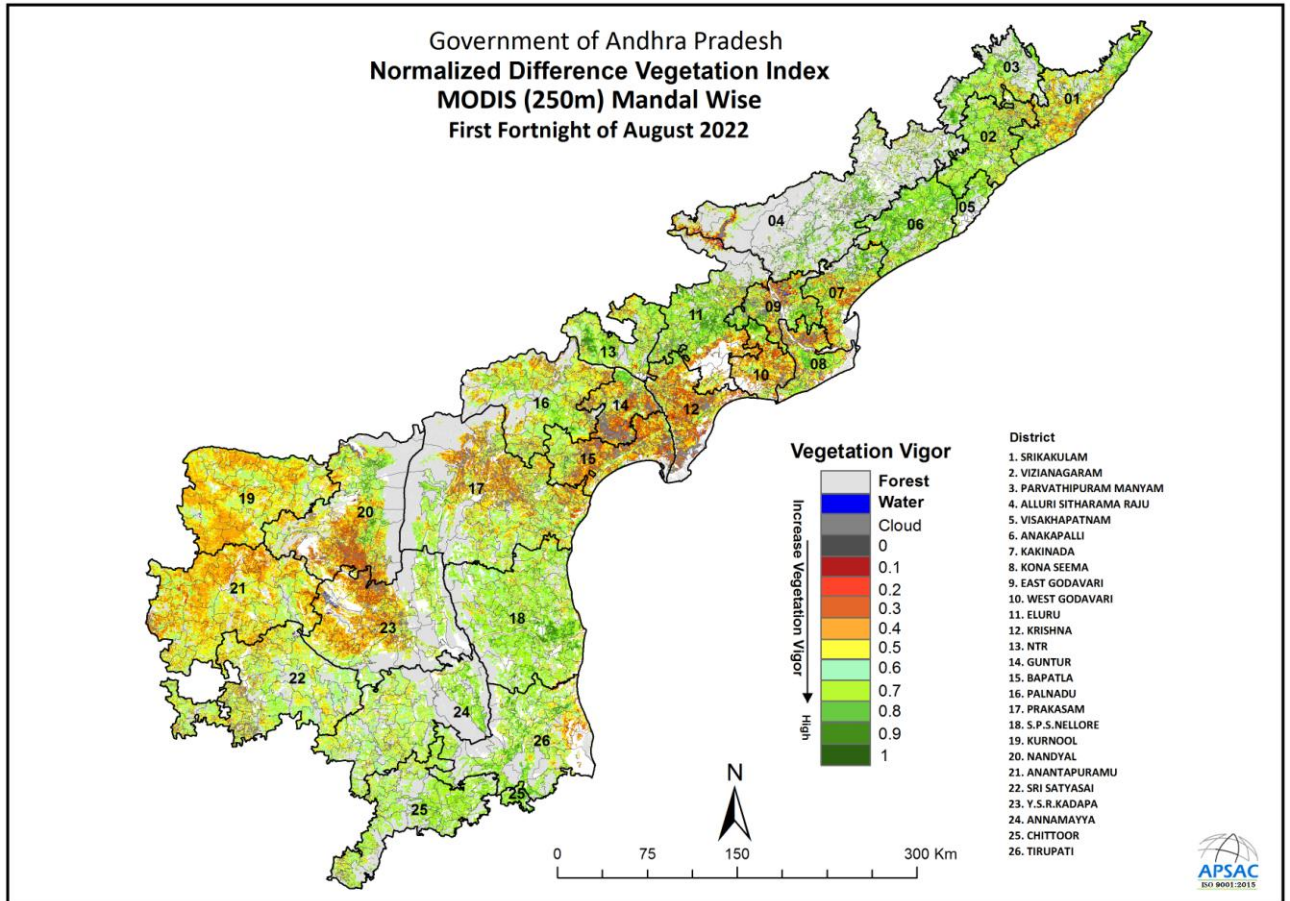




# Technical Report: Drought Monitoring

## Remote sensing Indicators (NDVI, NDWI and VCI) for Drought Declaration in Andhra Pradesh State *up to 1st FN August 2022 (Kharif Season)*



Prepared by

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Prepared for

**Andhra Pradesh State Disaster Management Authority (APSDMA)**

Revenue (DM) Department

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## Background

Advancements in satellite remote sensing technology has enabled regular monitoring of crop conditions/vigour over large regions. Among the various spectral vegetation indices commonly derived from remote sensing data, Normalized Difference Vegetation Index (NDVI) is most widely used for operational assessment of drought owing to the ease in calculation and interpretation and also its ability to partially compensate for the effects of atmosphere, illumination geometry etc. NDVI is derived using the formula  $(NIR - Red) / (NIR + Red)$ , where NIR and Red are the reflectance in visible and near infrared channels. Water, clouds and snow have higher reflectance in the visible region and consequently NDVI assumes negative values for these features. Bare soil and rocks exhibit similar reflectance in both visible and near IR regions and the index values are near zero. The NDVI values for vegetation generally range from 0.2 to 0.6, the higher index values being associated with greater green leaf area and biomass. Shortwave Infrared (SWIR) band is sensitive to moisture available in soil as well as in crop canopy. In the beginning of the cropping season, soil background is dominant hence SWIR is sensitive to soil moisture in the top 12 cm. As the crop growth progresses, SWIR becomes sensitive to leaf moisture content. SWIR band provides only surface wetness information. Normalized Difference Wetness Index (NDWI), computed using SWIR data, can complement NDVI for drought assessment particularly in the beginning of the cropping season. NDWI is derived as follows:  $NDWI = (NIR - SWIR) / (NIR + SWIR)$  where, NIR and SWIR are the reflected radiation in Near Infrared and Shortwave Infrared channels. Higher values of NDWI signify more surface wetness. Satellite based crop condition anomalies which point towards agricultural drought can be generated by computing Vegetation Condition Index (VCI) of NDVI and VCI of NDWI. While combining VCI of NDVI and NDWI, the minimum of two values can be taken, i.e. if at least one is in Severe category, the category will be considered as Severe. If at least one is moderate then category will be taken as moderate (**As per the Drought manual:2016 and amendments**). Fortnightly (FN) NDVI, NDWI and VCI status is being generated and submitted to Andhra Pradesh State Disaster Management Authority and Revenue (DM) department for monitoring and Declaration of drought at mandal level in the state of Andhra Pradesh.

