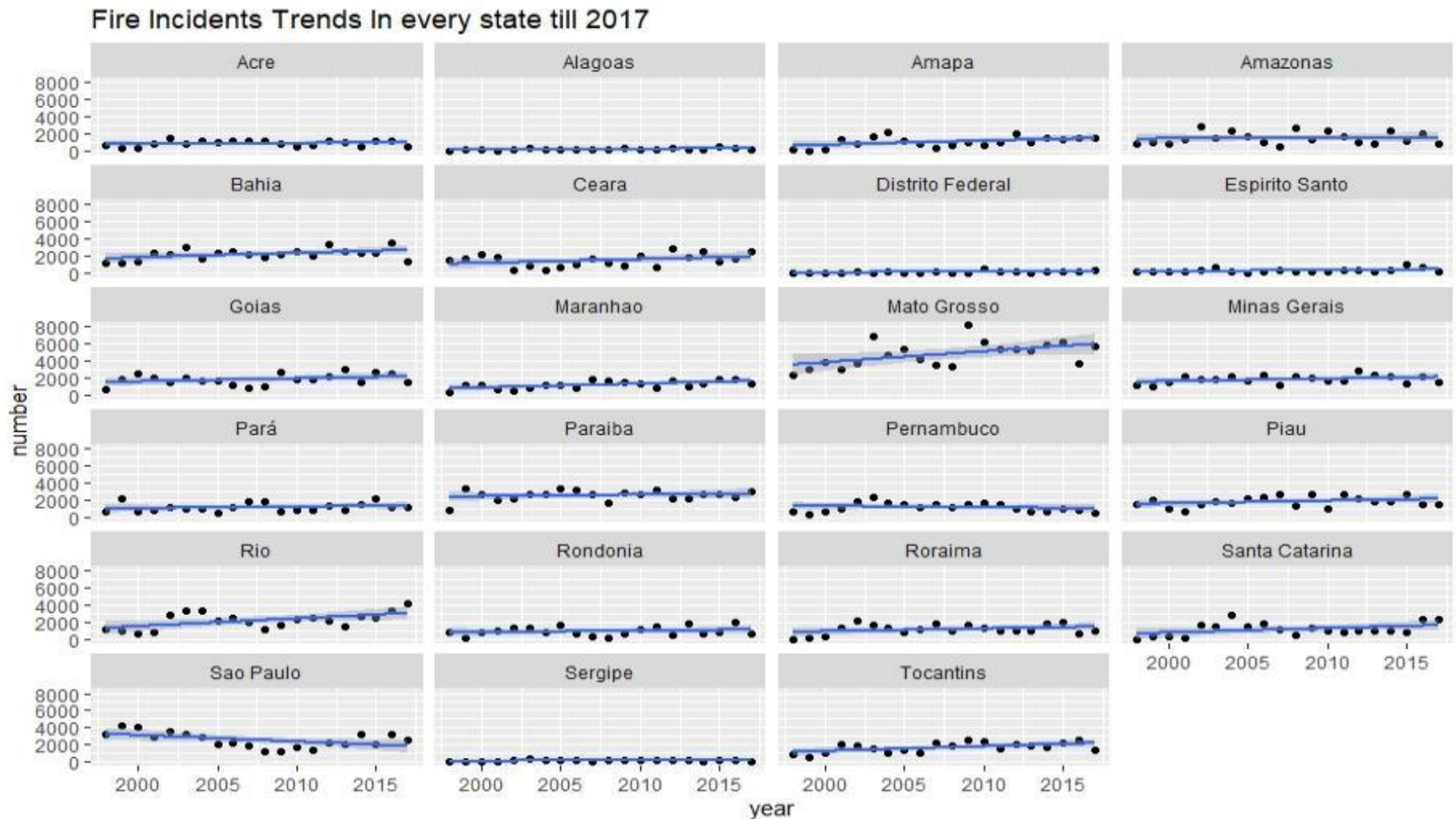
This plot shows the state wise fire incidents happened in last twenty years



This plot shows the trending of fire incidents in each state in last twenty years



This plot shows us the fire Incidents trends by each state.



Conclusion

- By plotting the graphs we came to understand that the fire incidents tends to increase From june and it remains that way till november.
- This happens due to the rising of the temperature.
- The state ,Mato Grosso ,has most number of fire incidents happened in last twenty Years
- The state Sergipe ,has the lowest number of fire incidents happened in last twenty years
- From February to April the chances of happening fire is very low
- The most number of Fire incidents happened in 2003
- The states like Rio, Sao paulo, Mato Grosso have very unstable trends for fire incidents