

# Households Using Clean Fuel for Cooking in India (NFHS-4)

## Introduction

It is important for Indian households to move towards cleaner and more efficient cookstoves and fuels as usage of traditional cookstoves and open fires causes childhood pneumonia, emphysema, cataracts, lung cancer, bronchitis, cardiovascular disease, and low birth weight.

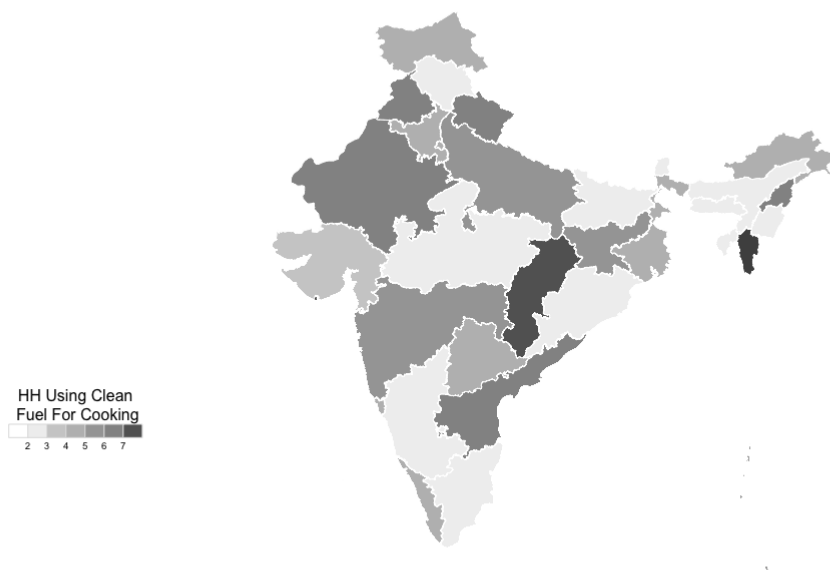
In this analysis I am trying to measure how many regions in India have moved towards using Clean Fuel for cooking on a state and district level. The darker the colouring gets, the households in that region are more likely to use clean fuel for cooking.

The data is sourced from National Family Health Survey (<http://rchiips.org/nfhs/>).

## Cleaning And Importing Data

```
data <- read.csv("data.csv")
data$CleanFuel <- data$Households.using.clean.fuel.for.cooking3
data$CleanFuel <- data$CleanFuel/100
data1 <- aggregate(CleanFuel~State.1, data=data, FUN=mean)
```