VCI Value (%)	Vegetation Condition	Description
60-100	Normal	Crop condition is Normal
40-60	Moderate	Crop condition is Moderate
0-40	Severe	Crop condition is Severe



The 26 districts of Andhra Pradesh have 679 mandals, out of total mandals 393-Normal, 102-Moderate and 172 mandals are Severe. The 12 mandals are excluded from the vegetation condition assessment as these mandals under predominantly urban or forest cover. The status of indicators at district and mandal level are shown in Table-1 and Table-2 respectively.

**Table 1: District wise number of Mandals under Normal, Moderate and Severe up to 1st FN August2022.**

Sno.	District	No. of Mandals	VCI		
			Normal	Moderate	Severe
1	A. Sitharama Raju	22	18	3	1
2	Anakapalli	24	22	0	2
3	Anantapuramu	31	25	5	1
4	Annamayya	30	30	0	0
5	Bapatla	25	6	5	14
6	Chittoor	31	28	3	0
7	East Godavari	19	3	6	10
8	Eluru	28	11	8	9
9	Guntur	18	1	0	16
10	Kakinada	21	10	8	3
11	Kona Seema	22	5	2	15
12	Krishna	25	0	2	23
13	Kurnool	26	21	3	1
14	Manyam	15	9	3	3
15	Nandyal	29	27	0	1
16	NTR	20	8	5	3
17	Palnadu	28	15	8	5
18	Prakasam	38	21	8	9
19	S.P.S.Nellore	38	36	1	0
20	Sri Satyasai	32	30	2	0
21	Srikakulam	30	0	8	22
22	Tirupati	34	28	6	0
23	Visakhapatnam	11	5	2	0
24	Vizianagaram	27	8	4	15
25	West Godavari	19	1	3	15
26	Y.S.R.Kadapa	36	25	7	4
Grand Total		<b>679</b>	<b>393</b>	<b>102</b>	<b>172</b>

**\*Note:**

- Twelve urban mandals are excluded from the vegetation condition assessment.
- The excluded mandals are as follows: Visakhapatnam (Seethammadhara, Maharani-peta, Gopalapatnam, Mulagada), NTR (Vijayawada North, Vijayawada East, Vijayawada Central, Vijayawada West), Guntur (Guntur urban), Kurnool (Kurnool urban), Nandyal (Srisailam) and S.P.S Nellore (Nellore urban).



Table 2: Mandal wise status: Normal, Moderate and Severe up 1st FN August2022.

Table with 16 columns: dmcode, DISTRICT, MANDAL, NDVI (fn1\_Aug\_22, Avg., Max, Min, VCI, NDVI Status), NDWI (fn1\_Aug\_22, Avg., Max, Min, VCI, NDWI Status), Final Status. Rows include mandals like Kothuru, Hiramandalam, Lakshminarsupeta, etc.



