

Executive Summary of flood inundation report on 2nd 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 02 June 2020 due to heavy incessant rainfall. NRSC has analyzed Sentinel-1 SAR satellite data of 02 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 **3,871** Villages were under flood inundation in **14** districts of Assam covering **2592Ha** settlement areas and **67814** Ha Agricultural land. Cachar, Nagaon, Karimganj, Morigaon, Kamrup Rural, Barpeta, Hailakandi and Hojai 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	Baksa	Barnagar	36	Agriculture	0.43	41.32
				Other	1.34	
		Sarupeta	60	Agriculture	8.96	
				Built-Up	13.87	
				Other	16.72	
2	Barpeta	Baghbor	36	Agriculture	257.64	10613
				Built-Up	46.10	
				Other	101.32	
		Bajali	31	Agriculture	163.61	
				Built-Up	0.19	
				Other	37.34	
		Barpeta	142	Agriculture	2002.04	
				Built-Up	20.27	
				Other	1562.60	
		Chengar	25	Agriculture	12.76	
				Other	3.54	
		Sarthebari	173	Agriculture	4126.95	
				Built-Up	23.94	
				Other	1518.67	
		Sarupeta	60	Agriculture	594.97	
Other	141.54					
3	Cachar	Katigora	178	Agriculture	3761.2	33589
				Built-Up	45.46	
				Other	3847.96	
		Lakhipur	101	Agriculture	1676.4	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	
4	Cachar	Lakhipur	101	Built-Up	16.65	33589
				Other	883.66	
		Silchar	250	Agriculture	4811.35	
				Built-Up	458.89	
				Other	5601.78	
		Sonai	197	Agriculture	6432.6	
				Built-Up	237.55	
				Other	4367.82	
		Udarbond	54	Agriculture	1095.86	
				Built-Up	26.2	
Other	325.83					
5	Darrang	Khoirabari	13	Agriculture	99.71	3592
				Built-Up	1.43	
				Other	33.44	
		Mangaldoi	9	Agriculture	36.91	
				Built-Up	11.29	
				Other	87.78	
		Pathorighat	77	Agriculture	729.39	
				Built-Up	40.77	
				Other	1274.86	
		Sipajhar	159	Agriculture	356.2	
				Built-Up	12.8	
				Other	907	
5	Hojai	Doboka	38	Agriculture	1106.52	7355
				Other	382.08	
		Hojai	95	Agriculture	4436.04	
				Built-Up	8.21	
				Other	1420.42	
		Lanka	11	Agriculture	0.05	
				Built-Up	0.81	
				Other	0.92	
6	Kamrur (Metro)	Azara	18	Agriculture	47.41	1837
				Built-Up	46.9	
				Other	314.85	
		Chandrapur	10	Agriculture	35.88	
				Built-Up	11.5	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	
6	Kamrup (Metro)			Other	296.06	1,837
		Dispur	7	Built-Up	1.93	
				Other	0.18	
		Guwahati	4	Built-Up	0.59	
				Other	24.56	
		North Guwahati	2	Built-Up	1.38	
				Other	14.17	
		Sonapur	43	Agriculture	155.78	
				Built-Up	37.66	
Other	848.6					
7	Kamrup (Rural)	Boko	4	Agriculture	21.51	10,876
				Other	1.49	
		Chamaria	25	Agriculture	373.91	
				Built-Up	7.41	
				Other	281.52	
		Goreswar (PT)	35	Agriculture	448.64	
				Built-Up	4.83	
				Other	241.79	
		Hajo	74	Agriculture	1557.9	
				Built-Up	34.08	
				Other	1611.09	
		Kamalpur	105	Agriculture	2178.42	
				Built-Up	61.99	
				Other	1076.8	
		Nagarbera	27	Agriculture	622.74	
				Built-Up	17.01	
				Other	1321.09	
		North Guwahati (PT)	2	Agriculture	272.05	
				Built-Up	65.48	
				Other	205.48	
		Palashbari	32	Agriculture	3.98	
Built-Up	24.81					
Other	259.84					
Rangia	31	Agriculture	138.87			
		Built-Up	0.37			
		Other	42.9			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	
7	Karimganj	Badarpur	82	Agriculture	532.53	18957
				Built-Up	106.61	
				Other	2300.93	
		Karimganj	175	Agriculture	1772.94	
				Built-Up	299.41	
				Other	1614.26	
		Nilambazar	193	Agriculture	2931.01	
				Built-Up	226.27	
				Other	3700.41	
		Patharkandi	70	Agriculture	677.17	
				Built-Up	119.16	
				Other	727.19	
		Ramkrishna Nagar	131	Agriculture	1156.93	
				Built-Up	26.54	
				Other	2765.61	
8	Morigaon	Bhuragaon	20	Agriculture	85.9	11246
				Other	201.24	
		Marigaon	153	Agriculture	2899.53	
				Built-Up	243.35	
				Other	1799.36	
		Mayong	136	Agriculture	3559.1	
				Built-Up	9.63	
				Other	2094.43	
		Mikirbbeta	24	Agriculture	283.43	
				Other	70.3	
9	Nagaon	Kampur	124	Agriculture	4109.37	21,808
				Built-Up	3.47	
				Other	5451.03	
		Nagaon	95	Agriculture	1871.55	
				Built-Up	4.1	
				Other	661.16	
		Raha	104	Agriculture	4131.07	
				Built-Up	14.99	
				Other	4172.11	
		Samaguri	72	Agriculture	1060.56	
Built-Up	0.95					

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)		
	Nagaon	Samaguri	72	Other	327.97	2239	
10	Nalbari	Barbhag	31	Agriculture	87.21		
				Other	199.04		
		Barkhetri	80	Agriculture	527.88		
				Built-Up	3.22		
				Other	385.11		
		Nalbari	11	Agriculture	8.33		
				Other	3.87		
		Pachim Nalbari	63	Agriculture	618.45		
				Other	368.36		
		Tihu(PT)	8	Agriculture	5.11		
Other	32.58						
11	West Karbi Anglong	Donka	25	Agriculture	155.03		582
				Other	427.66		
12	Goalpara	Dudhnai	1	Agriculture	0.07	738	
				Built-Up	0.02		
				Other	0.04		
		Matia	12	Agriculture	83.93		
				Other	429.13		
		Rangjuli	14	Agriculture	91.03		
Other	133.75						
	Hilakandi	Algapur	81	Agriculture	841.23	10361	
				Built-Up	31.68		
				Other	2973.3		
		Hailakandi	86	Agriculture	1336.52		
				Built-Up	196.38		
				Other	2114.41		
		Katlichara	25	Agriculture	182.86		
				Built-Up	0.38		
				Other	283.83		
		Lala	83	Agriculture	1239.24		
				Built-Up	25.52		
				Other	1135.91		