

# **Postal and Rural Life Insurance Policies from year 2001-02 to 2016-17**

## **1. INTRODUCTION**

### **1.1. Overview**

The data contains the yearwise distribution of number of policies in force along with the sum assured and Corpus fund for Postal and Rural Life Insurance Policies.

It also contains the percentage growth from the previous year for all the three parameters.

### **1.2. Purpose**

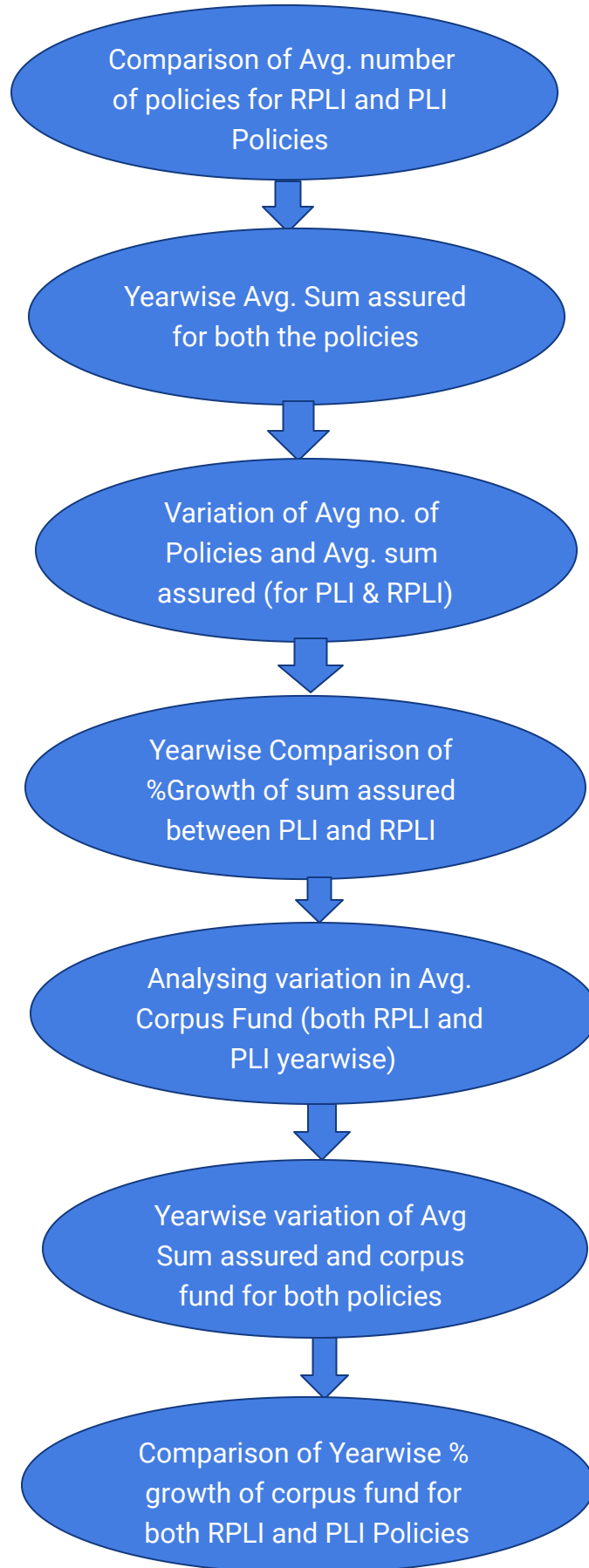
Analyzing the yearwise performance of Rural and Postal life insurance policies based on 3 parameters ie No. of Policies, Sum assured and Corpus fund.

## **2. EXPERIMENTAL INVESTIGATIONS**

Following points were taken into consideration while trying to analyze the problem.

- a. Analyzing the trend from the number of policies in force for both type of policies.
- b. Deriving insights by comparing yearwise average sum assured for both the policies.
- c. Identifying the impact of no. of policies with the sum assured for both type of policies.
- d. Comparing the trend in the % growth of sum assured for both policies
- e. Observing the yearwise varying trend of average Corpus fund.
- f. Analyzing the yearwise relationship between the sum assured and corpus fund
- g. Comparing the trend in the % growth of corpus funds for both policies.