dmcode	DISTRICT	MANDAL	NDVI						NDWI						Final Status
			fn1_Aug_22	Avg.	Max	Min	VCI	NDVI Status	fn1_Aug_22	Avg.	Max	Min	VCI	NDWI Status	
0221	Vizianagaram	Vizianagaram	0.59	0.59	0.66	0.54	41.1	Moderate	0.49	0.47	0.52	0.37	78.4	Normal	Moderate
0222	Vizianagaram	Gantiyada	0.62	0.56	0.64	0.37	90.3	Normal	0.54	0.45	0.53	0.34	108.6	Normal	Normal
0223	Vizianagaram	Srungavarapukota	0.66	0.60	0.66	0.49	100.0	Normal	0.58	0.52	0.56	0.41	114.3	Normal	Normal
0224	Vizianagaram	Jami	0.62	0.58	0.67	0.38	80.6	Normal	0.52	0.48	0.56	0.37	76.0	Normal	Normal
0225	Vizianagaram	Kothavalasa	0.72	0.61	0.72	0.27	100.0	Normal	0.59	0.48	0.55	0.25	114.4	Normal	Normal
0226	Vizianagaram	Lakkavarapukota	0.61	0.55	0.66	0.30	88.1	Normal	0.52	0.44	0.53	0.26	97.0	Normal	Normal
0227	Vizianagaram	Vepada	0.62	0.59	0.66	0.45	79.5	Normal	0.56	0.48	0.54	0.36	110.7	Normal	Normal
0301	Manyam	Komarada	0.59	0.53	0.65	0.31	83.0	Normal	0.53	0.47	0.57	0.32	84.3	Normal	Normal
0302	Manyam	Gummalakshampuram	0.55	0.49	0.64	0.37	66.0	Normal	0.50	0.41	0.51	0.34	90.5	Normal	Normal
0303	Manyam	Kurupam	0.64	0.61	0.70	0.50	67.5	Normal	0.54	0.52	0.60	0.46	61.5	Normal	Normal
0304	Manyam	Bhamini	0.66	0.51	0.66	0.43	100.0	Normal	0.58	0.47	0.53	0.43	155.0	Normal	Normal
0305	Manyam	Seethampeta	0.56	0.65	0.72	0.51	25.1	Severe	0.50	0.56	0.61	0.45	27.7	Severe	Severe
0306	Manyam	Palakonda	0.43	0.49	0.56	0.35	41.0	Moderate	0.44	0.52	0.61	0.40	16.1	Severe	Severe
0307	Manyam	Veeraghattam	0.46	0.48	0.55	0.30	66.5	Normal	0.46	0.50	0.56	0.31	60.4	Normal	Normal
0308	Manyam	Jiyymavalasa	0.58	0.55	0.62	0.44	77.3	Normal	0.49	0.53	0.62	0.44	27.0	Severe	Severe
0309	Manyam	Garugubilli	0.46	0.49	0.53	0.37	56.5	Moderate	0.48	0.53	0.59	0.39	42.9	Moderate	Moderate
0310	Manyam	Balijipeta	0.52	0.53	0.60	0.31	73.2	Normal	0.49	0.49	0.57	0.31	69.5	Normal	Normal
0311	Manyam	Seethanagaram	0.53	0.57	0.63	0.37	61.4	Normal	0.47	0.53	0.61	0.36	44.7	Moderate	Moderate
0312	Manyam	Parvathipuram	0.58	0.53	0.62	0.40	81.4	Normal	0.54	0.49	0.55	0.38	89.9	Normal	Normal
0313	Manyam	Makkuva	0.64	0.57	0.64	0.46	96.7	Normal	0.52	0.49	0.56	0.41	75.2	Normal	Normal
0314	Manyam	Salur	0.57	0.53	0.67	0.43	58.6	Moderate	0.48	0.43	0.55	0.36	62.5	Normal	Moderate
0315	Manyam	Pachipenta	0.69	0.55	0.69	0.25	100.0	Normal	0.57	0.43	0.55	0.20	105.7	Normal	Normal
0401	Alluri Sitharama Raju	Munchingi Puttu	0.48	0.20	0.48	0.01	100.0	Normal	0.42	0.17	0.35	0.01	121.8	Normal	Normal
0402	Alluri Sitharama Raju	Peda Bayalu	0.50	0.21	0.52	0.01	95.9	Normal	0.41	0.18	0.42	0.01	99.0	Normal	Normal
0403	Alluri Sitharama Raju	Dumbriguda	0.36	0.25	0.48	0.05	71.5	Normal	0.34	0.21	0.39	0.05	84.6	Normal	Normal
0404	Alluri Sitharama Raju	Araku Valley	0.40	0.38	0.51	0.12	72.0	Normal	0.38	0.30	0.37	0.11	101.1	Normal	Normal
0405	Alluri Sitharama Raju	Ananthagiri	0.64	0.56	0.73	0.43	69.8	Normal	0.55	0.46	0.56	0.35	92.9	Normal	Normal
0406	Alluri Sitharama Raju	Hukumpeta	0.48	0.35	0.58	0.20	73.1	Normal	0.44	0.29	0.45	0.16	96.8	Normal	Normal
0407	Alluri Sitharama Raju	Paderu	0.60	0.43	0.60	0.20	99.3	Normal	0.52	0.36	0.48	0.17	111.5	Normal	Normal
0408	Alluri Sitharama Raju	G.Madugula	0.57	0.32	0.57	0.16	100.0	Normal	0.48	0.27	0.42	0.13	119.2	Normal	Normal
0409	Alluri Sitharama Raju	Chintapalle	0.64	0.40	0.64	0.21	100.0	Normal	0.52	0.34	0.45	0.19	125.5	Normal	Normal
0410	Alluri Sitharama Raju	Gudem Kotha Veedhi	0.45	0.31	0.59	0.06	74.5	Normal	0.39	0.27	0.48	0.05	80.8	Normal	Normal
0411	Alluri Sitharama Raju	Koyyuru	0.69	0.49	0.71	0.25	93.9	Normal	0.58	0.42	0.57	0.23	103.3	Normal	Normal
0412	Alluri Sitharama Raju	Rajavommangi	0.67	0.53	0.69	0.33	95.3	Normal	0.56	0.44	0.56	0.27	100.7	Normal	Normal
0413	Alluri Sitharama Raju	Addateegala	0.67	0.56	0.72	0.33	87.8	Normal	0.57	0.47	0.58	0.28	97.3	Normal	Normal
0414	Alluri Sitharama Raju	Gangavaram	0.61	0.54	0.68	0.20	84.9	Normal	0.51	0.44	0.56	0.18	85.6	Normal	Normal
0415	Alluri Sitharama Raju	Rampachodavaram	0.58	0.56	0.73	0.13	74.2	Normal	0.51	0.47	0.59	0.12	81.9	Normal	Normal
0416	Alluri Sitharama Raju	Devipatnam	0.43	0.57	0.70	0.23	43.0	Moderate	0.41	0.50	0.57	0.23	51.7	Moderate	Moderate
0417	Alluri Sitharama Raju	Vararamachandrapuram	0.34	0.32	0.54	0.11	52.2	Moderate	0.29	0.30	0.44	0.19	37.8	Severe	Severe
0418	Alluri Sitharama Raju	Kunavaram	0.32	0.34	0.55	0.09	49.0	Moderate	0.28	0.32	0.42	0.13	50.9	Moderate	Moderate
0419	Alluri Sitharama Raju	Nellipaka	0.33	0.37	0.55	0.07	55.0	Moderate	0.26	0.30	0.41	0.06	57.4	Moderate	Moderate
0420	Alluri Sitharama Raju	Chintur	0.50	0.35	0.63	0.19	71.0	Normal	0.39	0.30	0.48	0.19	68.8	Normal	Normal
0421	Alluri Sitharama Raju	Maredumilli	0.61	0.40	0.74	0.18	77.0	Normal	0.52	0.35	0.62	0.16	77.0	Normal	Normal
0422	Alluri Sitharama Raju	Y.Ramavaram	0.73	0.41	0.73	0.19	100.0	Normal	0.59	0.35	0.53	0.17	117.4	Normal	Normal