### India

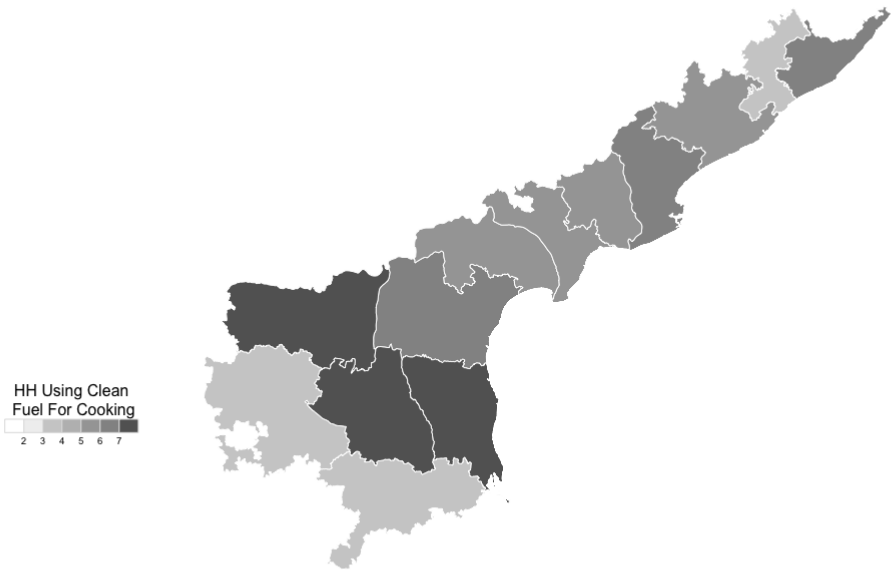


# States And Districts

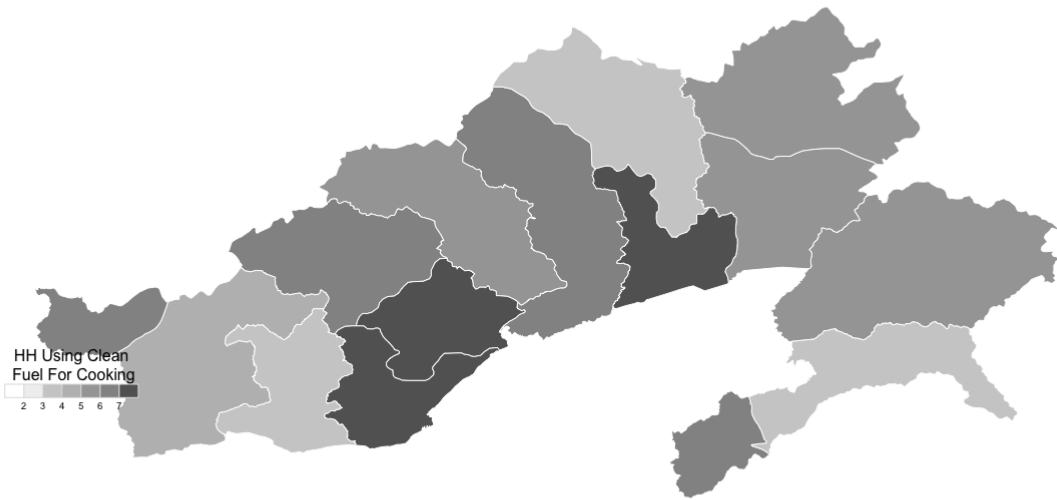
## Andaman and Nicobar



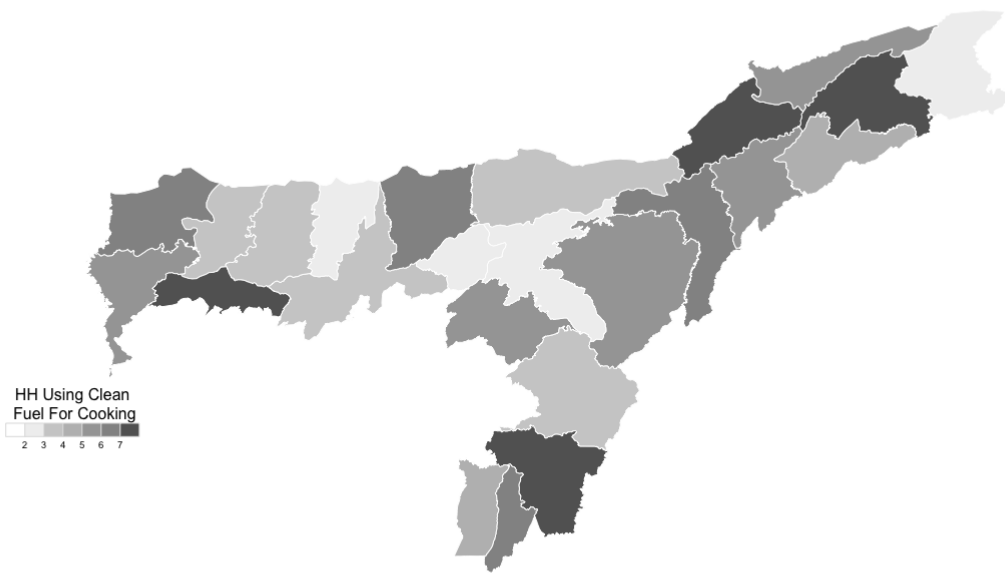
# Andhra Pradesh



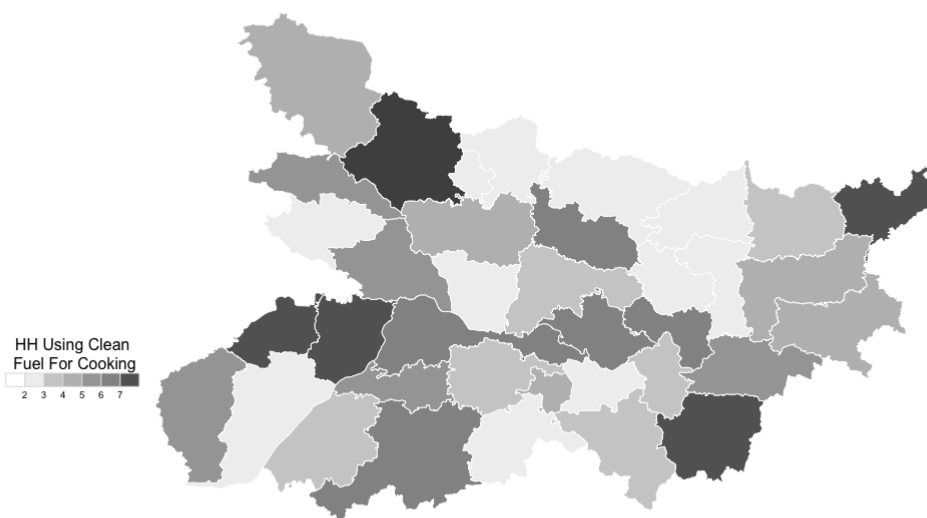
# Arunachal Pradesh



## Assam



## Bihar



## Chandigarh

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2 3 4 5 6 7

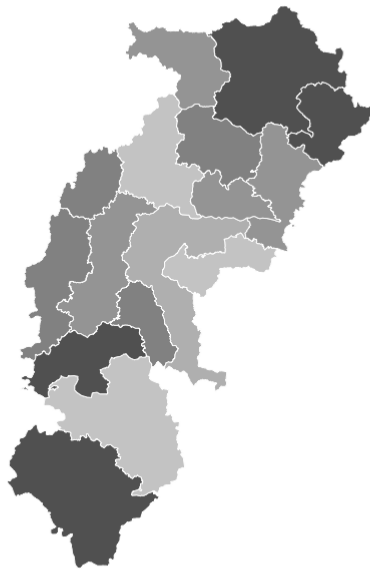


## Chhattisgarh

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2 3 4 5 6 7



Dadra and Nagar Haveli



Daman and Diu



## Delhi

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A horizontal legend bar with 7 segments of increasing darkness from left to right, corresponding to the values 2 through 7.