### 3. FLOW CHART

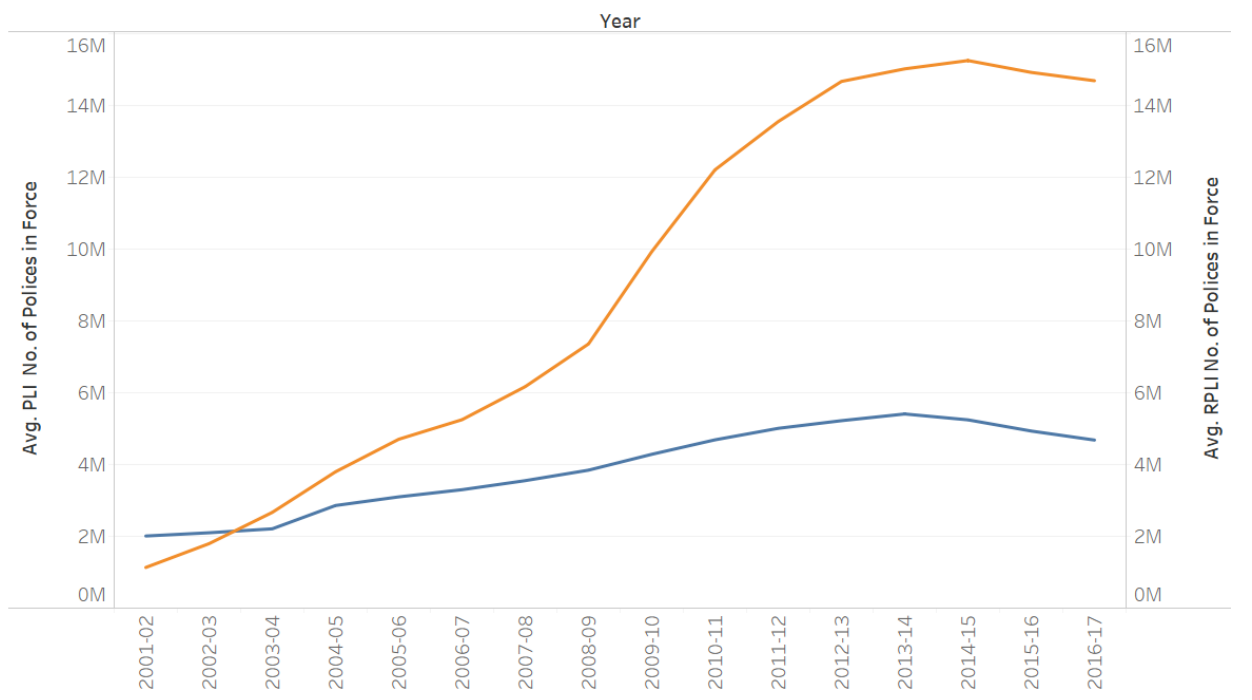


#### 4. RESULT

a. There was increase in the Average number of RPLI policies which was observed post 2002-03 which indicates that there might be a chance of more awareness towards RPLI Policies.

