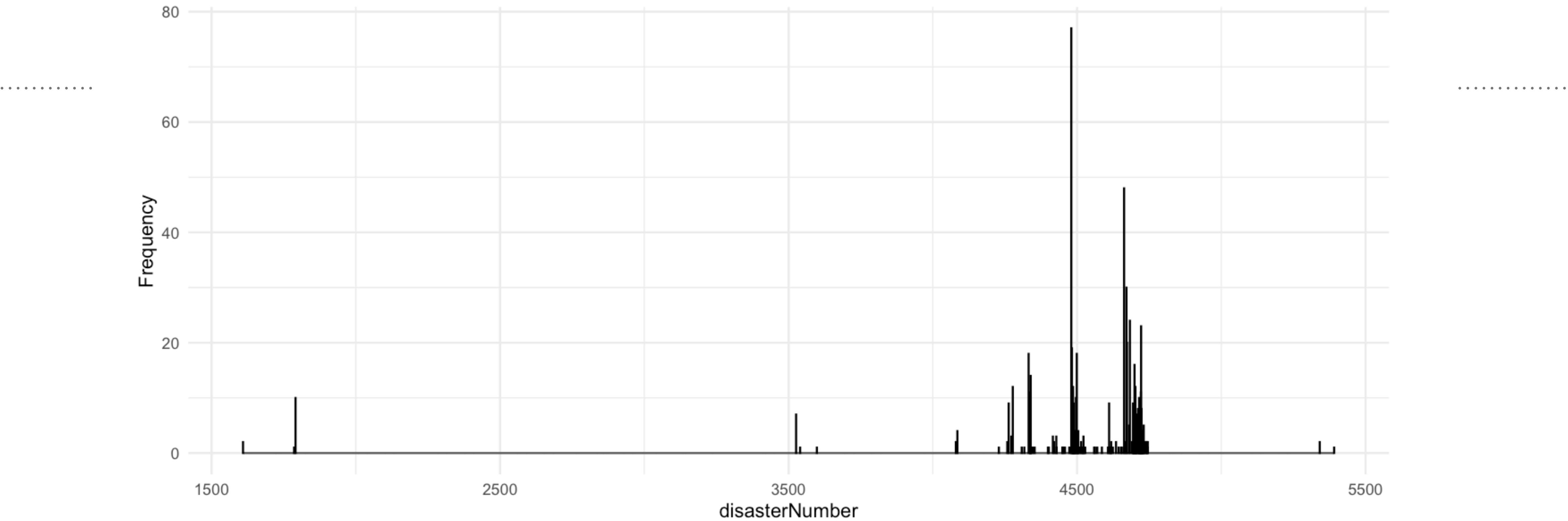




PUBLIC ASSISTANCE FOR DISASTER

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Histogram of Public Assistance Data



- Firstly, through this chart, we can have an overall overview of the disasters in various states of the United States. We can find that the number of disasters is around 4500, which is a significant number. Therefore, this also indicates that public assistance is very important in this process.

Public Assistance Data Exploration

Select X-axis variable:

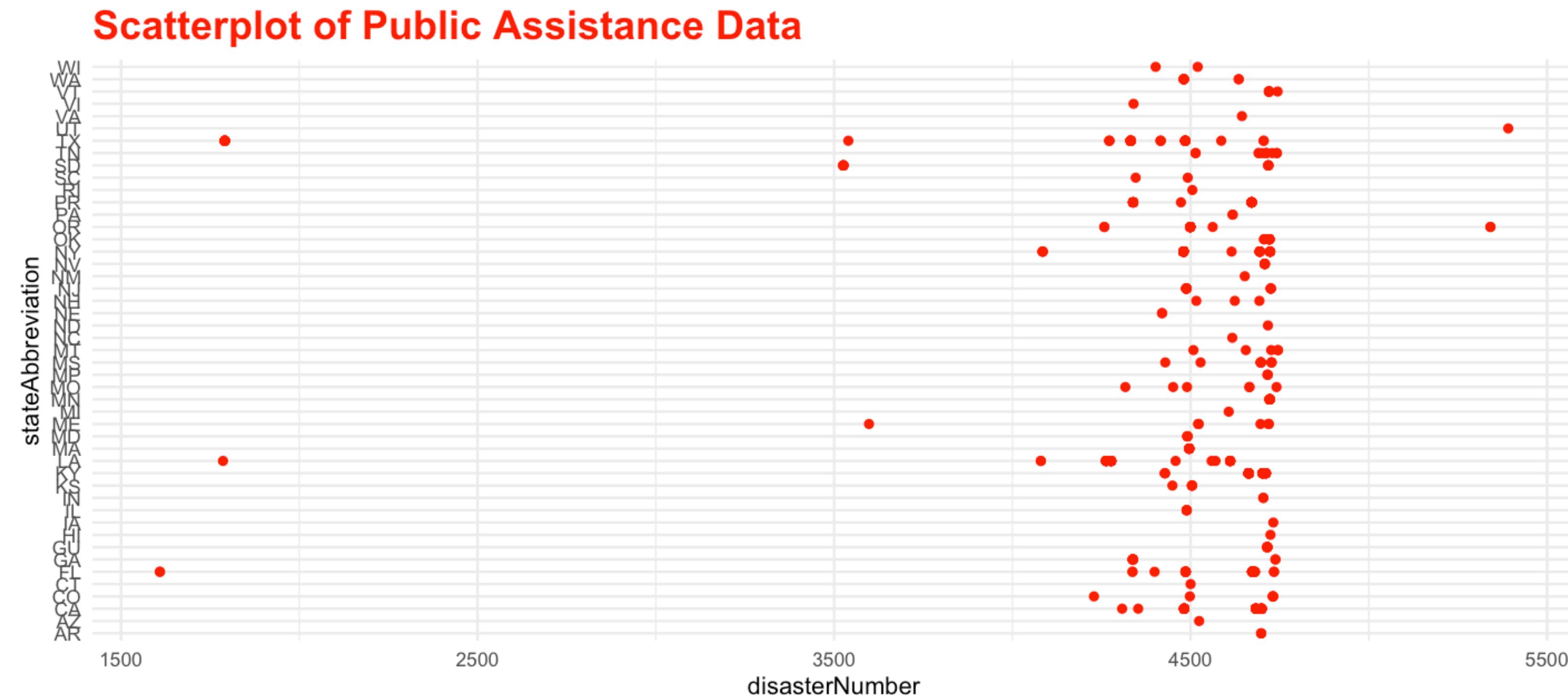
disasterNumber

Select Y-axis variable:

stateAbbreviation

Select plot type:

Scatterplot



- Here we try to define x-axis as the disaster number and y-axis as the state. Then it is easy for us to see which states have more disasters than others. Such as UT and PA have the biggest number on disaster and most of the states get the number around 4000-5000. This picture could be more beneficial for the allocation of public assistance resources.

Public Assistance Data Exploration

Select X-axis variable:

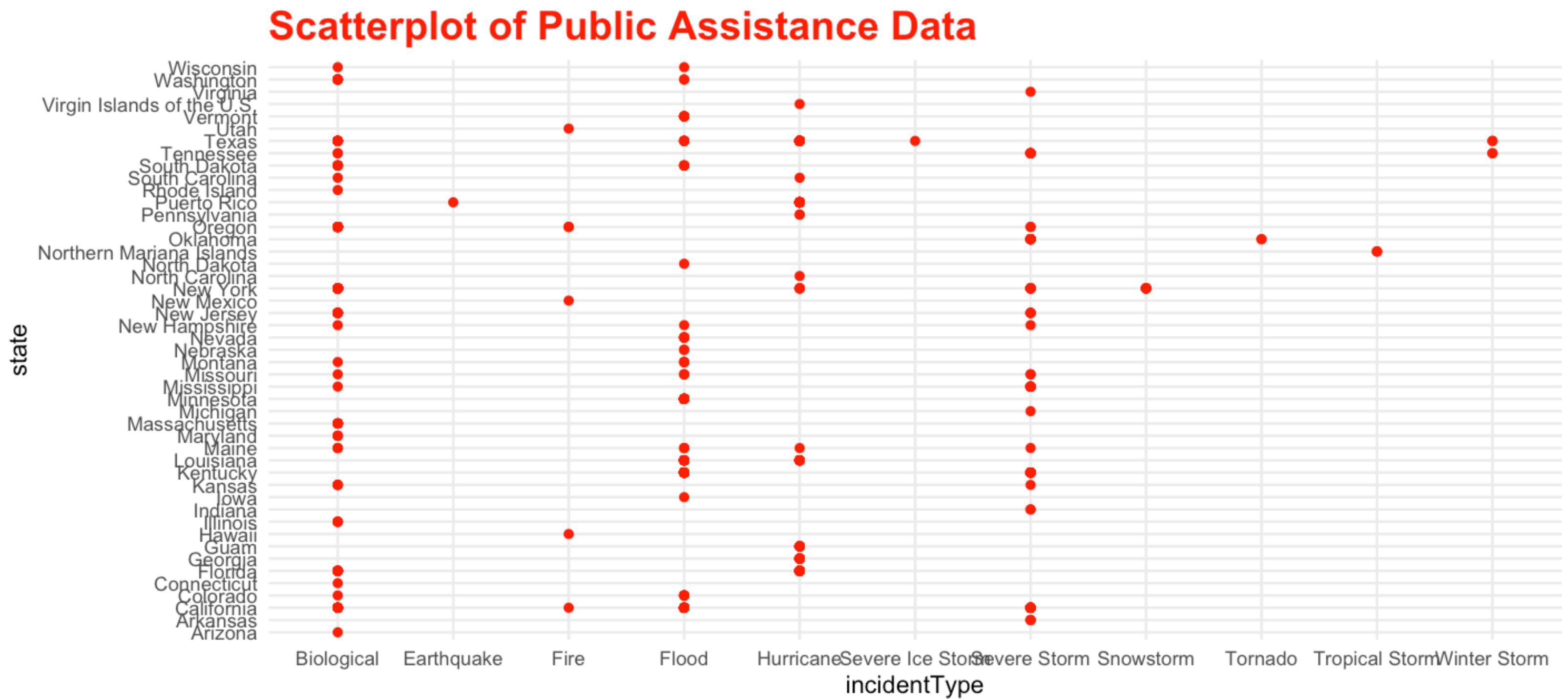
incidentType ▼

Select Y-axis variable:

state ▼

Select plot type:

Scatterplot ▼



- After the allocation on each state's disaster number, here we could have a more exact scatterplot a more detailed analysis of common types of disasters in each state, such as blizzards and hurricanes. With such icons, welfare institutions can provide more appropriate public assistance for common disasters in each state. This chart enhances the effective allocation of various resources and provides more effective rescue for post disaster reconstruction of various disasters.

Public Assistance Data Exploration

Select X-axis variable:

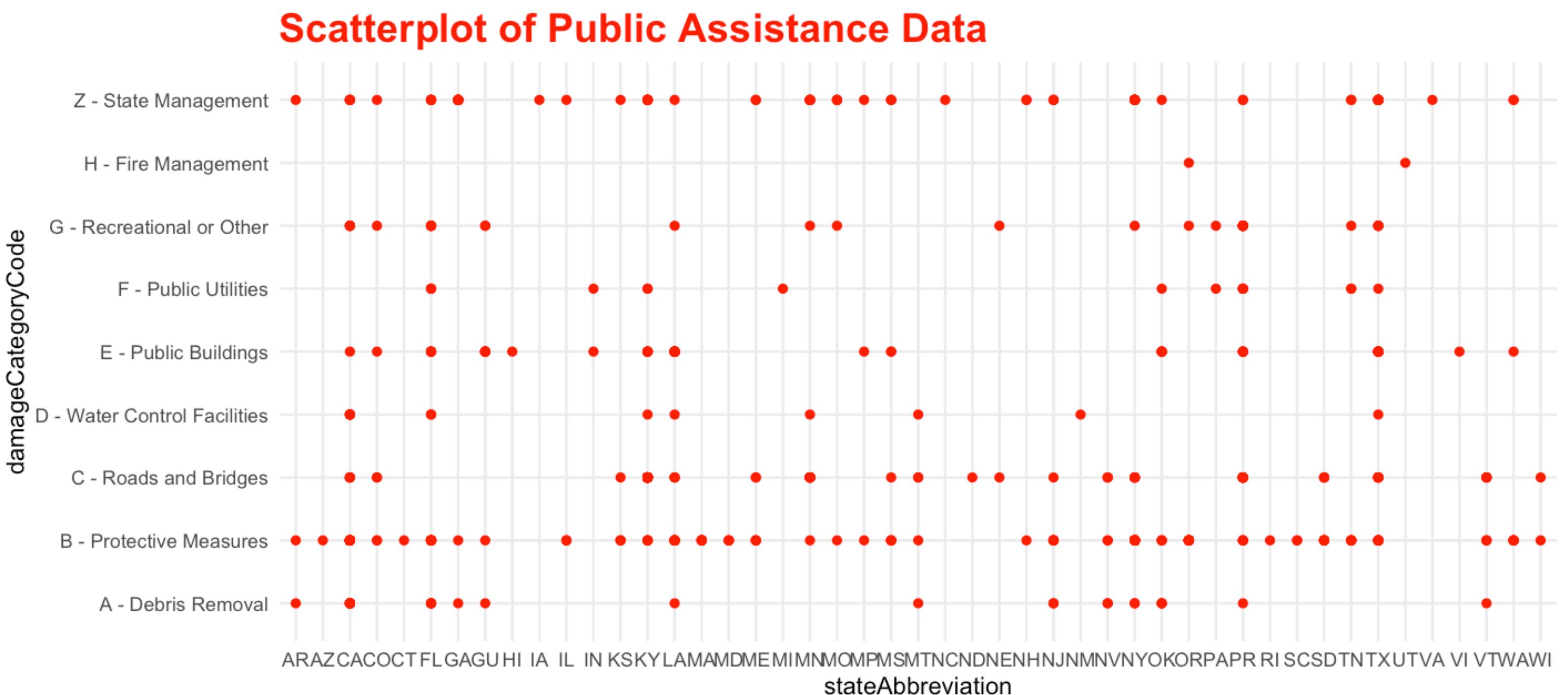
stateAbbreviation

Select Y-axis variable:

damageCategoryCode

Select plot type:

Scatterplot



Category B: Emergency Protective Measures - Measures taken before, during, and after a disaster to eliminate/reduce an immediate threat to life, public health, or safety - or to eliminate/reduce an immediate threat of significant damage to improved public and private property through cost-effective measures.

Category C - Roads and Bridges Repair of roads, bridges, and associated features, such as shoulders, ditches, culverts, lighting, and signs.

Category D - Water Control Facilities Repair - Repair of drainage channels, pumping facilities, and some irrigation facilities. Repair of levees, dams, and flood control channels

Category E - Buildings and Equipment Repair - Replacement of buildings, including their contents and systems; heavy equipment; and vehicles.

Category F - Utilities Repair - Repair of water treatment and delivery systems; power generation facilities and distribution facilities; sewage collection and treatment facilities; and communications.

Category G - Parks, Recreational Facilities, and Other Facilities Repair - Repair and restoration of parks, playgrounds, pools, cemeteries, mass transit facilities, and beaches.

A graphic illustration of two hands reaching towards each other from opposite sides. The hands are white with long, thin fingers. They are set against a solid red background. The lighting creates a soft shadow of each hand on the background surface.

Thanks!