



Government of India  
Ministry of Jal Shakti  
Department of Water Resources,  
River Development & Ganga Rejuvenation  
Central Water Commission

# ASSESSMENT OF AREAS AFFECTED DUE TO FLOODS IN INDIA



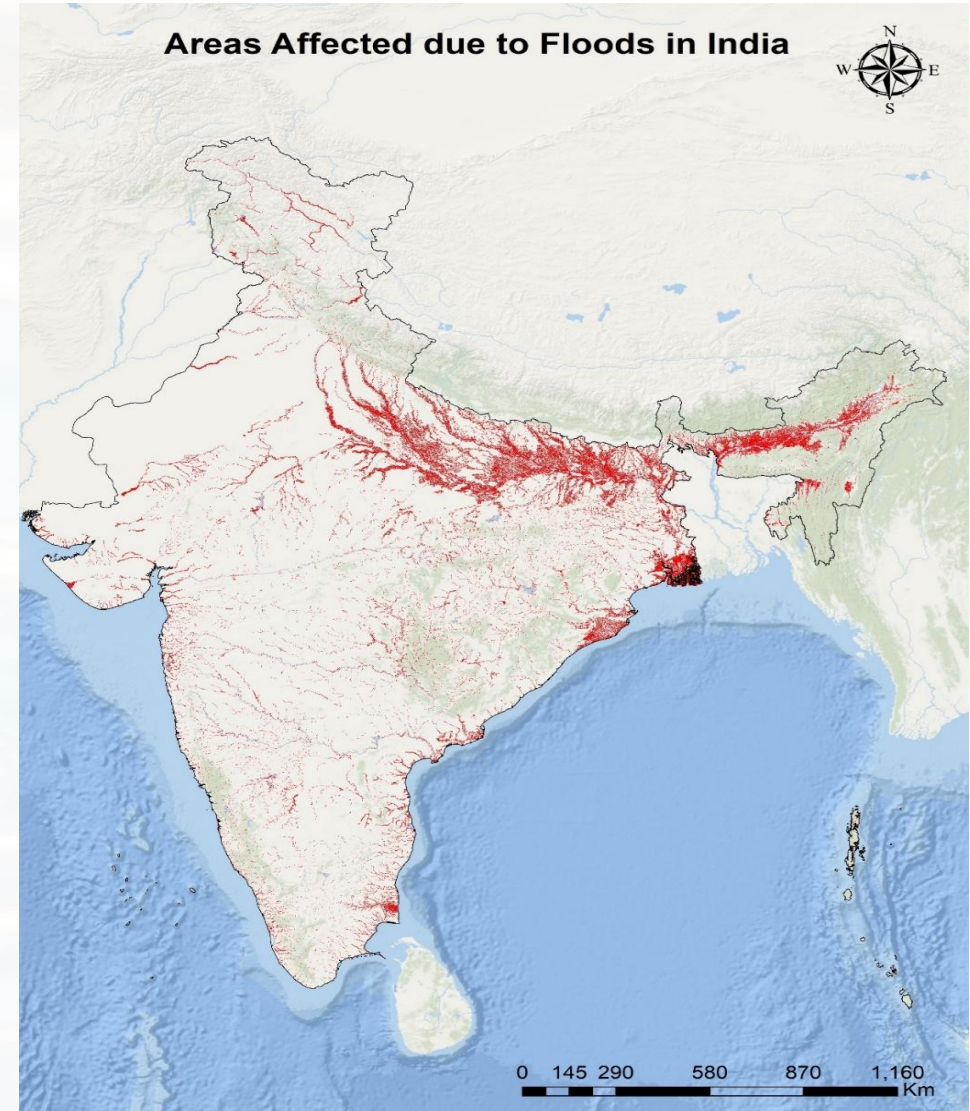
25<sup>th</sup> July, 2024



CENTRAL WATER COMMISSION

# FLOOD AFFECTED AREA

- **Flood Affected Area-** An area of land adjoining a stream/ watercourse/ river which is susceptible to being inundated due to floods in any given year, obtained by aggregating each pixel, wetted at least once in a year, in any satellite source.
- Under the guidance of Expert Committee, the scientific study conducted on the basis of Satellite Imageries (freely available) during the period 1986-2022 (37 years).
- Total Flood Affected Areas in India during the period 1986- 2022 is assessed as **21.213 Mha**.