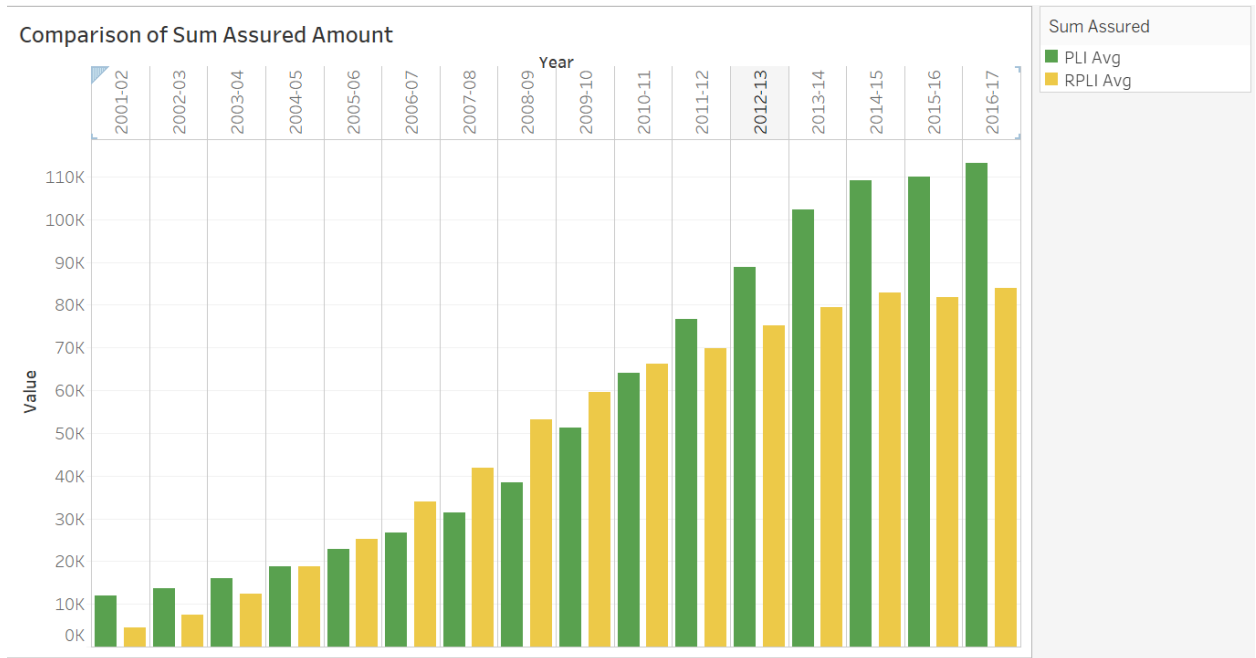
However there was declining no. of in force policies which was observed in case of both RPLI and PLI in the year 2015-16 and 2016-2017 which indicates that there might be a chance of other competitive policies in the market with better benefits.

Comparison of Number of policies



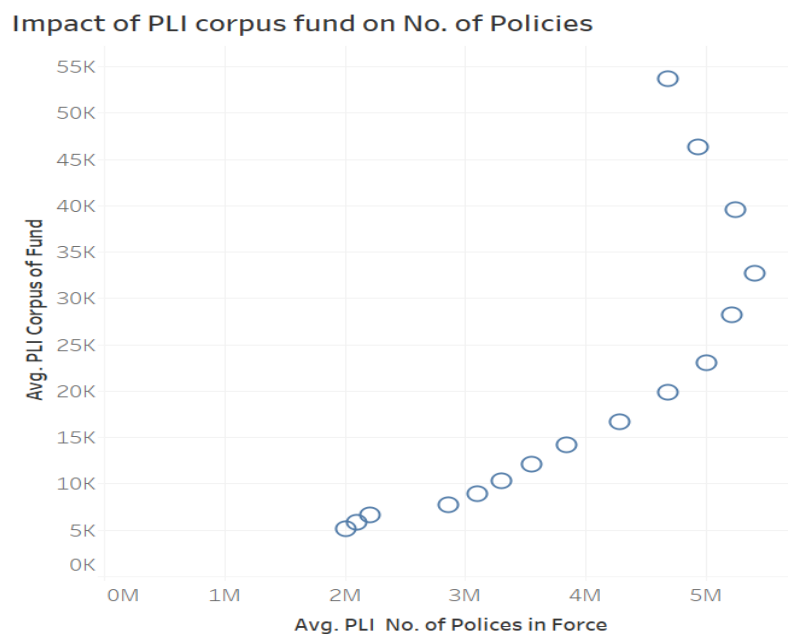
b. There was an increase in the avg sum assured for RPLI policies which surpassed avg sum assured for PLI policies from the year 2005-2006 to 2010-11 after which there was consistent sum assured.

The PLI policies however had experienced a large sum assured than RPLI from 2012-13 to 2016-17.



