

Executive Summary of flood inundation report on 10th July 2020

National Remote Sensing Centre, Hyderabad is conducting near real time flood mapping project for Assam using Satellite data. Flood was reported in Assam during 10 July 2020 due to heavy incessant rainfall. NRSC has analyzed Sentinel-1 SAR satellite data of 10 July 2020 and prepared a flood map for part of Assam. Copy of the flood layer is shared with North Eastern Space Applications Centre (NESAC) for Value added product. The flood layer is brought into GIS environment to generate detail flood inundation information district wise at village level. The administrative layers like district boundary, revenue circle, village boundary and thematic layer Land Use /Land Cover are utilized from Space Based Information support for Decentralized Planning (SIS-DP) project. On the date of data accusation **3114** Villages were under flood inundation in **07** districts of Assam covering **371.25** Ha. settlement areas and **67198.40** Ha. Agricultural land. Charaideo, Dhemaji, Dibrugarh, Lakhimpur, Majuli, Sibsagar, and Tinsukia, district were reported to be worst affected. Detail district wise flood inundation information can be summarized as below:

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
1	Charaideo	Mahmora RC	31	Agriculture	286.04	316.3509
				Built-Up	1.61	
				Other	28.70	
2	Dhemaji	Dhakuakhana (Part) RC	62	Agriculture	941.98	1178.26
				Built-Up	0.74	
				Other	235.54	
		Dhemaji RC	206	Agriculture	2978.57	4135.331
				Built-Up	2.52	
				Other	1154.24	
		Jonai RC	285	Agriculture	8609.27	18894.27
				Built-Up	21.60	
				Other	10263.40	
		Sissibargaon RC	373	Agriculture	8744.48	14583.13
				Built-Up	11.55	
				Other	5827.10	
3	Dibrugarh	Chabua	122	Agriculture	4677.94	9133.274
				Built-Up	48.90	
				Other	4406.43	
		Dibrugarh East	118	Agriculture	2542.83	2884.811
				Built-Up	38.27	
				Other	303.71	
		Dibrugarh West	177	Agriculture	4584.73	6508.729
				Built-Up	14.56	
				Other	1909.44	
		Jaipur RF	1	Other	0.46	0.46
		Moran	276	Agriculture	4458.06	4940.658
				Built-Up	6.15	
				Other	476.45	
		Naharkatia	149	Agriculture	3076.48	3517.209

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)	
3	Dibrugarh	Naharkatia	149	Built-Up	6.01	3489.69	
				Other	434.72		
		Tengakhat	202	Agriculture	2983.75		3614.544
				Built-Up	32.01		
		Tingkhong	170	Other	473.93		3614.544
				Agriculture	3235.39		
Built-Up	3.48						
Other	375.67						
4	Lakhimpur	Dhakuakhana	25	Agriculture	80.49	231.2629	
				Other	150.77		
5	Majuli	Majuli RC	2	Agriculture	2.21	51.70825	
				Other	49.50		
6	Sibsagar	Dimow RC	121	Agriculture	2342.15	3709.546	
				Built-Up	26.21		
				Other	1341.19		
7	Tinsukia	Doomdooma RC	321	Agriculture	7128.75	9890.583	
				Built-Up	25.17		
				Other	2736.67		
		Margherita RC	127	Agriculture	2211.43	3475.808	
				Built-Up	19.16		
				Other	1245.22		
		Sadiya RC	136	Agriculture	4835.36	13351.42	
				Built-Up	62.75		
				Other	8453.31		
		Tinsukia RC	210	Agriculture	3478.49	4185.383	
				Built-Up	50.57		
				Other	656.33		