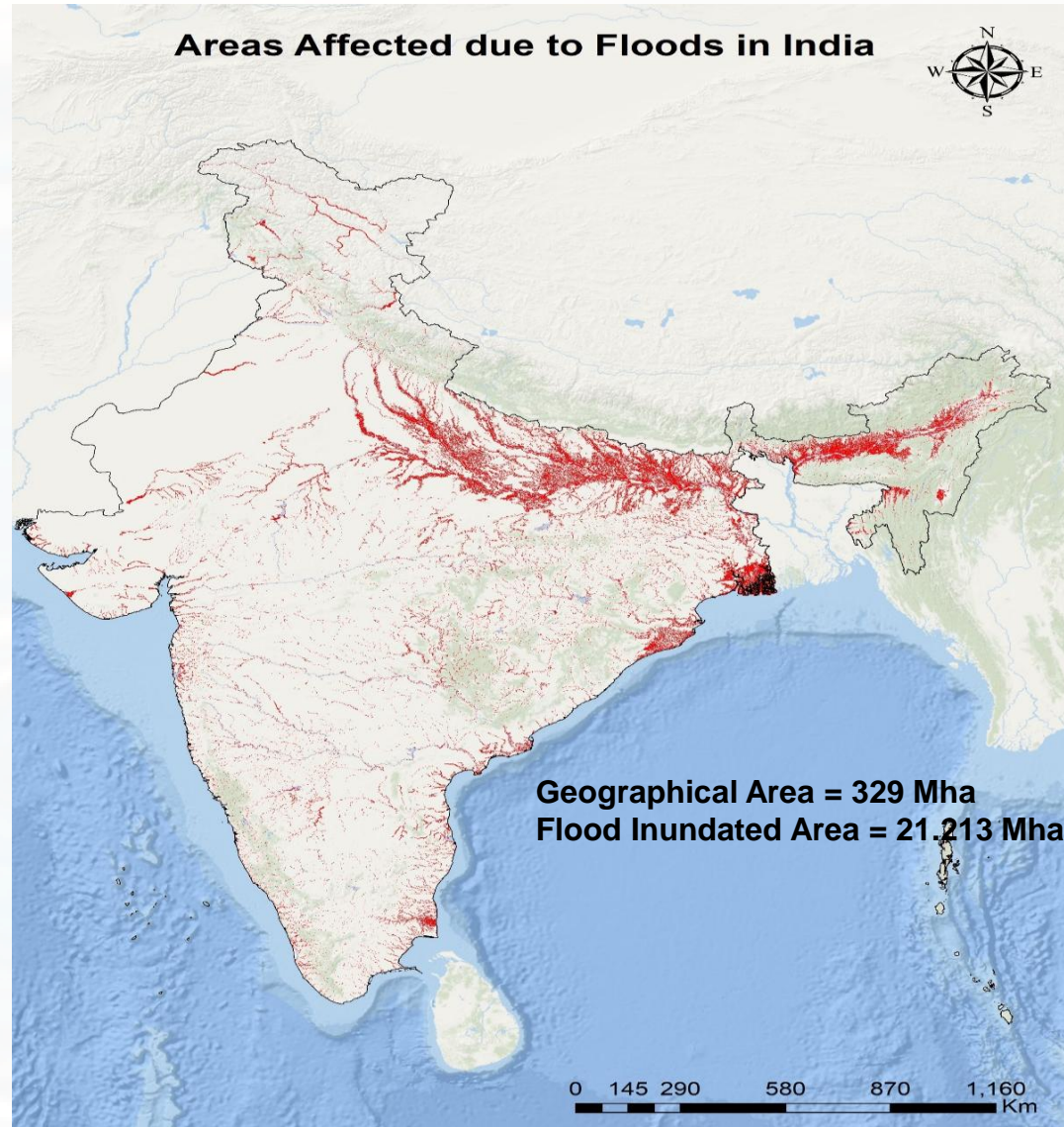
# States / UTs – wise Aggregated Extent of Flood Affected Areas (1986-2022)