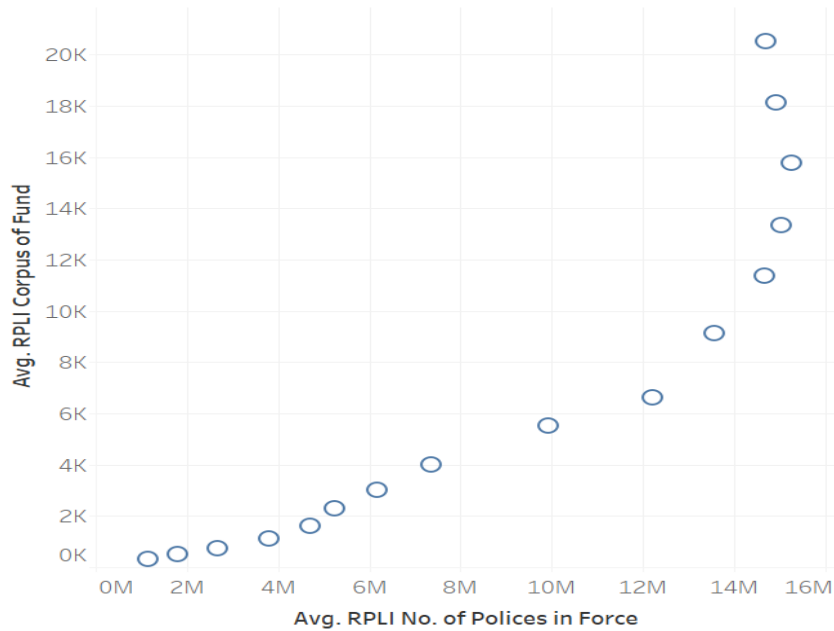
c. To know if there is any relation between sum assured and No. of policies a scatter plot was plot for both the type of policies seperately.

i. For PLI policies though the avg number of policies were increasing, the sum assured was increasing.



ii. For RPLI policies there wasnt much change observed in the no. of policy and sum assured.