Value	Color Description
2	Lightest Gray
3	Light Gray
4	Medium-Light Gray
5	Medium Gray
6	Dark Gray
7	Black



## Goa

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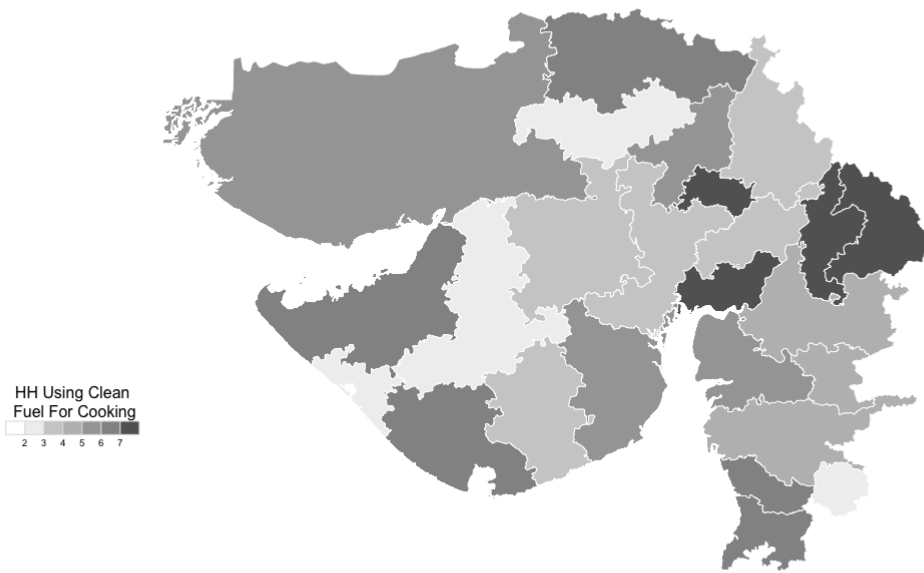


A horizontal legend bar with 7 segments of increasing darkness from left to right, corresponding to the values 2 through 7.

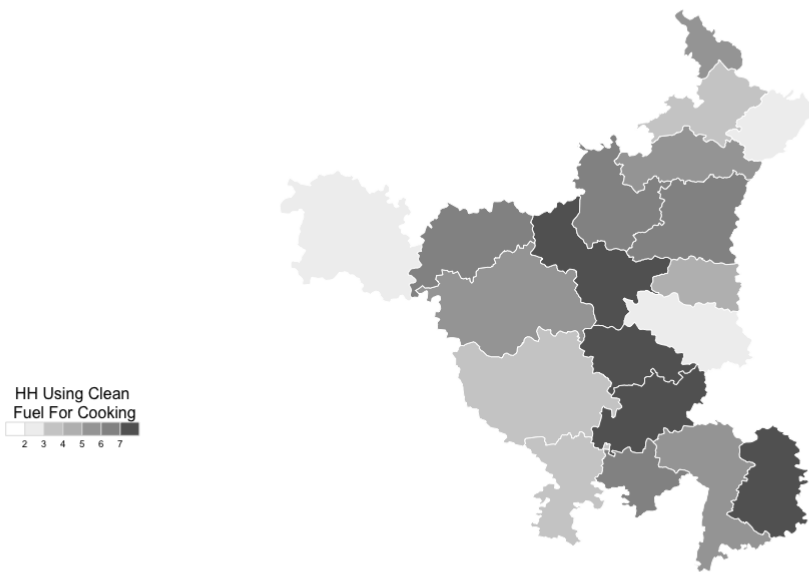
Value	Color Description
2	Lightest Gray
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7	Black



