

## *Executive Summary of flood inundation report on 08<sup>th</sup> 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 08 July 2020 due to heavy incessant rainfall. NRSC has analyzed Sentinel-1 SAR satellite data of 08 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 **4693** Villages were under flood inundation in **15** districts of Assam covering **1299.07**Ha. settlement areas and **91817.37** Ha. Agricultural land. Baska,Barpeta, Biswanath,Darrang Hojai, Kamrup Metro,Kamrup Rural, Karbi Anglong West, KarbiAnglong Diphu, Morigaon, Nalbari,Nagaon, Sunitpur,and Udalguri 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	Baska	Barnagar	14	Agriculture	50.79	56.02343
				Other	5.23	
		Goreswar	63	Agriculture	624.71	738.0278
				Built-Up	2.23	
				Other	111.09	
		Jalah	5	Agriculture	18.29	25.38851
				Built-Up	0.23	
				Other	6.86	
		Sarupeta	33	Agriculture	120.35	153.1329
				Built-Up	0.34	
				Other	32.43	
		Tamulpur	51	Agriculture	262.41	325.7929
				Built-Up	2.30	
Other	61.09					
Tihu	2	Agriculture	1.54	1.54		
2	Barpeta	Baghbor RC	51	Agriculture	896.28	1097.785
				Built-Up	70.72	
				Other	130.79	
		Bajali RC	36	Agriculture	147.46	173.8927
				Other	26.43	
		Barpeta RC	116	Agriculture	1815.58	2603.027
				Built-Up	9.02	
				Other	778.42	
		Chengar RC	12	Agriculture	124.68	134.3958
				Other	9.72	
Kalgachia RC	1	Other	1.11	1.11		

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
2	Barpeta	Sarthebari RC	136	Agriculture	1530.75	2132.453
				Built-Up	9.07	
				Other	592.63	
		Sarupeta RC	57	Agriculture	440.59	536.6926
				Built-Up	7.40	
				Other	88.69	
3	Biswanath	Biswanath RC	17	Agriculture	24.04	42.78197
				Other	18.74	
4	Darrang	Dalgaon	103	Agriculture	1137.67	1449.695
				Built-Up	2.97	
				Other	309.06	
		Kalaigaon	51	Agriculture	814.16	943.746
				Built-Up	0.56	
				Other	129.03	
		Khoirabari	36	Agriculture	554.33	687.3522
				Other	133.03	
		Mangaldoi	77	Agriculture	1219.25	1469.248
				Built-Up	2.47	
				Other	247.52	
		Pathorighat	98	Agriculture	922.43	1604.037
				Built-Up	30.35	
				Other	651.26	
		Sipajhar	97	Agriculture	1225.89	3019.368
				Built-Up	49.41	
				Other	1744.06	
		5	Goalpara	Matia RC	20	Agriculture
Other	404.46					
Rangjuli RC	19			Agriculture	163.50	323.2874
				Other	159.79	
6	Hojai	Doboka RC	80	Agriculture	2565.08	3830.014
				Other	1264.93	
		Hojai RC	117	Agriculture	3066.12	4433.367
				Built-Up	26.73	
				Other	1340.51	
		Lanka RC	130	Agriculture	5973.04	8744.759
				Built-Up	50.55	
				Other	2721.17	
		7	Kamrup Metro	Azara	11	Agriculture
Built-Up	25.21					
Other	546.24					
Chandrapur	23			Agriculture	159.97	1320.706
				Built-Up	64.68	
				Other	1096.05	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)		
7	Kamrup Metro	Dispur	6	Built-Up	64.98	153.4749		
				Other	88.50			
		Guwahati	3	Built-Up	0.10	7.500197		
				Other	7.40			
		North Guwahati	3	Built-Up	4.62	9.514888		
				Other	4.89			
		Sonapur	63	Agriculture	1132.00	3079.53		
				Built-Up	31.26			
				Other	1916.26			
		8	Kamrup Rural	Boko RC	8	Agriculture	5.93	12.98131
						Other	7.05	
				Chamaria RC	43	Agriculture	751.26	945.866
Built-Up	4.12							
Other	184.09							
Agriculture	1.61							
Other	4.79							
Goreswar (PT) RC	36			Agriculture	265.80	318.8772		
				Built-Up	0.90			
				Other	52.18			
Goroimari RC	30			Agriculture	189.77	324.061		
				Built-Up	0.47			
				Other	133.82			
Hajo RC	93			Agriculture	1200.51	1702.081		
				Built-Up	7.10			
				Other	494.47			
Kamalpur RC	104			Agriculture	617.77	723.0918		
				Built-Up	4.58			
				Other	100.74			
Koya RC	6			Agriculture	16.59	17.90902		
				Other	1.32			
Nagarbera RC	27			Agriculture	1086.95	2229.32		
				Built-Up	15.79			
				Other	1126.58			
North Guwahati (PT) RC	35			Agriculture	429.49	825.4266		
				Built-Up	22.54			
				Other	373.40			
Palashbari RC	9			Agriculture	34.25	38.64236		
				Built-Up	2.31			
				Other	2.08			
Rangia RC	127			Agriculture	329.60	386.8179		
				Built-Up	1.49			
				Other	55.73			
9	Karbi			Donka RC	36	Agriculture	1915.05	2695.09

