

Executive Summary of flood inundation report on 03rd 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 03 July 2020 due to heavy incessant rainfall. NRSC has analyzed Sentinel-1A SAR satellite data of 03 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 **4,652** Villages were under flood inundation in **14** districts of Assam covering **1767.73** Ha. settlement areas and **106486.07** Ha. Agricultural land. Biswanath, Chareideo, Dhemaji, Dibrugarh, Golaghat, Hojai, Jorhat, Karbi Anglong West, Karbi Anglong Diphu, Lakhimpur, Majuli, Nagaon, Sibsagar, and Sunitpur, 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	Biswanath	Biswanath RC	87	Agriculture	330.30	461.966
				Built-Up	1.32	
				Other	130.34	
		Gohpur RC	62	Agriculture	767.32	1742.116
				Other	974.79	
		Helem RC	46	Agriculture	1013.08	2158.892
Built-Up	3.53					
Other	1142.28					
2	Charideo	Mahmora	111	Agriculture	4061.87	4277.865
				Built-Up	0.04	
				Other	215.96	
		Sonari	88	Agriculture	2041.98	2235.182
				Built-Up	1.71	
				Other	191.49	
3	Dhemaji	Dhakuakhana	64	Agriculture	2144.21	2653.824
				Built-Up	0.10	
				Other	509.51	
			265	Agriculture	5215.96	7605.129
				Built-Up	6.08	
				Other	2383.09	
		Jonai	45	Agriculture	410.56	821.4079
				Other	410.85	
		Sissibargaon	343	Agriculture	5602.24	8550.038
				Built-Up	12.02	
Other	2935.77					
Subansiri	197	Agriculture	2625.00	3594.056		

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)		
	Dhemaji			Built-Up	0.90			
				Other	968.16			
4	Dibrugarh	Dibrugarh East	46	Agriculture	539.18	678.7877		
				Built-Up	15.92			
				Other	123.69			
		Dibrugarh West	162	Agriculture	6118.28	9343.618		
				Built-Up	63.19			
				Other	3162.14			
		Moran	187	Agriculture	6890.00	7537.962		
				Built-Up	17.42			
				Other	630.55			
		Tingkhong	56	Agriculture	986.49	1017.707		
				Other	31.22			
		5	Golaghat	Boiakhat RC	76	Agriculture	2584.72	6651.6
Built-Up	23.29							
Other	4043.59							
Dergaon RC	71			Agriculture	694.14	1103.506		
				Built-Up	7.68			
				Other	401.68			
Golaghat RC	147			Agriculture	5118.71	7044.177		
				Built-Up	31.55			
				Other	1893.92			
Khumtai RC	82			Agriculture	2062.02	2920.097		
				Built-Up	19.49			
				Other	838.59			
Morangi RC	50			Agriculture	669.56	877.6128		
				Built-Up	24.83			
				Other	183.23			
Sarupathar RC	75			Agriculture	3034.66	3927.057		
				Built-Up	25.28			
				Other	867.12			
6	Hojai			Doboka RC	44	Agriculture	364.53	545.5444
						Other	181.02	
				Hojai RC	54	Agriculture	975.45	1190.131
		Other	214.68					
		Lanka RC	36	Agriculture	75.19	110.1882		
				Other	35.00			
7	Jorhat	Jorhat East RC	66	Agriculture	661.73	1572.034		
				Built-Up	1.98			
				Other	908.32			
		Jorhat West RC	110	Agriculture	1322.19	1891.865		
				Built-Up	20.51			
				Other	549.16			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
7	Jorhat	Mariani RC	49	Agriculture	634.78	866.8607
				Built-Up	2.29	
				Other	229.79	
		Teok RC	142	Agriculture	3965.42	5189.09
				Built-Up	8.38	
				Other	1215.29	
		Titabor RC	153	Agriculture	5078.08	6450.373
				Built-Up	1.91	
				Other	1370.37	
8	Karbia Anglong Diphu	Diphu RC	6	Agriculture	132.47	170.5526
				Built-Up	0.91	
				Other	37.18	
		Phuloni RC	1	Agriculture	220.87	257.2489
				Other	36.38	
		Silonijan RC	6	Agriculture	20.36	37.62957
Other	17.27					
9	Karbi Anglong West	Donka RC	3	Agriculture	11.07	31.13657
				Other	20.07	
10	Lakhimpur	Bihpuria	144	Agriculture	1144.42	2572.844
				Built-Up	11.78	
				Other	1416.64	
		Dhakuakhana	188	Agriculture	4634.03	7316.698
				Built-Up	1.17	
				Other	2681.50	
		Kadam	111	Agriculture	590.90	676.861
				Built-Up	0.81	
				Other	85.15	
		Naobaicha	76	Agriculture	488.47	865.0977
				Other	376.62	
		Narayanpur	107	Agriculture	623.98	919.8134
				Built-Up	1.99	
				Other	293.85	
		North Lakhimpur	189	Agriculture	2315.48	3636.349
				Built-Up	2.58	
				Other	1318.28	
		Subansiri(Part)	125	Agriculture	2356.95	4745.418
Built-Up	19.60					
Other	2368.87					
11	Majuli	Majuli RC	141	Agriculture	3592.46	4613.196
				Built-Up	23.24	
				Other	997.50	
12	Nagaon	Kalibor RC	35	Agriculture	338.18	2925.619
				Other	2587.44	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
12	Nagaon	Kampur RC	2	Other	4.64	4.64
		Nagaon RC	12	Agriculture	74.77	77.44479
				Other	2.67	
		Rupahi RC	4	Agriculture	1.04	694.3788
				Other	693.34	
		Samaguri RC	4	Agriculture	11.60	13.5506
				Other	1.95	
		13	Sibsagar	Amguri RC	115	Agriculture
Built-Up	1.63					
Other	1077.32					
Dimow RC	92			Agriculture	9627.86	14336.85
				Built-Up	64.76	
				Other	4644.24	
Nazira RC	115			Agriculture	3295.39	3862.567
				Built-Up	7.03	
				Other	560.14	
Sibsagar RC	148			Agriculture	7131.40	8442.579
				Built-Up	8.08	
				Other	1303.10	
14	Sonitpur	Na-Duar RC	75	Agriculture	326.26	737.3059
				Other	411.04	
		Tezpur RC	39	Agriculture	163.19	445.7399
				Built-Up	31.61	
				Other	250.94	