## Gujarat

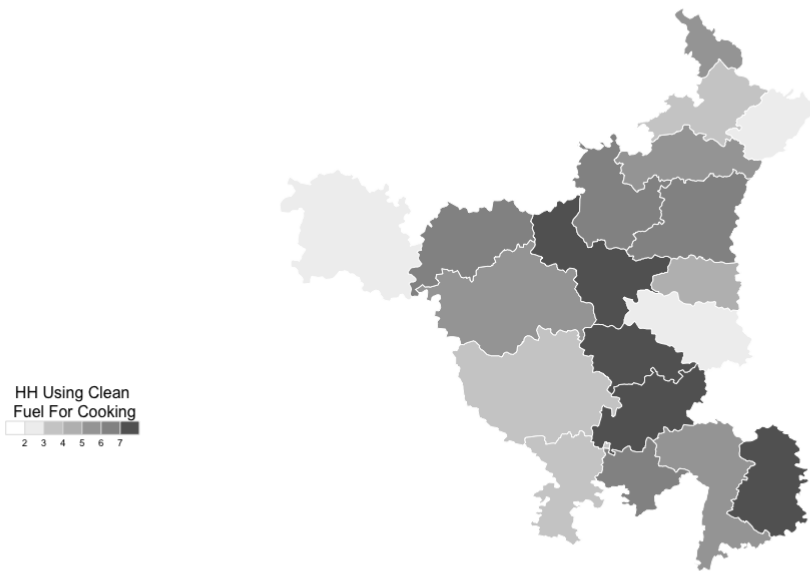


## Haryana

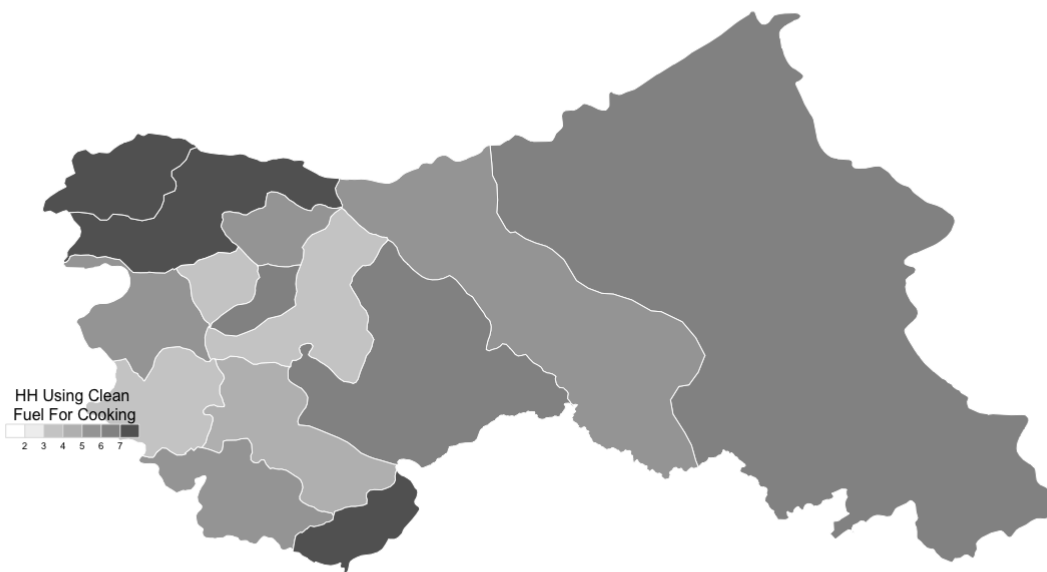




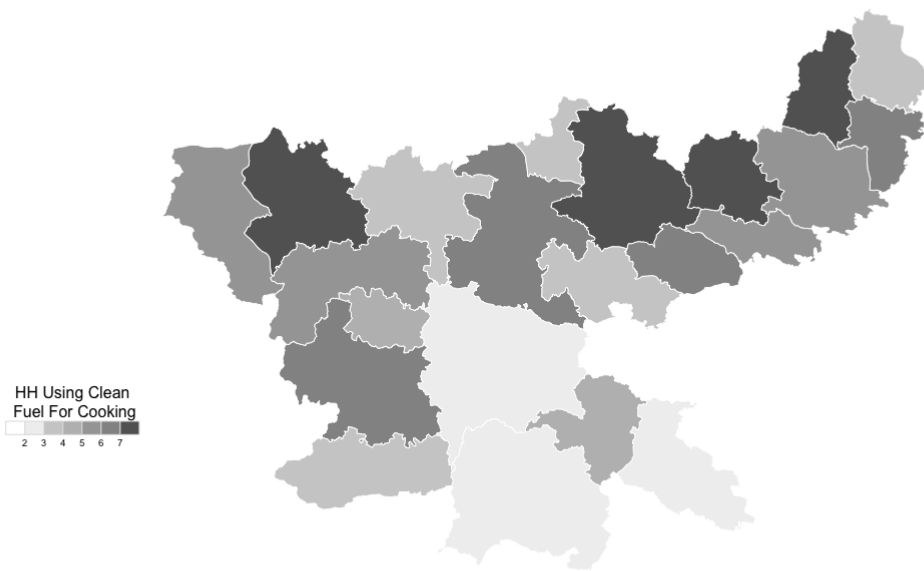
## Himachal Pradesh



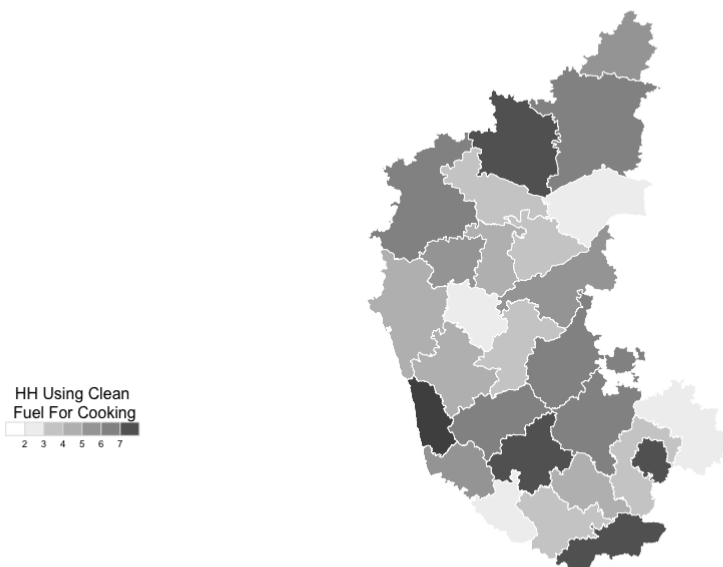