Impact of RPLI Corpus fund on No. of Policies

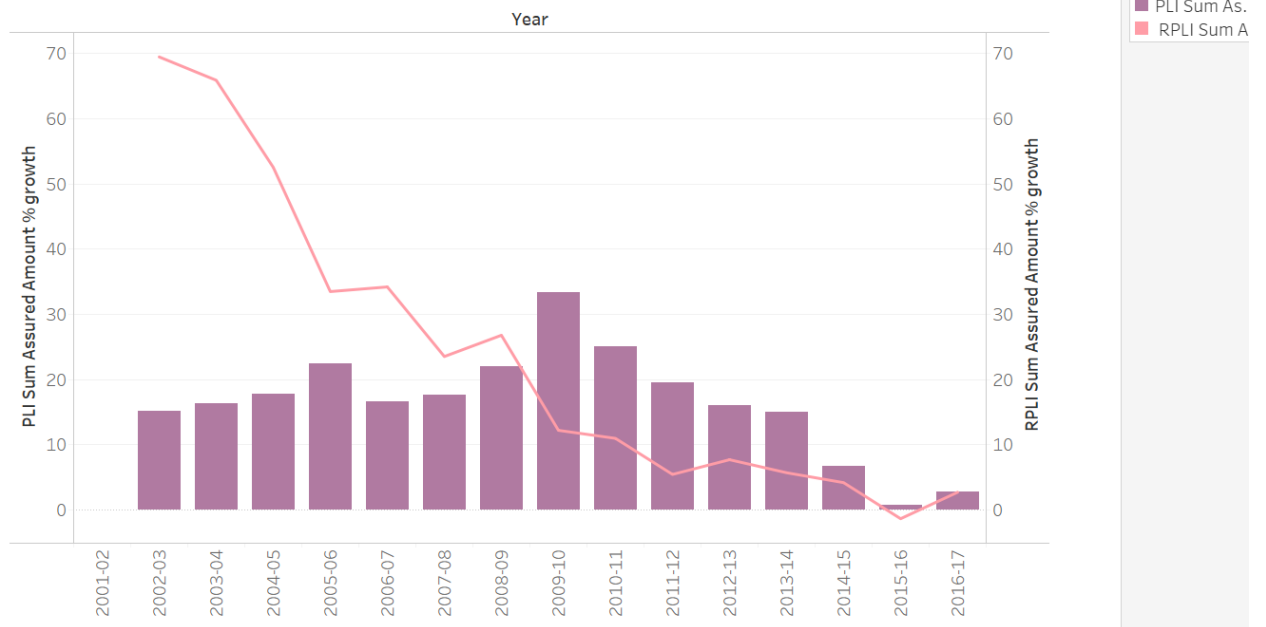


d. % growth represents the % increase in the sum assured as compared to the previous year.

We can see that the % growth in sum assured has been declining over the years.

However the growth in sum assured for both the type of policies has seen a decline after 2009-10 which indicates that there might be other competing policies coming up and people might have attracted towards

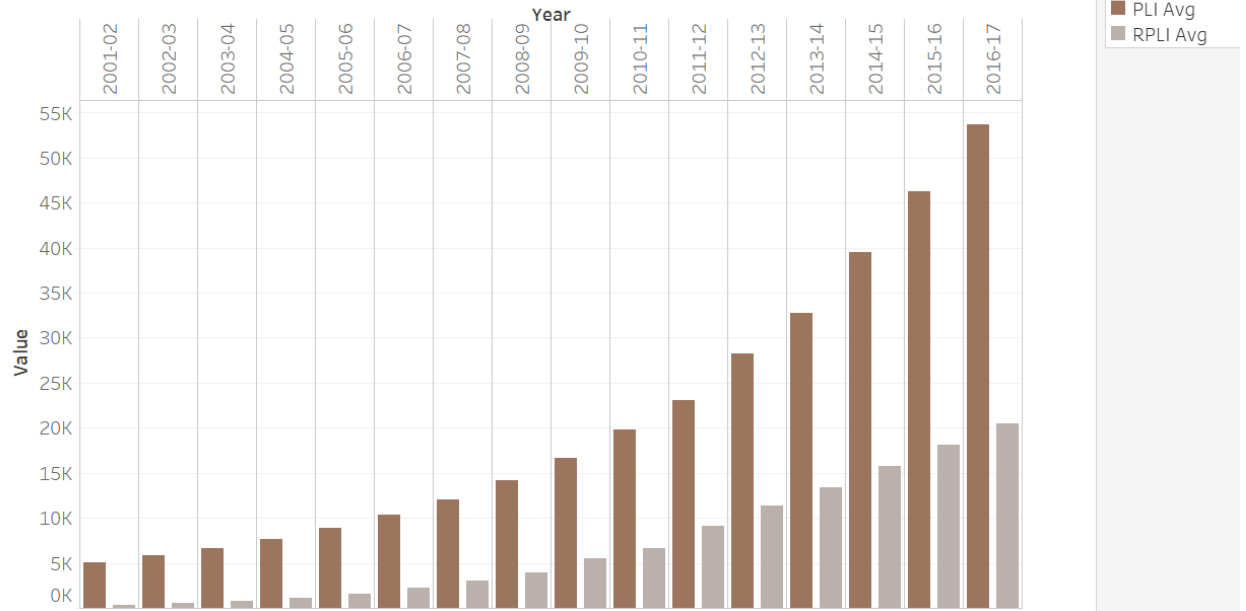
% Growth of Sum Assured amount



e. The corpus fund/ maintenance is a fixed fund kept for basic expenditure needed for organisation's survival.