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
	Anglong West	Donka RC	36	Built-Up	41.66	2695.09
				Other	738.38	
10	Karbi Anglong Diphu	Phuloni RC	7	Agriculture	5582.67	6557.481
				Other	974.81	
11	Morigaon	Bhuragaon	67	Agriculture	488.22	1274.622
				Built-Up	2.96	
				Other	783.44	
		Laharighat	42	Agriculture	572.94	728.5152
				Other	155.58	
		Marigaon	201	Agriculture	4945.56	6923.359
				Built-Up	188.89	
				Other	1788.91	
		Mayong	154	Agriculture	8462.87	12542.13
				Built-Up	27.23	
				Other	4052.03	
		Mikirbheta	92	Agriculture	3800.87	4280.048
Built-Up	14.35					
Other	464.82					
12	Nagaon	Dhing RC	104	Agriculture	2626.85	5053.082
				Built-Up	14.85	
				Other	2411.38	
		Kaliyabor RC	71	Agriculture	714.74	837.2648
				Built-Up	11.87	
				Other	110.66	
		Kampur RC	134	Agriculture	2939.26	7070.997
				Other	4131.73	
		Nagaon RC	140	Agriculture	3383.81	4256.189
				Built-Up	16.61	
				Other	855.77	
		Raha RC	133	Agriculture	5179.06	8819.122
				Built-Up	12.16	
				Other	3627.91	
		Rupahi RC	100	Agriculture	1328.44	3951.223
				Built-Up	16.81	
				Other	2605.97	
		Samaguri RC	94	Agriculture	1230.51	2125.88
Built-Up	0.83					
Other	894.53					
13	Nalbari	Barbhag RC	15	Agriculture	32.56	55.76101
				Other	23.20	
		Barkhetri RC	86	Agriculture	546.30	1103.807
				Built-Up	2.25	
				Other	555.25	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
13	Nalbari	Ghograpar (PT) RC	146	Agriculture	160.92	222.4355
				Other	61.51	
		Nalbari RC	5	Agriculture	3.83	4.375543
				Other	0.54	
		Pachim Nalbari RC	20	Agriculture	59.14	97.20773
				Other	38.06	
		Tihu(PT) RC	2	Agriculture	1.19	1.917628
				Other	0.73	
14	Sonitpur	Chariduar RC	190	Agriculture	3841.47	5534.316
				Built-Up	111.38	
				Other	1581.47	
		Dhekiajuli RC	209	Agriculture	6312.00	8626.072
				Built-Up	34.73	
				Other	2279.33	
		Na-Duar RC	138	Agriculture	2317.78	3415.79
				Built-Up	18.80	
				Other	1079.21	
		Tezpur RC	97	Agriculture	1219.51	2595.566
				Built-Up	273.39	
				Other	1102.67	
15	Udalguri	Dalgaoon (PT) RC	22	Agriculture	176.81	192.9438
				Other	16.13	
		Dhekiajuli (PT) RC	11	Agriculture	58.40	63.87017
				Other	5.47	
		Harisinga RC	42	Agriculture	280.38	354.1322
				Other	73.75	
		Kalaigaon RC	105	Agriculture	1491.47	1794.708
				Built-Up	3.06	
				Other	300.18	
		Khoirabari RC	78	Agriculture	737.76	910.2278
				Built-Up	0.13	
				Other	172.34	
		Mangaldoi (PT) RC	32	Agriculture	980.48	1023.34
				Other	42.86	
Udalguri RC	71	Agriculture	339.96	391.7435		
		Other	51.79			