## Jammu and Kashmir



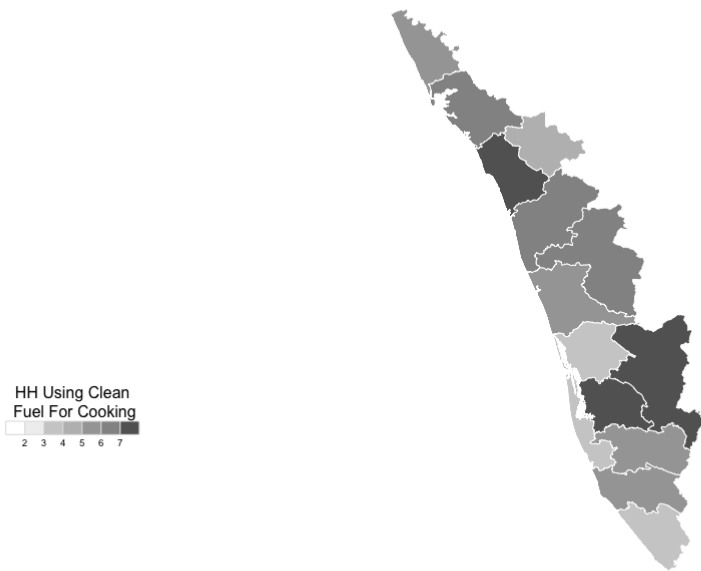
## Jharkhand



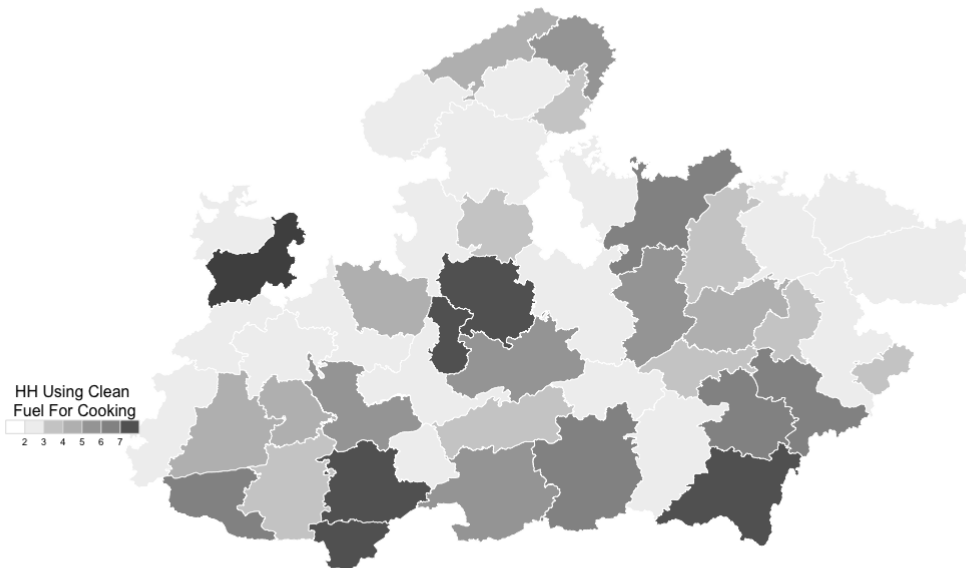
## Karnataka



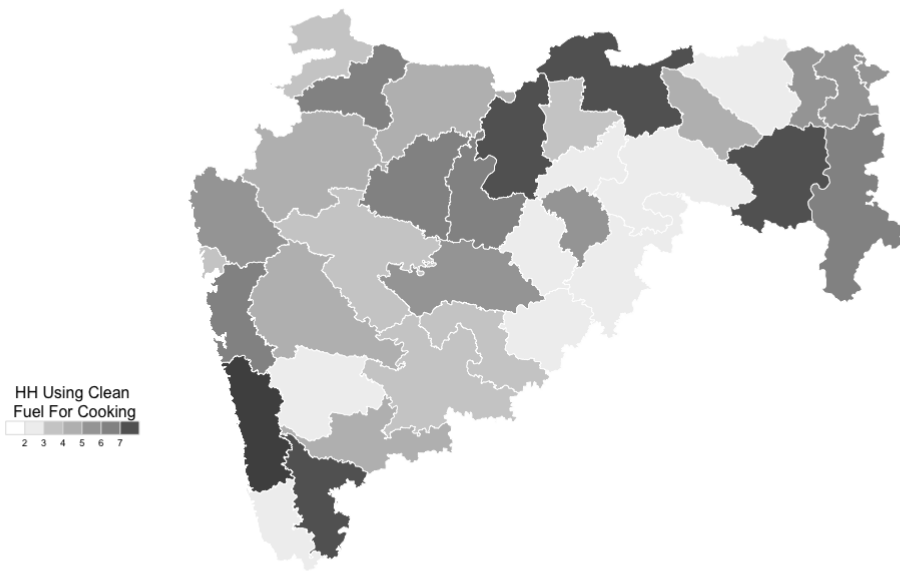
## Kerala



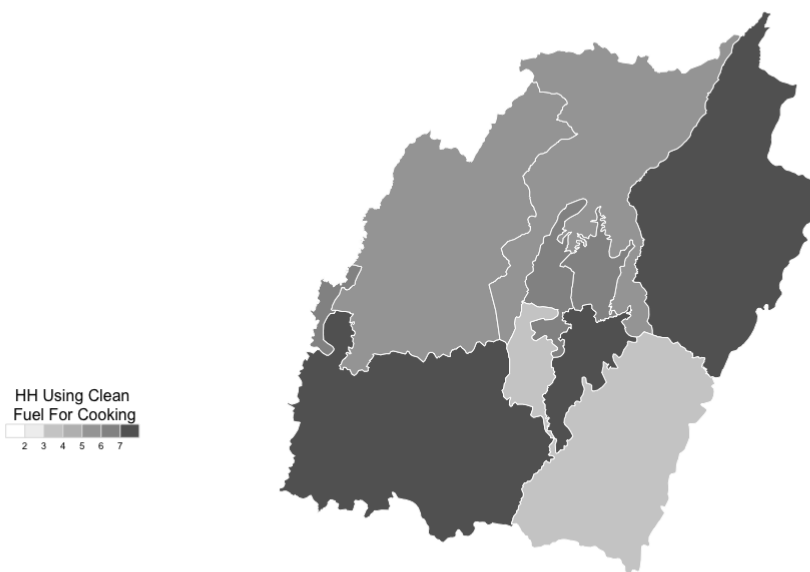