dmcode	DISTRICT	MANDAL	NDVI						NDWI						Final Status
			fn1_Aug_22	Avg.	Max	Min	VCI	NDVI Status	fn1_Aug_22	Avg.	Max	Min	VCI	NDWI Status	
0501	Visakhapatnam	Padmanabham	0.66	0.60	0.66	0.44	100.0	Normal	0.54	0.47	0.54	0.36	101.2	Normal	Normal
0502	Visakhapatnam	Bheemunipatnam	0.58	0.56	0.61	0.47	77.4	Normal	0.48	0.44	0.50	0.32	88.1	Normal	Normal
0503	Visakhapatnam	Anandapuram	0.69	0.62	0.71	0.29	93.4	Normal	0.55	0.47	0.56	0.25	95.8	Normal	Normal
0504	Visakhapatnam	Pendurthi	0.65	0.61	0.69	0.21	92.5	Normal	0.53	0.48	0.57	0.20	89.4	Normal	Normal
0505	Visakhapatnam	Visakhapatnam (Rural)	0.63	0.58	0.67	0.26	88.2	Normal	0.53	0.47	0.55	0.24	93.5	Normal	Normal
0506	Visakhapatnam	Seethammadhara*	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
0507	Visakhapatnam	Maharanipeta*	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
0508	Visakhapatnam	Gopalapatnam*	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
0509	Visakhapatnam	Mulagada*	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
0510	Visakhapatnam	Gajuwaka	0.48	0.55	0.69	0.18	58.6	Moderate	0.46	0.45	0.55	0.17	76.3	Normal	Moderate
0511	Visakhapatnam	Pedagantyada	0.45	0.50	0.65	0.18	58.8	Moderate	0.44	0.44	0.53	0.18	74.9	Normal	Moderate
0601	Anakapalli	Devarapalle	0.69	0.62	0.70	0.26	97.2	Normal	0.58	0.52	0.58	0.26	98.5	Normal	Normal
0602	Anakapalli	K.Kotapadu	0.70	0.61	0.70	0.29	100.0	Normal	0.59	0.48	0.56	0.25	109.8	Normal	Normal
0603	Anakapalli	Sabbavaram	0.70	0.62	0.72	0.24	95.8	Normal	0.57	0.49	0.59	0.22	94.5	Normal	Normal
0604	Anakapalli	Paravada	0.57	0.56	0.66	0.20	79.9	Normal	0.48	0.45	0.53	0.18	84.4	Normal	Normal
0605	Anakapalli	Anakapalle	0.57	0.60	0.71	0.27	69.8	Normal	0.48	0.50	0.60	0.23	66.8	Normal	Normal
0606	Anakapalli	Chodavaram	0.69	0.63	0.71	0.36	92.7	Normal	0.56	0.52	0.60	0.32	85.9	Normal	Normal
0607	Anakapalli	Cheedikada	0.67	0.62	0.71	0.29	91.2	Normal	0.58	0.51	0.60	0.27	93.7	Normal	Normal
0608	Anakapalli	Madugula	0.70	0.61	0.70	0.34	99.7	Normal	0.59	0.52	0.59	0.35	101.2	Normal	Normal
0609	Anakapalli	Butchayyapeta	0.65	0.60	0.68	0.21	94.6	Normal	0.52	0.49	0.56	0.19	90.8	Normal	Normal
0610	Anakapalli	Kasimkota	0.59	0.59	0.68	0.32	74.9	Normal	0.48	0.49	0.58	0.28	66.1	Normal	Normal
0611	Anakapalli	Munagapaka	0.62	0.60	0.69	0.39	77.4	Normal	0.53	0.51	0.60	0.36	71.3	Normal	Normal
0612	Anakapalli	Atchutapuram	0.60	0.56	0.65	0.27	85.5	Normal	0.51	0.45	0.53	0.24	92.8	Normal	Normal
0613	Anakapalli	Rambilli	0.55	0.53	0.68	0.16	76.0	Normal	0.51	0.45	0.55	0.19	88.4	Normal	Normal
0614	Anakapalli	Yelamanchili	0.56	0.58	0.68	0.31	69.6	Normal	0.51	0.49	0.58	0.31	71.2	Normal	Normal
0615	Anakapalli	Makavarapalem	0.71	0.60	0.71	0.33	100.0	Normal	0.60	0.49	0.58	0.28	106.2	Normal	Normal