Sl. No.	States / UTs	Area Affected (Mha)	Area Protected (Mha)
1	Andhra Pradesh	0.699	1.310
2	Arunachal Pradesh	0.106	0.100
3	Assam	2.477	2.110
4	Bihar	2.914	3.692
5	Chhattisgarh	0.447	0.000
6	Goa	0.024	0.003
7	Gujarat	0.588	0.483
8	Haryana	0.130	2.000
9	Himachal Pradesh	0.172	0.018
10	Jharkhand	0.413	0.001
11	Karnataka	0.536	0.005
12	Kerala	0.254	0.346
13	Madhya Pradesh	0.983	0.004
14	Maharashtra	0.888	0.001
15	Manipur	0.083	0.132
16	Meghalaya	0.050	0.015
17	Mizoram	0.027	0.000

Sl. No.	States / UTs	Area Affected (Mha)	Area Protected (Mha)
18	Nagaland	0.017	0.632
19	Odisha	1.024	0.630
20	Punjab	0.121	3.190
21	Rajasthan	0.712	0.082
22	Sikkim	0.005	0.041
23	Tamil Nadu	0.665	0.122
24	Telangana	0.216	-
25	Tripura	0.062	0.033
26	Uttar Pradesh	5.175	1.703
27	Uttarakhand	0.114	0.002
28	West Bengal	1.840	3.584
29	A & N (UT)	0.020	-
30	Chandigarh (UT)	0.000	-
31	Daman, Diu and Dadar & Nagar Haveli (UT)	0.003	-
32	Delhi (UT)	0.011	0.078
33	Jammu & Kashmir (UT)	0.166	0.217
34	Ladakh (UT)	0.270	-
35	Lakshadweep (UT)	0.000	-
36	Puducherry (UT)	0.001	0.004
<b>TOTAL</b>		<b>21.213</b>	<b>20.538</b>