## Madhya Pradesh



## Maharashtra



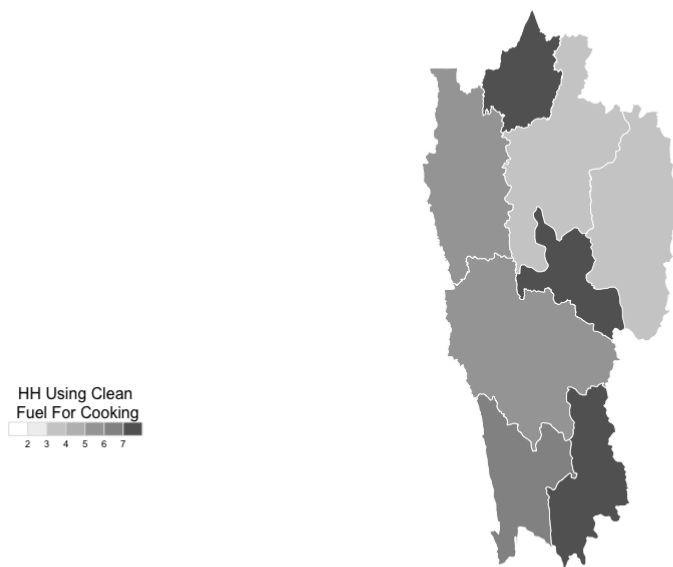
## Manipur



## Meghalaya



## Mizoram



# Nagaland



# Orissa



## Puducherry

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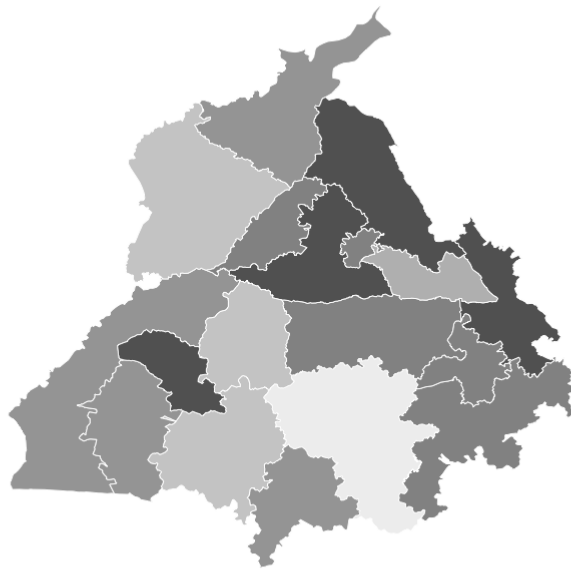
2 3 4 5 6 7