0616	Anakapalli	Ravikamatham	0.71	0.62	0.71	0.38	100.0	Normal	0.59	0.51	0.57	0.32	108.2	Normal	Normal
0617	Anakapalli	Rolugunta	0.72	0.63	0.72	0.44	100.0	Normal	0.63	0.52	0.58	0.36	120.7	Normal	Normal
0618	Anakapalli	Narsipatnam	0.68	0.63	0.75	0.43	79.1	Normal	0.59	0.52	0.58	0.38	101.5	Normal	Normal
0619	Anakapalli	Golugonda	0.70	0.61	0.75	0.37	87.9	Normal	0.60	0.51	0.60	0.34	100.4	Normal	Normal
0620	Anakapalli	Nathavaram	0.63	0.59	0.68	0.37	84.8	Normal	0.57	0.51	0.58	0.35	97.9	Normal	Normal
0621	Anakapalli	Kotauratla	0.72	0.65	0.73	0.51	96.4	Normal	0.63	0.53	0.58	0.40	124.9	Normal	Normal
0622	Anakapalli	S.Rayavaram	0.51	0.59	0.68	0.42	34.9	Severe	0.49	0.51	0.56	0.36	62.1	Normal	Severe
0623	Anakapalli	Nakkapalle	0.55	0.57	0.67	0.38	60.6	Normal	0.53	0.48	0.58	0.34	81.0	Normal	Normal
0624	Anakapalli	Payakaraopeta	0.52	0.60	0.74	0.39	37.6	Severe	0.50	0.51	0.60	0.36	58.9	Moderate	Severe
0701	Kakinada	Kotananduru	0.58	0.54	0.63	0.22	88.4	Normal	0.56	0.47	0.55	0.22	101.5	Normal	Normal
0702	Kakinada	Tuni	0.64	0.62	0.75	0.43	66.3	Normal	0.57	0.50	0.59	0.38	90.0	Normal	Normal
0703	Kakinada	Rowthulapudi	0.69	0.63	0.73	0.51	81.5	Normal	0.59	0.53	0.63	0.43	80.5	Normal	Normal
0704	Kakinada	Sankhavaram	0.59	0.63	0.76	0.32	60.8	Normal	0.51	0.53	0.64	0.30	59.6	Moderate	Moderate
0705	Kakinada	Thondangi	0.42	0.51	0.72	0.16	46.9	Moderate	0.42	0.45	0.54	0.15	68.1	Normal	Moderate
0706	Kakinada	Kothapalle	0.31	0.38	0.57	0.13	41.1	Moderate	0.37	0.42	0.51	0.18	56.9	Moderate	Moderate
0707	Kakinada	Gollaprolu	0.37	0.46	0.57	0.21	45.9	Moderate	0.35	0.41	0.48	0.19	54.9	Moderate	Moderate
0708	Kakinada	Prathipadu	0.54	0.55	0.66	0.22	72.0	Normal	0.46	0.49	0.57	0.22	69.7	Normal	Normal
0709	Kakinada	Yeleswaram	0.44	0.52	0.72	0.21	44.9	Moderate	0.43	0.49	0.60	0.22	55.6	Moderate	Moderate
0710	Kakinada	Jaggampeta	0.47	0.51	0.63	0.25	58.1	Moderate	0.44	0.45	0.54	0.25	66.1	Normal	Moderate
0711	Kakinada	Gandepalle	0.58	0.52	0.68	0.25	76.5	Normal	0.53	0.47	0.55	0.23	92.0	Normal	Normal
0712	Kakinada	Peddapuram	0.54	0.48	0.65	0.29	69.9	Normal	0.45	0.41	0.53	0.25	70.2	Normal	Normal
0713	Kakinada	Kirlampudi	0.41	0.51	0.71	0.36	12.1	Severe	0.42	0.50	0.61	0.39	14.2	Severe	Severe
0714	Kakinada	Pithapuram	0.39	0.42	0.62	0.28	34.1	Severe	0.43	0.46	0.57	0.32	44.2	Moderate	Severe
0715	Kakinada	Samalkota	0.41	0.36	0.56	0.20	59.7	Moderate	0.48	0.42	0.58	0.27	68.3	Normal	Moderate
0716	Kakinada	Kakinada (Rural)	0.46	0.37	0.47	0.22	95.6	Normal	0.44	0.39	0.50	0.29	68.8	Normal	Normal
0717	Kakinada	Kakinada (Urban)	0.52	0.37	0.52	0.20	100.0	Normal	0.49	0.39	0.49	0.31	97.8	Normal	Normal
0718	Kakinada	Pedapudi	0.47	0.41	0.61	0.20	64.7	Normal	0.56	0.48	0.62	0.28	82.1	Normal	Normal
0719	Kakinada	Karapa	0.42	0.37	0.51	0.23	67.7	Normal	0.49	0.49	0.58	0.41	45.7	Moderate	Moderate



