

Executive Summary of flood inundation report on 01st 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 01 July 2020 due to heavy incessant rainfall. NRSC has analyzed ResourceSat-2 pre-flood data and Sentinel-1A SAR satellite data of 01 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 acquisition **3,984** Villages were under flood inundation in **09** districts of Assam covering **2060.15 Ha** settlement areas and **52250.35 Ha**. Agricultural land. Baksa, Barpeta, Bongaigaon, Chirang, Dhubri, Goalpara, Kamrup Rural, Kokrajhar and Salmara-Mankachar districts were reported to be worst affected. Detail district wise flood inundation information can be summarized as below.

Sl. No.	District	Revenue Circle (RC)	No. of Villages Inundated	LULC	Inundated Area (Ha)	Total (Ha)
1	Baksa	Barnagar	87	Agriculture	1533.79	1781.63
				Other	247.83	
		Sarupeta	19	Agriculture	147.87	198.16
				Built-Up	11.69	
2	Barpeta	Baghbor RC	88	Agriculture	4945.28	6146.66
				Built-Up	159.05	
				Other	1042.33	
		Barnagar (PT) RC	108	Agriculture	1581.87	2048.94
				Built-Up	0.58	
				Other	466.49	
		Barpeta RC	175	Agriculture	6515.93	8396.99
				Built-Up	154.44	
				Other	1726.62	
		Chengar RC	9	Agriculture	77.78	87.59
				Other	9.81	
		Kalgachia RC	90	Agriculture	1819.31	2377.22
				Built-Up	0.49	
				Other	557.42	
		Sarthebari RC	22	Agriculture	391.70	516.09
				Other	124.38	
Sarupeta RC	56	Agriculture	1186.00	1370.28		
		Other	184.28			
3	Bongaigaon	Bijni RC	104	Agriculture	1668.94	2349.47
				Built-Up	5.01	
				Other	675.52	
		Boitamari RC	120	Agriculture	606.31	2018.16
				Built-Up	86.25	

Sl. No.	District	Revenue Circle (RC)	No. of Villages Inundated	LULC	Inundated Area (Ha)	Total (Ha)		
		Bongaigaon RC	101	Other	1325.60	693.83		
				Agriculture	324.49			
				Built-Up	21.82			
		Sidli (Part) RC	46	Other	347.52	Agriculture	137.41	264.35
						Built-Up	1.84	
						Other	125.09	
		Srijangram RC	211	Agriculture	3383.34	Built-Up	82.67	5368.17
						Other	1902.16	
		4	Chirang	Bengtol RC	41	Agriculture	111.56	179.78
						Built-Up	0.72	
						Other	67.50	
Bijni RC	177			Agriculture	2292.58	Built-Up	14.17	3333.63
						Other	1026.88	
Sidli (PT) RC	126	Agriculture	954.29	Built-Up	19.39	1567.26		
				Other	593.57			
5	Dhubri	Agamoni RC	61	Agriculture	305.56	632.33		
				Built-Up	4.37			
				Other	322.39			
		Bagibari RC	140	Agriculture	2274.23	Built-Up	97.14	4442.33
						Other	2070.96	
		Bilasipara (PT) RC	194	Agriculture	1896.09	Built-Up	85.75	3049.83
						Other	1067.98	
		Chapar (PT) RC	163	Agriculture	1261.89	Built-Up	226.98	3406.93
						Other	1918.07	
		Dhubri (PT) RC	185	Agriculture	2978.26	Built-Up	393.48	8273.08
						Other	4901.34	
		Golokganj (PT) RC	87	Agriculture	618.22	Built-Up	20.90	2034.67
						Other	1395.55	
Gossaigaob (PT) RC	13	Agriculture	53.91	Built-Up	0.74	93.56		
				Other	38.92			
6	Goalpara	Balijana RC	162	Agriculture	1000.46	2466.59		
				Built-Up	24.98			
				Other	1441.15			

Sl. No.	District	Revenue Circle (RC)	No. of Villages Inundated	LULC	Inundated Area (Ha)	Total (Ha)
		Dudhnai RC	71	Agriculture	677.50	947.08
				Built-Up	4.26	
				Other	265.32	
		Lakhipur RC	174	Agriculture	1961.86	5098.93
				Built-Up	178.67	
				Other	2958.40	
		Matia RC	157	Agriculture	2748.45	6287.28
				Built-Up	32.74	
				Other	3506.09	
		Rangjuli RC	124	Agriculture	1220.97	2332.61
				Built-Up	0.53	
				Other	1111.11	
7	Kamrup Rural	Boko RC	56	Agriculture	113.30	171.02
				Built-Up	0.07	
				Other	57.64	
		Chamaria RC	60	Agriculture	2273.63	3092.92
				Built-Up	24.84	
				Other	794.44	
		Goroimari RC	75	Agriculture	104.28	167.07
				Built-Up	3.81	
				Other	58.98	
		Nagarbera RC	38	Agriculture	1734.52	4666.35
				Built-Up	42.01	
				Other	2889.82	
8	Kokrajhar	Bhowraguri	90	Agriculture	360.51	633.90
				Built-Up	4.68	
				Other	268.71	
		Dotma	166	Agriculture	680.66	1007.84
				Built-Up	2.69	
				Other	324.50	
		Gossaigaon	130	Agriculture	566.75	970.53
				Built-Up	19.73	
				Other	384.05	
		Kokrajhar	146	Agriculture	166.20	313.65
				Built-Up	4.96	
				Other	142.49	
9	Salmara-Mankachar	Mankachar RC	91	Agriculture	335.89	1287.86
				Built-Up	193.10	
				Other	758.88	
		South Salmara RC	79	Agriculture	1238.76	3285.90
				Built-Up	135.61	
				Other	1911.52	