## Punjab

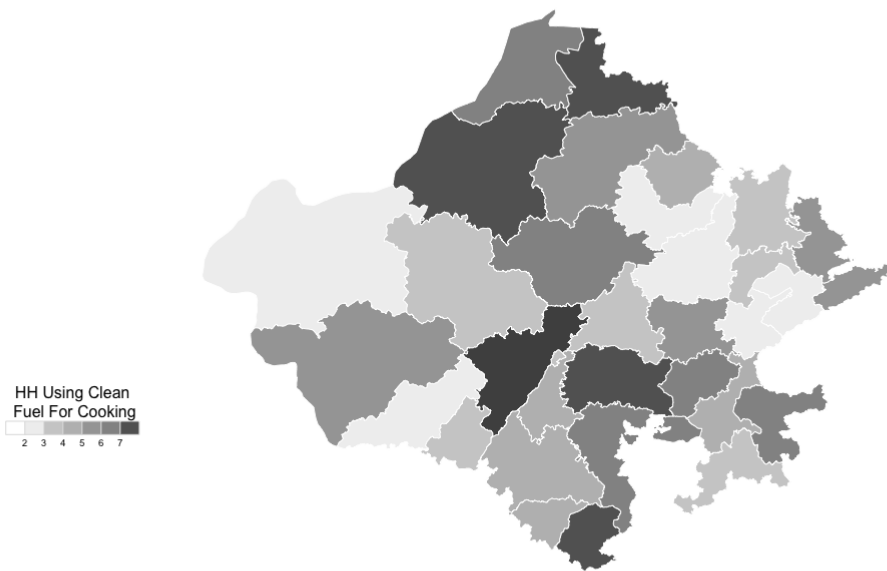
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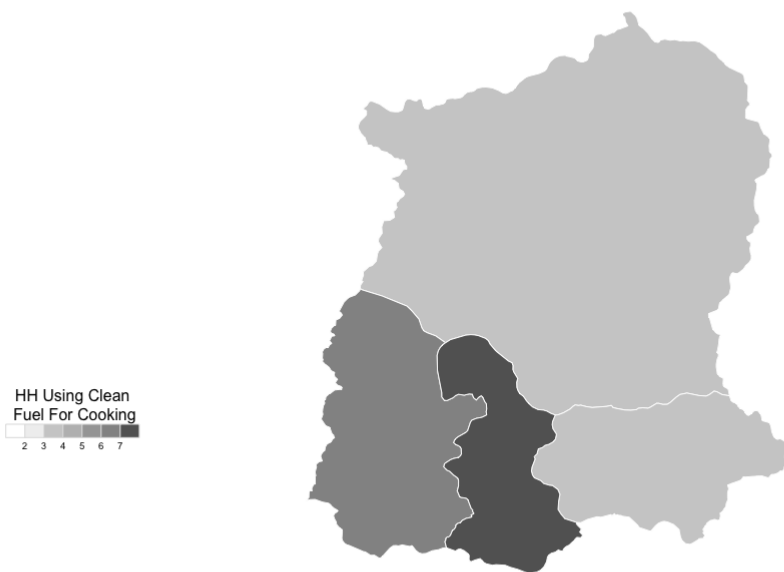
2 3 4 5 6 7