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			fn1_Aug_22	Avg.	Max	Min	VCI	NDVI Status	fn1_Aug_22	Avg.	Max	Min	VCI	NDWI Status	
0720	Kakinada	Kajuluru	0.38	0.38	0.52	0.25	46.1	Moderate	0.48	0.53	0.60	0.47	1.6	Severe	Severe
0721	Kakinada	Thallarevu	0.40	0.38	0.49	0.25	62.3	Normal	0.53	0.52	0.58	0.43	65.4	Normal	Normal
0801	Kona Seema	Atreyapuram	0.21	0.34	0.51	0.21	0.0	Severe	0.32	0.44	0.54	0.35	-15.8	Severe	Severe
0802	Kona Seema	Alamuru	0.24	0.43	0.63	0.24	0.0	Severe	0.32	0.48	0.56	0.40	-53.0	Severe	Severe
0803	Kona Seema	Mandapeta	0.51	0.50	0.66	0.37	47.1	Moderate	0.50	0.51	0.56	0.46	39.3	Severe	Severe
0804	Kona Seema	Rayavaram	0.36	0.47	0.70	0.34	7.4	Severe	0.40	0.53	0.63	0.42	-6.2	Severe	Severe
0805	Kona Seema	Ramachandrapuram	0.33	0.43	0.62	0.26	21.4	Severe	0.41	0.52	0.61	0.33	27.1	Severe	Severe
0806	Kona Seema	Pamaruru	0.42	0.42	0.57	0.25	54.3	Moderate	0.55	0.55	0.64	0.43	56.7	Moderate	Moderate
0807	Kona Seema	Kapileswarapuram	0.18	0.42	0.59	0.18	0.0	Severe	0.28	0.55	0.62	0.46	-108.0	Severe	Severe
0808	Kona Seema	Ravulapalem	0.36	0.47	0.56	0.36	0.0	Severe	0.40	0.51	0.58	0.44	-34.3	Severe	Severe
0809	Kona Seema	Kothapeta	0.59	0.52	0.63	0.35	84.0	Normal	0.61	0.58	0.64	0.48	83.2	Normal	Normal
0810	Kona Seema	Ainavilli	0.59	0.51	0.62	0.34	86.7	Normal	0.63	0.61	0.67	0.52	75.0	Normal	Normal
0811	Kona Seema	Mummidivaram	0.58	0.51	0.63	0.34	84.0	Normal	0.63	0.61	0.67	0.56	63.6	Normal	Normal
0812	Kona Seema	I. Polavaram	0.48	0.42	0.55	0.26	77.9	Normal	0.55	0.57	0.69	0.43	46.0	Moderate	Moderate
0813	Kona Seema	Katrenikona	0.46	0.40	0.53	0.27	73.1	Normal	0.58	0.55	0.65	0.49	61.0	Normal	Normal
0814	Kona Seema	Uppalaguptam	0.41	0.49	0.58	0.40	5.5	Severe	0.46	0.59	0.65	0.56	-115.1	Severe	Severe
0815	Kona Seema	Amalapuram	0.53	0.55	0.66	0.46	35.6	Severe	0.51	0.60	0.66	0.54	-29.5	Severe	Severe
0816	Kona Seema	Ambajipeta	0.70	0.58	0.70	0.44	100.0	Normal	0.69	0.64	0.72	0.51	85.4	Normal	Normal
0817	Kona Seema	P.Gannavaram	0.34	0.45	0.56	0.30	13.8	Severe	0.46	0.58	0.67	0.48	-8.7	Severe	Severe
0818	Kona Seema	Sakhinetipalle	0.37	0.48	0.61	0.37	0.0	Severe	0.50	0.59	0.65	0.51	-12.9	Severe	Severe
0819	Kona Seema	Malikipuram	0.48	0.51	0.69	0.42	19.7	Severe	0.52	0.54	0.67	0.53	-7.1	Severe	Severe
0820	Kona Seema	Razole	0.45	0.49	0.65	0.45	2.0	Severe	0.48	0.57	0.67	0.52	-23.5	Severe	Severe
0821	Kona Seema	Mamidikuduru	0.39	0.48	0.66	0.39	0.0	Severe	0.47	0.58	0.68	0.51	-23.4	Severe	Severe
0822	Kona Seema	Allavaram	0.35	0.46	0.60	0.35	0.0	Severe	0.46	0.58	0.63	0.52	-52.2	Severe	Severe
0901	East Godavari	Gokavaram	0.45	0.48	0.61	0.17	65.0	Normal	0.46	0.44	0.53	0.17	79.8	Normal	Normal
0902	East Godavari	Korukonda	0.35	0.49	0.62	0.35	0.0	Severe	0.42	0.48	0.55	0.41	10.9	Severe	Severe
0903	East Godavari	Rajanagaram	0.55	0.56	0.70	0.39	50.0	Moderate	0.51	0.50	0.57	0.37	69.3	Normal	Moderate