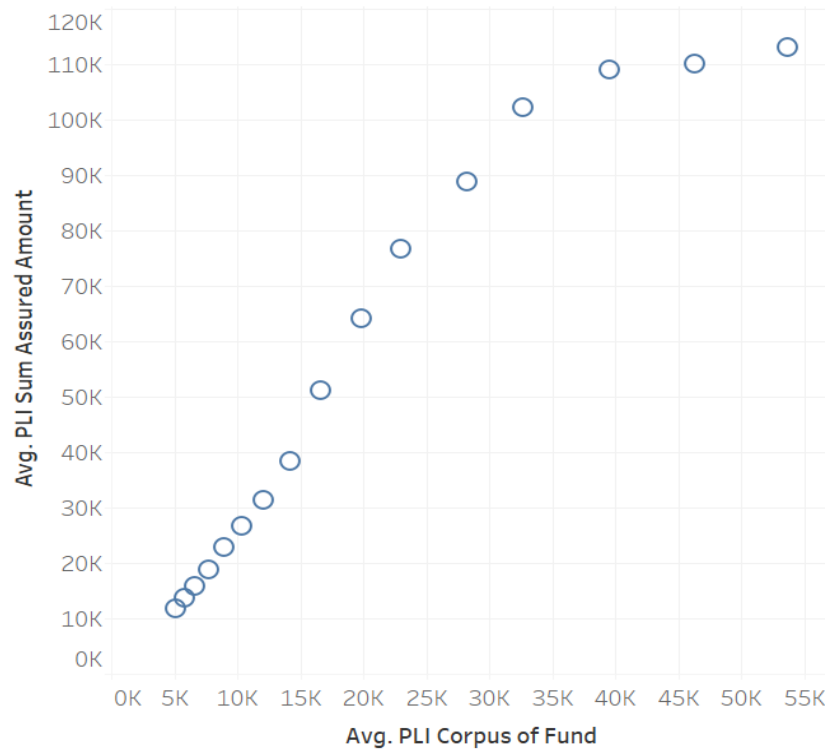
We can see an increasing trend in the average corpus fund as yearwise for both RPLI and PLI policies which indicates that its sum assured is totally dependant on corpus fund.

Comparsion of Corpus Fund



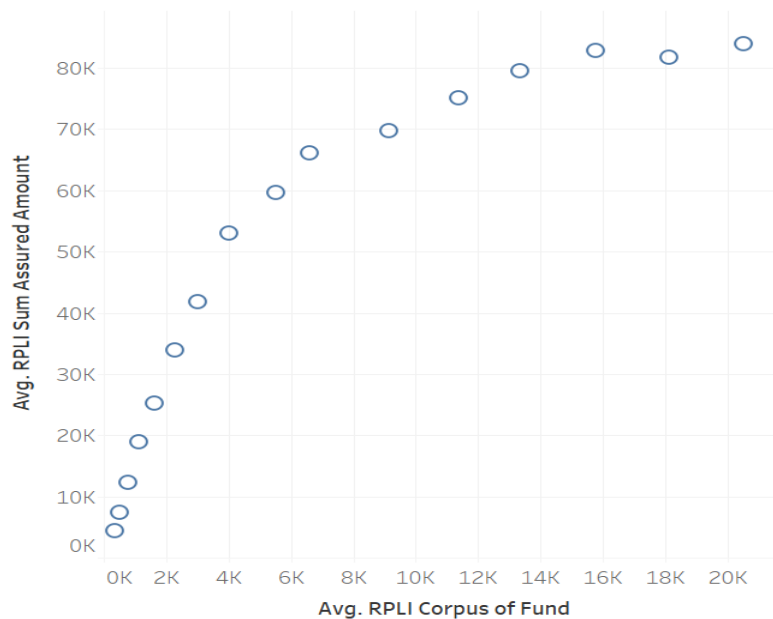
f. We can see that as the average PLI sum assured increases the corpus fund also increases.

