

# Web based Interactive Thematic MapGen Tool

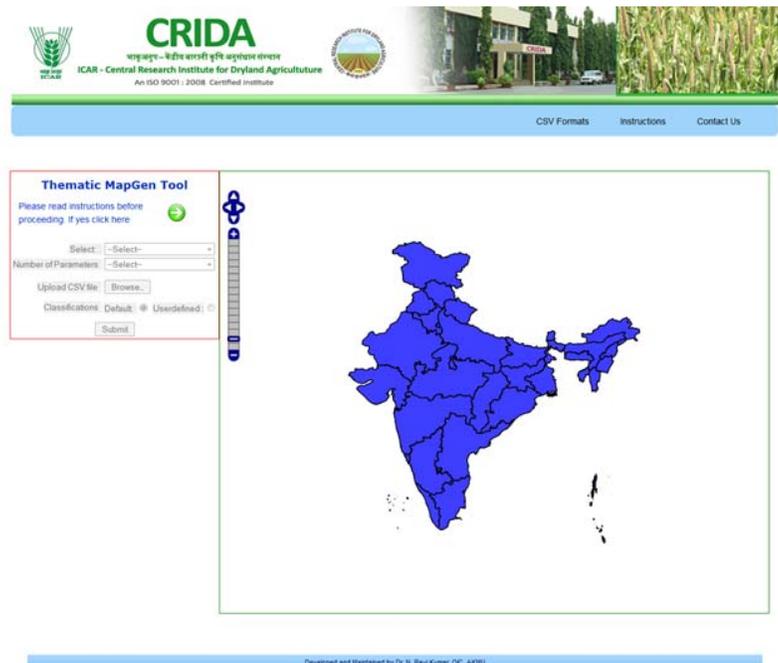
## 1. Introduction

A thematic map is a type of map, which depicts a particular theme connected with a specific geographic area. These maps can be used to describe agricultural, weather, sociological, economic, social, cultural, or any other aspects of a city, state, region, nation, or continent. The great advantages of thematic maps in the information transmission, storage, conversion and display have become essential tools and means in investigations and studies, analysis and evaluation, forecasting, planning and design, command and management. And thematic map symbol is the most basic and important component of the thematic language and plays an important role in the expression of the thematic content. Varied users leads to diversity and complexity of the thematic symbols and expression methods and most of the thematic maps do not have a fixed format and norm as topographic map. At the same time, all the geographic information system (GIS) users are not very familiar with cartographic knowledge. Many GIS software are commercial in nature. User needs to have minimum knowledge on GIS software for creating of any kind of map. This “Web based Interactive Thematic MapGen Tool” was developed to make India thematic maps free of cost and user no prerequisite knowledge required. User-friendly interactive frontend was developed to create State wise India, District wise India and District wise State thematic maps based on their objectives. This Tool is an enterprise mapping service that allows you to easily create and save interactive maps. This application does not store user data. Uploaded data will be deleted from the application as soon as application session/page is closed.

## 2. How to Generate Map

Thematic MapGenTool is available at <http://www.crida.in/onlinemap.html>.

MapGen tool is best viewed in Firefox and Internet Explorer browsers. This tool takes only 4 inputs from the user. They are Type of map, number of Parameters projected on the map, Data file in the CSV format and number of data Classifications. First three inputs are mandatory, map can not be generated without any one of three inputs. By default application takes 5 data classifications if user is not defined. User instructions and data format file are available in the top menu of same page. We request user to read instructions before going for creating map. Print or save in local hard disk facility is provided in this tool.



First screen of MapGen tool

## 2.1 Single Data Parameter with default Classification

User has to select number of inputs 1 and upload CSV data file with single column. Click submit button for map creation

The image shows the first screen of the MapGen tool. At the top, there is a header for CRIDA (Central Research Institute for Dryland Agriculture) with its logo and contact information. Below the header, there are navigation links for 'CSV Formats', 'Instructions', and 'Contact Us'. The main content area is titled 'Thematic MapGen Tool' and contains a control panel on the left and a map of India on the right. The control panel includes a 'Select' dropdown menu set to 'All States', a 'Number of Parameters' dropdown set to '1', an 'Upload CSV file' section with a 'Browse...' button, and 'Classifications' set to 'Default'. A 'Submit' button is located at the bottom of the control panel. The map of India shows state boundaries and is currently colored in a uniform blue. A vertical legend bar is positioned between the control panel and the map. The footer of the page states 'Developed and Maintained by Dr. N. Ravi Kumar, ICAR'.

