

Executive Summary of flood inundation report on 28th June 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 28 June 2020 due to heavy incessant rainfall. NRSC has analyzed Sentinel-1 SAR satellite data of 28 June 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 **3111** Villages were under flood inundation in **6** districts of Assam covering **1679.08** Ha. settlement areas and **95866.64** Ha. Agricultural land. Charaideo, Dhemaji, Dibrugarh, Lakhimpur, 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	112	Agriculture	4275.06	5219.593
				Built-Up	17.16	
				Other	927.37	
		Sonari RC	175	Agriculture	5089.60	6720.04
				Built-Up	0.67	
				Other	1629.77	
2	Dhemaji	Dhakuakhana (Part) RC	61	Agriculture	2191.09	2608.197
				Built-Up	0.95	
				Other	416.15	
		Dhemaji RC	175	Agriculture	4057.58	5422.613
				Built-Up	2.32	
				Other	1362.71	
		Jonai RC	201	Agriculture	5502.92	10414.57
				Built-Up	8.30	
				Other	4903.35	
		Sissibargaon RC	283	Agriculture	6797.12	11569.57
				Built-Up	0.95	
				Other	4771.50	
3	Dibrugarh	Chabua	104	Agriculture	3504.12	6711.656
				Built-Up	59.38	
				Other	3148.15	
		Dibrugarh East	110	Agriculture	3926.69	4357.132
				Built-Up	46.93	
				Other	383.52	
		Dibrugarh West	160	Agriculture	8730.31	12987.71
				Built-Up	36.59	
				Other	4220.80	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
3	Dibrugarh	Moran	287	Agriculture	8309.33	9321.339
				Built-Up	23.11	
				Other	988.90	
		Naharkatia	143	Agriculture	4842.48	6118.833
				Built-Up	6.83	
				Other	1269.53	
		Tengakhata	201	Agriculture	5626.19	6874.404
				Built-Up	109.43	
				Other	1138.78	
		Tingkhong	185	Agriculture	5536.39	6646.71
				Built-Up	12.14	
				Other	1098.18	
4	Lakhimpur	Dhakuakhana	18	Agriculture	171.57	347.3405
				Other	175.77	
5	Sibsagar	Amguri RC	17	Agriculture	182.49	234.3844
				Built-Up	8.24	
				Other	43.65	
		Dimow RC	182	Agriculture	10233.25	15147.74
				Built-Up	50.66	
				Other	4863.84	
		Nazira RC	91	Agriculture	1383.69	1690.351
				Built-Up	5.74	
				Other	300.92	
		Sibsagar RC	156	Agriculture	2675.53	3057.44
				Built-Up	9.45	
				Other	372.46	
6	Tinsukia	Doomdooma RC	210	Agriculture	5998.41	8249.174
				Built-Up	31.47	
				Other	2219.30	
		Margherita RC	37	Agriculture	1014.32	1523.791
				Built-Up	15.11	
				Other	494.36	
		Sadiya RC	51	Agriculture	855.62	1679.388
				Built-Up	35.92	
				Other	787.85	
		Tinsukia RC	152	Agriculture	4962.88	5997.686
				Built-Up	99.54	
				Other	935.26	