0904	East Godavari	Rangampeta	0.52	0.50	0.67	0.35	52.4	Moderate	0.48	0.42	0.50	0.31	89.1	Normal	Moderate
0905	East Godavari	Biccavolu	0.51	0.48	0.68	0.31	55.0	Moderate	0.52	0.49	0.58	0.40	65.4	Normal	Moderate
0906	East Godavari	Anaparthi	0.60	0.50	0.68	0.38	71.0	Normal	0.51	0.51	0.58	0.48	38.2	Severe	Severe
0907	East Godavari	Kadiam	0.50	0.45	0.61	0.25	68.5	Normal	0.49	0.44	0.51	0.33	86.4	Normal	Normal
0908	East Godavari	Rajahmundry (R)	0.31	0.40	0.56	0.06	50.6	Moderate	0.35	0.42	0.50	0.08	63.4	Normal	Moderate
0909	East Godavari	Rajahmundry (U)	0.30	0.34	0.50	0.00	60.0	Moderate	0.34	0.30	0.44	0.00	76.6	Normal	Moderate
0910	East Godavari	Seethanagaram	0.21	0.57	0.63	0.21	0.0	Severe	0.29	0.53	0.61	0.36	-27.3	Severe	Severe
0911	East Godavari	Tallapudi	0.34	0.49	0.64	0.33	3.0	Severe	0.38	0.47	0.52	0.37	3.4	Severe	Severe
0912	East Godavari	Gopalapuram	0.39	0.51	0.62	0.32	21.7	Severe	0.38	0.44	0.52	0.31	32.1	Severe	Severe
0913	East Godavari	Devarapalle	0.37	0.62	0.70	0.26	24.4	Severe	0.34	0.52	0.58	0.26	25.2	Severe	Severe
0914	East Godavari	Nallajerla	0.57	0.54	0.67	0.27	74.6	Normal	0.48	0.48	0.59	0.26	67.4	Normal	Normal
0915	East Godavari	Kovvur	0.35	0.49	0.66	0.18	34.5	Severe	0.34	0.47	0.55	0.17	43.4	Moderate	Severe
0916	East Godavari	Chagallu	0.43	0.54	0.74	0.09	51.5	Moderate	0.40	0.50	0.60	0.09	61.4	Normal	Moderate
0917	East Godavari	Nidadavole	0.41	0.49	0.68	0.32	24.7	Severe	0.43	0.49	0.56	0.41	16.2	Severe	Severe
0918	East Godavari	Undrajavaram	0.45	0.46	0.64	0.36	33.9	Severe	0.47	0.49	0.58	0.44	19.4	Severe	Severe
0919	East Godavari	Peravali	0.37	0.48	0.60	0.34	13.2	Severe	0.42	0.53	0.59	0.42	1.2	Severe	Severe
1001	West Godavari	Tadepalligudem	0.60	0.52	0.66	0.35	82.0	Normal	0.56	0.52	0.60	0.43	78.8	Normal	Normal
1002	West Godavari	Pentapadu	0.38	0.39	0.56	0.28	35.1	Severe	0.48	0.57	0.64	0.53	-42.3	Severe	Severe
1003	West Godavari	Tanuku	0.45	0.43	0.56	0.35	50.0	Moderate	0.53	0.53	0.59	0.43	63.4	Normal	Moderate
1004	West Godavari	Attili	0.35	0.37	0.46	0.31	24.0	Severe	0.46	0.57	0.65	0.45	3.1	Severe	Severe
1005	West Godavari	Iragavaram	0.29	0.40	0.51	0.29	0.0	Severe	0.51	0.58	0.64	0.53	-22.2	Severe	Severe
1006	West Godavari	Penugonda	0.41	0.42	0.59	0.27	42.9	Moderate	0.48	0.58	0.63	0.45	14.4	Severe	Severe
1007	West Godavari	Penumantra	0.38	0.40	0.60	0.30	25.5	Severe	0.47	0.59	0.66	0.53	-39.7	Severe	Severe
1008	West Godavari	Veeravasaram	0.35	0.40	0.50	0.29	31.4	Severe	0.49	0.57	0.65	0.44	24.4	Severe	Severe
1009	West Godavari	Palacoderu	0.43	0.38	0.44	0.18	95.7	Normal	0.51	0.55	0.63	0.34	56.2	Moderate	Moderate
1010	West Godavari	Undi	0.38	0.35	0.44	0.25	69.5	Normal	0.41	0.55	0.67	0.40	3.3	Severe	Severe
1011	West Godavari	Akividu	0.36	0.40	0.51	0.25	41.6	Moderate	0.39	0.54	0.66	0.34	15.6	Severe	Severe
1012	West Godavari	Kalla	0.37	0.38	0.48	0.17	65.1	Normal	0.43	0.54	0.63	0.28	41.1	Moderate	Moderate