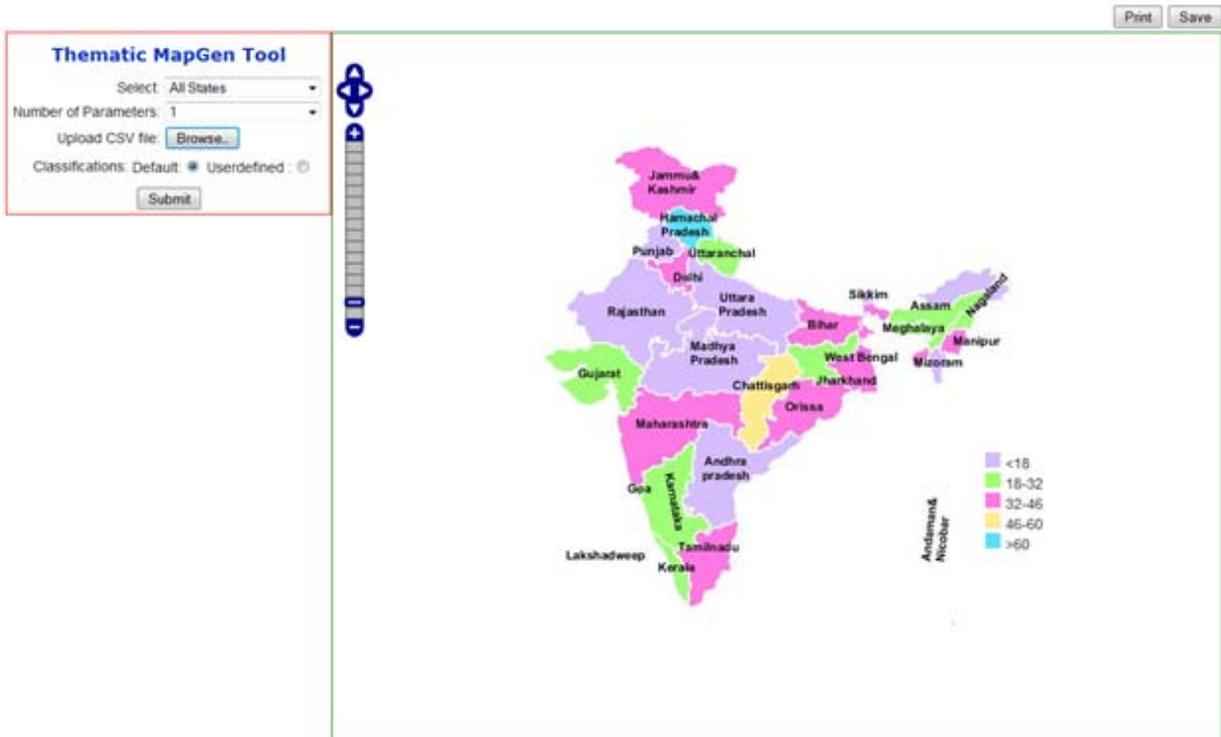


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## 2.2 Single Data Parameter with user Defined Classification

After uploading data file with single column, select Classification option as “Userdefined”. The following screen will appear.



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### Thematic MapGen Tool

Select:

Number of Parameters:

Upload CSV file:

Classifications:  Default  Userdefined

No. of Classifications:

First Parameter classifications

C1 (<) 10		56FF
C2 10 20		F223
C3 20 30		150C
C4 (>) 30		F717



The image shows a screenshot of the Thematic MapGen Tool interface. On the left, there is a control panel with various settings. The 'Number of Parameters' is set to 1, and 'No. of Classifications' is set to 4. Below this, a table shows four classification ranges (C1 to C4) with their corresponding color codes. The C1 range is (<) 10 with color 56FF, C2 is 10 20 with color F223, C3 is 20 30 with color 150C, and C4 is (>) 30 with color F717. A 'Submit' button is located below the table. To the right of the control panel is a map of India, where all districts are currently colored blue. A vertical legend bar is visible between the control panel and the map.

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Select Number of Classification as per user requirement and give rang values along with colour. Colour can be changed by clicking on the colour. On submission the following map displays on the screen.



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Print Save

### Thematic MapGen Tool

Select: All Districts

Number of Parameters: 1

Upload CSV file: Browse...

Classifications: Default  Userdefined

No. of Classifications: 4

**First Parameter classifications**

C1 (<) 10			96FF
C2 10 20			FF25
C3 20 30			1B04
C4 (>) 30			FF04

Submit

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### 2.3 More than one Parameters with default Classification

Number of Data columns in the user data file must match with number of parameters typed in the input box. Let us look at the map with default classifications after.