## Rajasthan

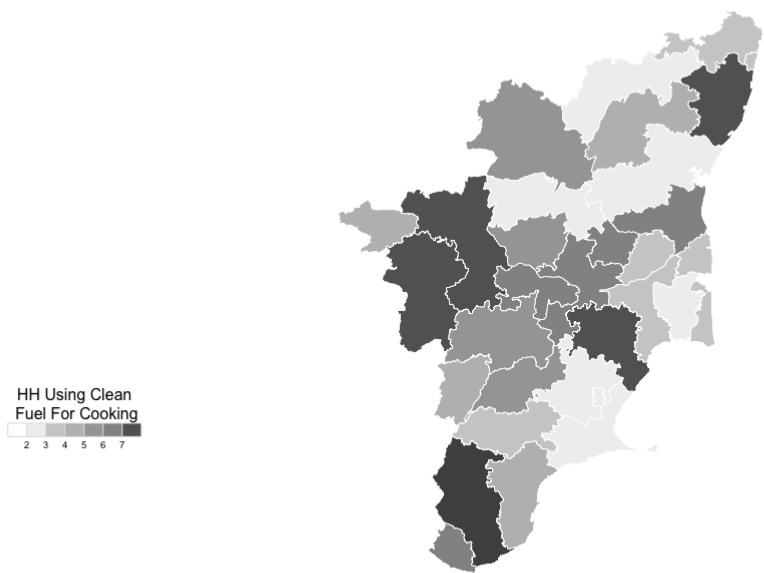


## Sikkim

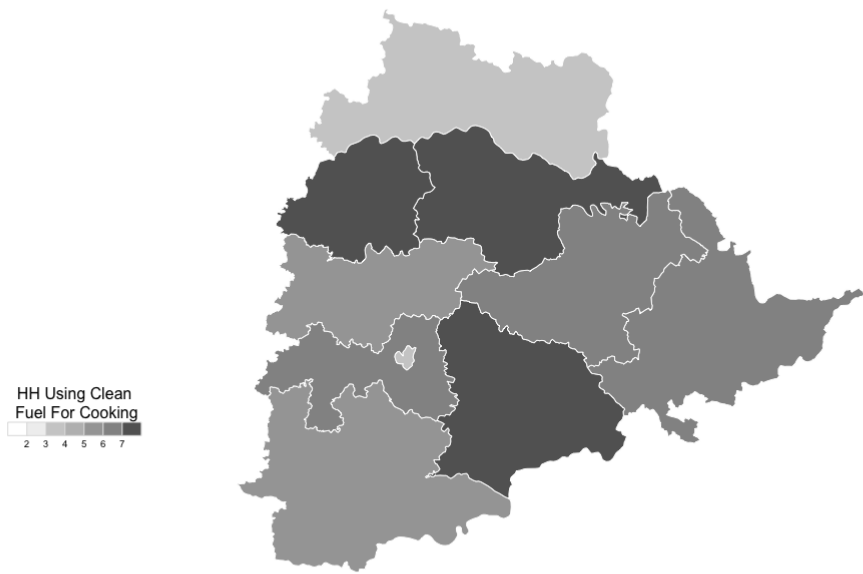




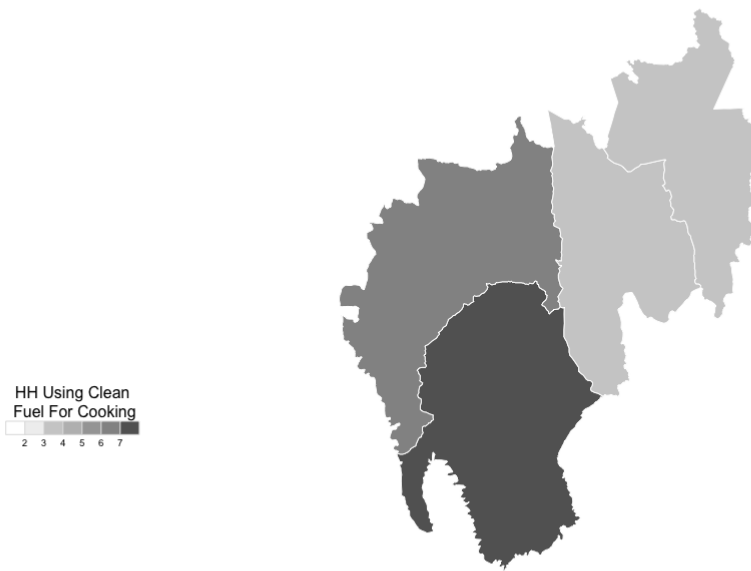
# Tamil Nadu



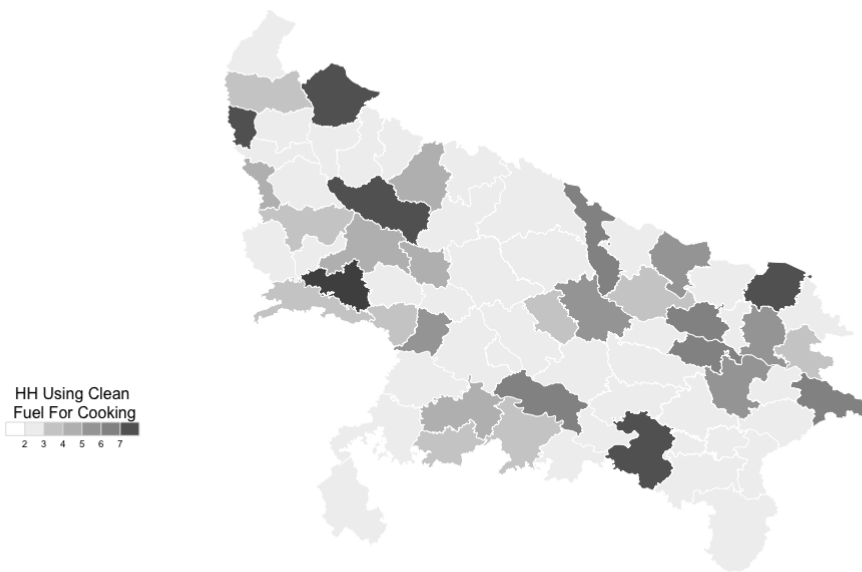
# Telangana



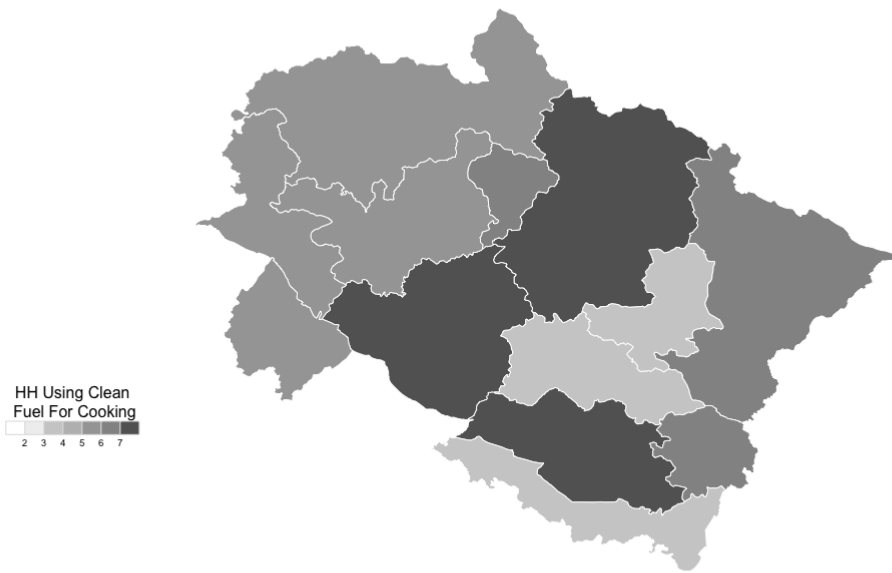
## Tripura



## Uttar Pradesh



## Uttaranchal



## West Bengal