# Output: Assessment of Area Affected Due to Floods in India (1986-2022)



## Most Affected States in terms of Aggregated Extent of Flood Affected Areas (As per CWC Study Report - 2023)



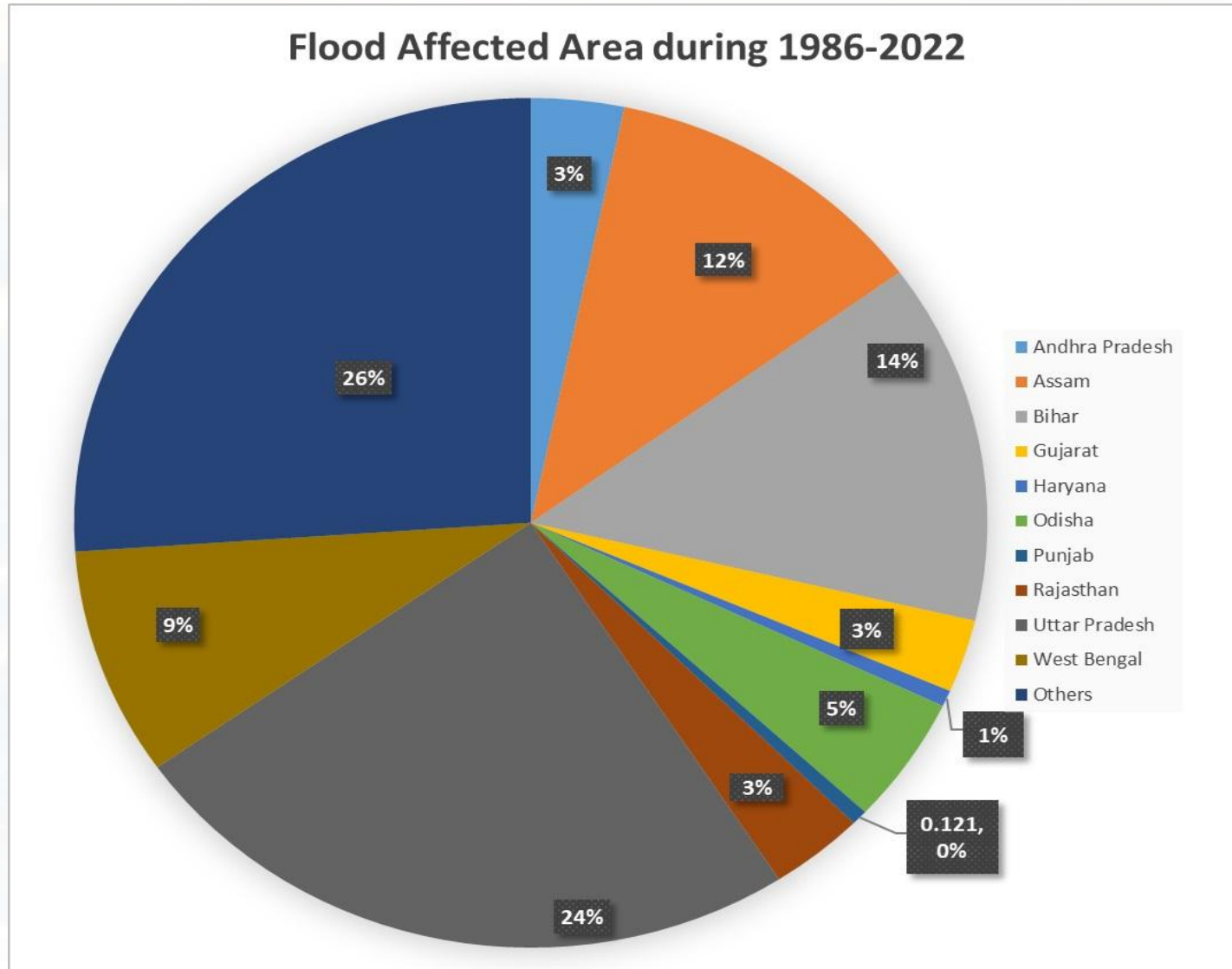
# States / UTs – wise Total Number of Districts Affected by Floods

Sl. No.	States / UTs	Number of Districts Affected by Floods
1	Andhra Pradesh	13
2	Arunachal Pradesh	25
3	Assam	33
4	Bihar	38
5	Chhattisgarh	28
6	Goa	2
7	Gujarat	32
8	Haryana	16
9	Himachal Pradesh	12
10	Jharkhand	24
11	Karnataka	30
12	Kerala	14
13	Madhya Pradesh	53
14	Maharashtra	36
15	Manipur	15
16	Meghalaya	11
17	Mizoram	8
18	Nagaland	11