Impact on PLI Corpus Fund On Sum Assured



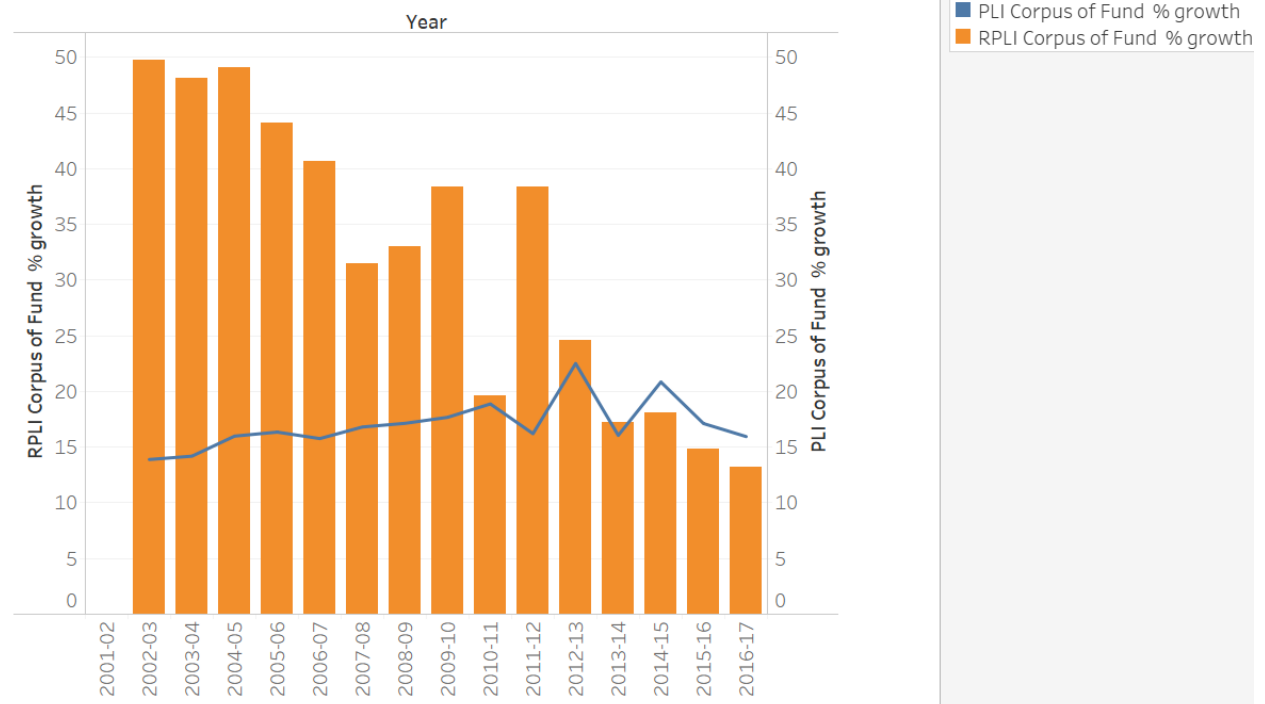
g. We can see a similar increasing trend observed for RPLI corpus fund as sum assured increases but there is a gradual increase observed from 2001-02 up to year 2007-08

Impact of RPLI sum assured on Corpus fund



h. On comparing the % growth in the corpus fund for both PLI and RPLI policies we can see lot of variation onbserved from the year 2009-10 to 2015-16.

% Growth of Corpus fund



## 6. APPLICATIONS



Such Analysis helps us to dig more deep into exploring why there is a change in performance trends and helps in easy understanding with a scope of improvement.

It helps us to understand how the different parameters of insurance affect each other and help us understand the varying trends of Rural and postal life insurance.

## **7. CONCLUSIONS**

We can see the demand for Rural Postal Life Insurance was lower in initial years compared to Postal life insurance as seen from the parameter number of policies. However as the time progressed RPLI became much in demand than PLI.

This can be because since many new policies are coming over in the market people apart from those from rural areas most likely prefer such policies as :

- New better insurance policies coming in the market with better returns
- Better covers might be provided by other policy makers.
- Maximum sum assured is low as people from urban areas are capable of bearing high sum assured.

We can also see a decline in the number of policies in force for both RPLI and PLI from year 2014.

This decline for RPLI can be because of various factors like :

- Source of income must have reduced for people from rural regions
- People might have migrated to urban areas due to which less population might be observed.

## **8. FURUTE SCOPE**

Given more data we can dig deep into each of the pain points mentioned above and come up with more accurate scolution in order to bring back the market of PLI and RPLI policies

## **9. BIBILOGRAPHY**

Data is taken from government site and a few research work on the different terms assoiciated with the problem was self analysed