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### Thematic MapGen Tool

Select:

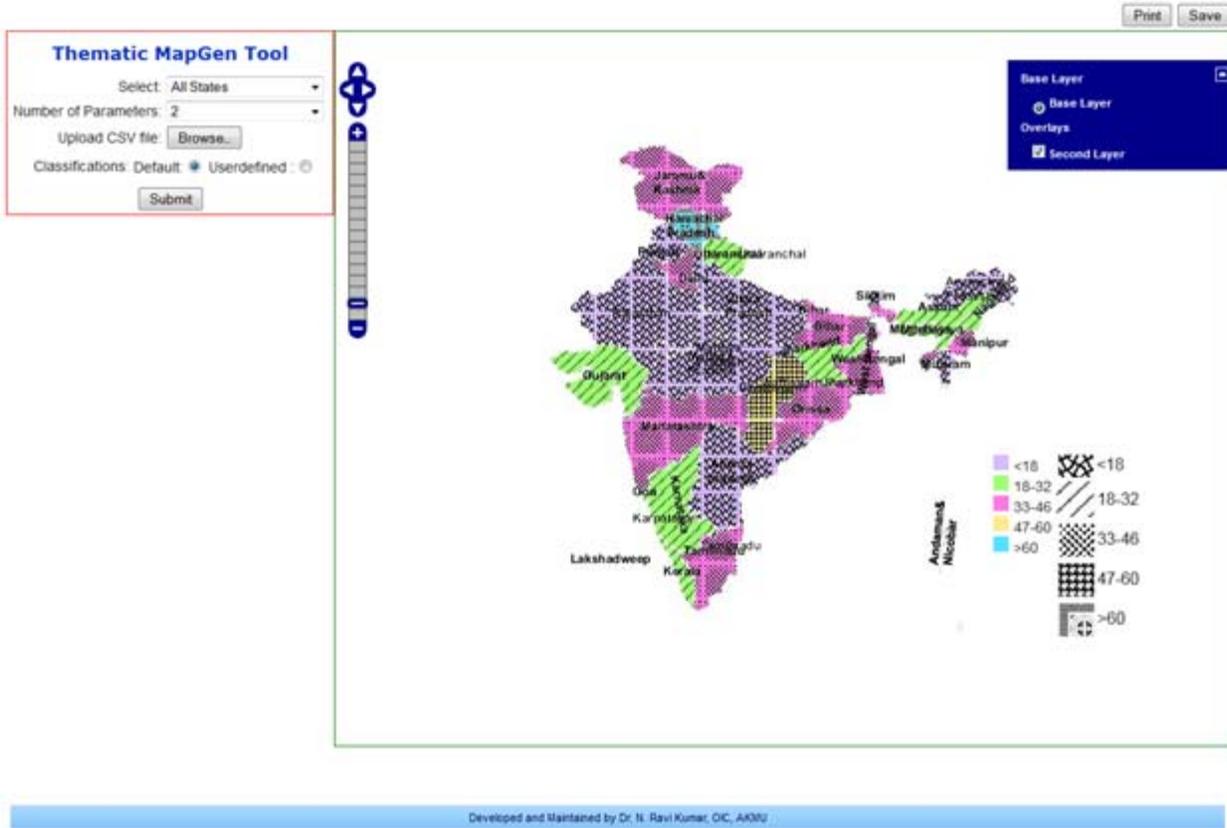
Number of Parameters:

Upload CSV file:

Classifications: Default  Userdefined:

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After clicking on submits button user will get the following screen.



#### 2.4. More than one Parameters with user Defined Classification

After uploading data file with multiple data columns, select Classification option as “Userdefined”. The following screen will appear.



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### Thematic MapGen Tool

Select:

Number of Parameters:

Upload CSV file:

Classifications:  Default  Userdefined

No. of Classifications:

**First Parameter classifications**

C1 (<) 10		Change
C2 10 20		Change
C3 (>) 20		Change

**Second Parameter classifications**

C2 (<) 10		Change
C3 10 20		Change
C2 (>) 20		Change

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Here user needs to give the range of values per parameter and select color combinations and patterns for the relevant values. Please note that number of classifications is same for all parameters. After click on submit button.



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Print Save

### Thematic MapGen Tool

Select: All Districts

Number of Parameters: 2

Upload CSV file:

Classifications: Default  Userdefined

No. of Classifications: 3

**First Parameter classifications**

C1 (<) 10	
C2 10 20	
C3 (>) 20	

**Second Parameter classifications**

C1 (<) 10		<input type="button" value="Change"/>
C2 10 20		<input type="button" value="Change"/>
C3 (>) 20		<input type="button" value="Change"/>

**Base Layer**

- Base Layer
- Overlays
- Second Layer

**First Parameter Legend**

- <10
- 10-20
- >20

**Second Parameter Legend**

- <10
- 10-20
- >20

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## Citation

When output from the portal is used in your research, you may give in references the citation of the application given below.

Ravi Kumar N., Maheswari M., Srinivasa Rao Ch., Raju B.M.K., Desai S. and Rao K.V. 2015. Web based Interactive Thematic MapGen Tool (<http://www.crida.in/onlinemap.html>). ICAR-Central Research Institute for Dryland Agriculture, Santoshnagar, Hyderabad - 500059, Telangana, India.