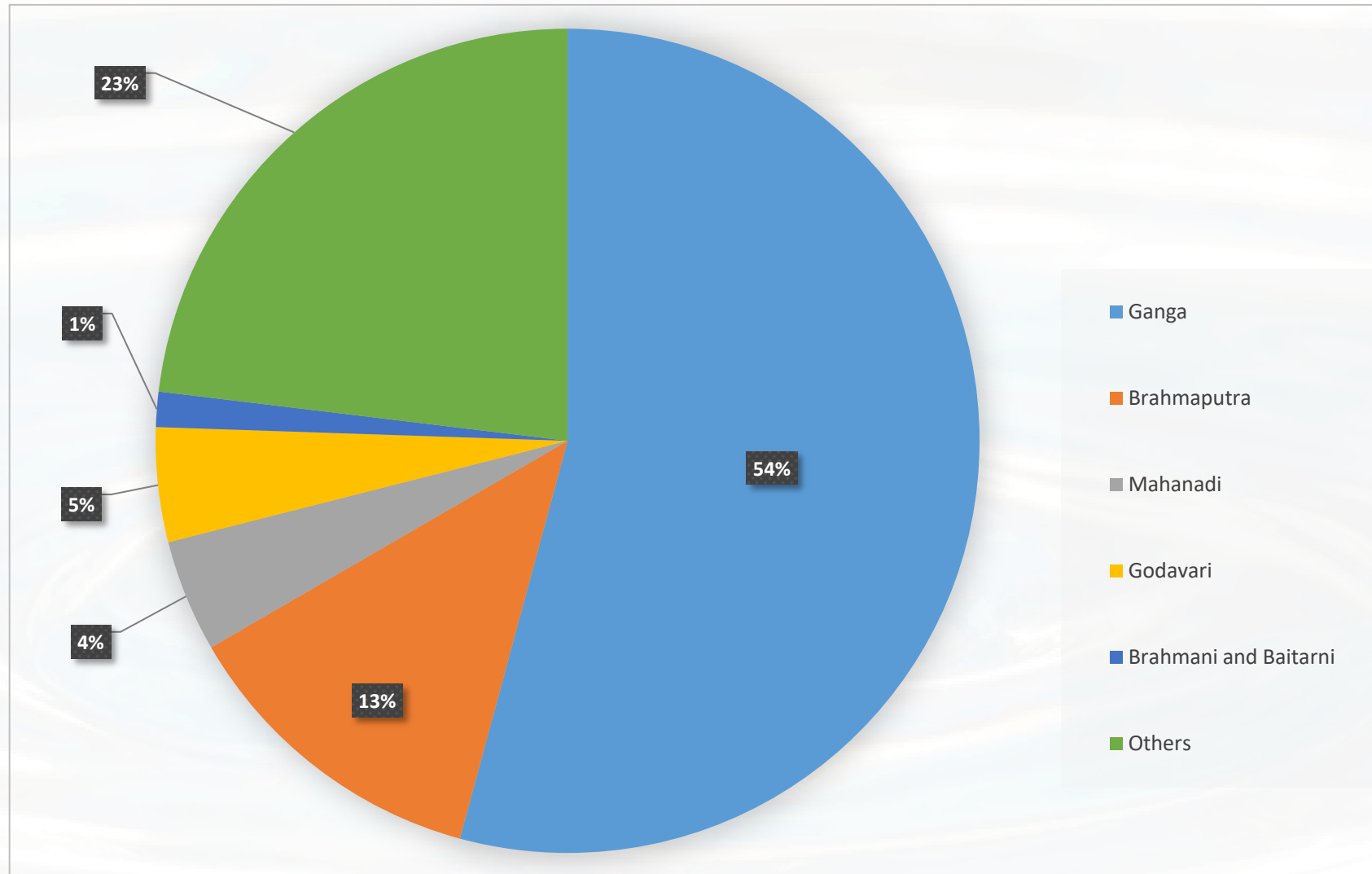
Sl. No.	States / UTs	Number of Districts Affected by Floods
19	Odisha	30
20	Punjab	21
21	Rajasthan	28
22	Sikkim	4
23	Tamil Nadu	37
24	Telangana	33
25	Tripura	8
26	Uttar Pradesh	75
27	Uttarakhand	13
28	West Bengal	23
29	A & N (UT)	2
30	Daman, Diu and Dadar & Nagar Haveli (UT)	2
31	Delhi (UT)	7
32	Jammu & Kashmir (UT)	22
33	Ladakh (UT)	2
34	Puducherry (UT)	4
<b>TOTAL</b>		<b>712</b>



# STATES/UTs-WISE BIFURCATION OF TOTAL FLOOD AFFECTED AREAS IN INDIA



# BASIN-WISE BIFURCATION OF TOTAL FLOOD AFFECTED AREAS IN INDIA







**THANK YOU**