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1221	Krishna	Nagayalanka	0.09	0.29	0.52	0.09	0.0	Severe	0.18	0.36	0.46	0.19	-1.4	Severe	Severe
1222	Krishna	Avanigadda	0.24	0.46	0.64	0.23	2.2	Severe	0.28	0.42	0.54	0.29	-1.9	Severe	Severe
1223	Krishna	Mopidevi	0.25	0.46	0.59	0.22	8.9	Severe	0.31	0.41	0.50	0.25	23.2	Severe	Severe
1224	Krishna	Challapalle	0.37	0.46	0.59	0.33	14.3	Severe	0.41	0.39	0.49	0.28	60.3	Normal	Severe
1225	Krishna	Ghantasala	0.28	0.42	0.56	0.28	0.0	Severe	0.43	0.42	0.54	0.25	62.4	Normal	Severe
1301	NTR	Gampalagudem	0.41	0.48	0.56	0.41	1.9	Severe	0.31	0.36	0.48	0.25	26.2	Severe	Severe
1302	NTR	Tiruvuru	0.49	0.47	0.58	0.42	42.4	Moderate	0.54	0.45	0.56	0.37	87.2	Normal	Moderate
1303	NTR	Vissannapet	0.61	0.52	0.61	0.41	100.0	Normal	0.54	0.47	0.53	0.42	110.1	Normal	Normal
1304	NTR	A.Konduru	0.53	0.51	0.61	0.43	56.4	Moderate	0.44	0.42	0.47	0.35	72.5	Normal	Moderate
1305	NTR	Reddigudem	0.52	0.48	0.58	0.27	79.5	Normal	0.46	0.44	0.52	0.25	78.1	Normal	Normal
1306	NTR	Mylavaram	0.50	0.51	0.61	0.35	57.3	Moderate	0.38	0.43	0.48	0.35	26.6	Severe	Severe
1307	NTR	G.Konduru	0.53	0.50	0.59	0.21	84.0	Normal	0.44	0.42	0.49	0.21	81.9	Normal	Normal
1308	NTR	Veerullapadu	0.57	0.62	0.73	0.49	32.2	Severe	0.45	0.50	0.61	0.38	27.2	Severe	Severe
1309	NTR	Nandigama	0.62	0.63	0.71	0.56	40.0	Moderate	0.50	0.49	0.58	0.41	54.4	Moderate	Moderate
1310	NTR	Penuganchiprolu	0.62	0.58	0.65	0.51	76.7	Normal	0.53	0.45	0.53	0.39	100.7	Normal	Normal
1311	NTR	Vatsavai	0.54	0.51	0.57	0.44	71.9	Normal	0.41	0.32	0.45	0.27	76.2	Normal	Normal
1312	NTR	Jaggayyapeta	0.53	0.52	0.59	0.46	52.3	Moderate	0.44	0.35	0.49	0.27	77.2	Normal	Moderate
1313	NTR	Chandralapadu	0.57	0.55	0.67	0.46	50.9	Moderate	0.45	0.42	0.52	0.31	69.0	Normal	Moderate
1314	NTR	Kanchikacherla	0.58	0.53	0.67	0.41	67.6	Normal	0.52	0.41	0.55	0.31	85.3	Normal	Normal
1315	NTR	Ibrahimpattanam	0.51	0.48	0.60	0.35	63.6	Normal	0.45	0.43	0.50	0.34	67.1	Normal	Normal
1316	NTR	Vijayawada (Rural)	0.50	0.46	0.55	0.33	75.0	Normal	0.52	0.48	0.54	0.36	90.0	Normal	Normal
1317	NTR	Vijayawada North*	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
1318	NTR	Vijayawada East*	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
1319	NTR	Vijayawada Central*	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
1320	NTR	Vijayawada West*	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
1401	Guntur	Thullur	0.58	0.44	0.59	0.33	92.7	Normal	0.49	0.36	0.54	0.21	83.7	Normal	Normal
1402	Guntur	Tadepalle	0.43	0.47	0.58	0.37	27.8	Severe	0.35	0.41	0.46	0.37	-27.2	Severe	Severe
1403	Guntur	Mangalagiri	0.40	0.47	0.61	0.37	12.9	Severe	0.34	0.38	0.49	0.27	29.0	Severe	Severe
1404	Guntur	Tadikonda	0.36	0.36	0.47	0.29	37.2	Severe	0.20	0.21	0.36	0.11	38.6	Severe	Severe
1405	Guntur	Medikonduru	0.36	0.40	0.48	0.35	13.2	Severe	0.27	0.21	0.33	0.12	72.6	Normal	Severe
1406	Guntur	Phirangipuram	0.27	0.43	0.50	0.27	0.0	Severe	0.18	0.25	0.34	0.12	28.8	Severe	Severe
1407	Guntur	Guntur Rural	0.40	0.43	0.54	0.36	20.3	Severe	0.26	0.28	0.39	0.16	43.5	Moderate	Severe
1408	Guntur	Guntur Urban*	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
1409	Guntur	Pedakakani	0.30	0.38	0.45	0.27	16.6	Severe	0.24	0.23	0.37	0.13	45.2	Moderate	Severe
1410	Guntur	Duggirala	0.30	0.36	0.44	0.30	0.0	Severe	0.17	0.28	0.40	0.19	-7.8	Severe	Severe
1411	Guntur	Kollipara	0.19	0.33	0.42	0.19	0.0	Severe	0.15	0.27	0.45	0.17	-7.5	Severe	Severe
1412	Guntur	Tenali	0.33	0.36	0.42	0.23	52.1	Moderate	0.23	0.29	0.39	0.22	10.3	Severe	Severe
1413	Guntur	Chebrolu	0.33	0.36	0.43	0.30	21.7	Severe	0.33	0.24	0.39	0.14	77.5	Normal	Severe
1414	Guntur	Vatticherukuru	0.26	0.31	0.43	0.26	0.0	Severe	0.23	0.15	0.30	0.05	73.3	Normal	Severe
1415	Guntur	Prathipadu	0.16	0.55	0.66	0.16	0.0	Severe	0.10	0.49	0.57	0.22	-35.7	Severe	Severe
1416	Guntur	Pedanandipadu	0.16	0.27	0.32	0.16	0.0	Severe	0.12	0.08	0.17	0.01	72.6	Normal	Severe
1417	Guntur	Kakumanu	0.17	0.28	0.35	0.17	0.0	Severe	0.16	0.13	0.24	0.03	61.4	Normal	Severe
1418	Guntur	Ponnur	0.19	0.37	0.50	0.19	0.0	Severe	0.22	0.28	0.38	0.17	22.3	Severe	Severe
1501	Bapatla	Tsundur	0.34	0.37	0.47	0.31	16.7	Severe	0.37	0.28	0.36	0.17	101.0	Normal	Severe
1502	Bapatla	Amruthalur	0.30	0.32	0.43	0.24	31.8	Severe	0.36	0.23	0.34	0.12	109.2	Normal	Severe
1503	Bapatla	Vemuru	0.32	0.35	0.42	0.28	23.0	Severe	0.25	0.26	0.34	0.16	50.8	Moderate	Severe
1504	Bapatla	Kollur	0.39	0.41	0.47	0.38	9.5	Severe	0.32	0.35	0.43	0.27	32.1	Severe	Severe
1505	Bapatla	Bhattiprolu	0.33	0.42	0.57	0.29	16.0	Severe	0.33	0.32	0.41	0.25	50.0	Moderate	Severe
1506	Bapatla	Repalle	0.17	0.34	0.44	0.17	0.0	Severe	0.26	0.32	0.44	0.21	20.4	Severe	Severe
1507	Bapatla	Nizampatnam	0.32	0.34	0.47	0.19	46.8	Moderate	0.47	0.28	0.41	0.18	127.2	Normal	Moderate
1508	Bapatla	Nagaram	0.30	0.37	0.50	0.22	30.0	Severe	0.36	0.24	0.40	0.11	87.1	Normal	Severe
1509	Bapatla	Cherukupalle	0.32	0.36	0.48	0.15	53.4	Moderate	0.30	0.20	0.37	0.08	74.1	Normal	Moderate
1510	Bapatla	Pittalavanipalem	0.30	0.37	0.45	0.30	0.0	Severe	0.29	0.22	0.30	0.13	94.3	Normal	Severe
1511	Bapatla	Karlalalem	0.34	0.32	0.39	0.22	74.0	Normal	0.32	0.17	0.19	0.09	231.0	Normal	Normal



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1512	Bapatla	Bapatla	0.27	0.33	0.44	0.27	1.2	Severe	0.23	0.18	0.27	0.09	81.1	Normal	Severe
1513	Bapatla	Chirala	0.36	0.34	0.43	0.24	63.7	Normal	0.24	0.18	0.30	0.07	75.3	Normal	Normal
1514	Bapatla	Karamchedu	0.27	0.27	0.31	0.21	55.6	Moderate	0.19	0.08	0.17	0.02	114.1	Normal	Moderate
1515	Bapatla	Parchur	0.25	0.26	0.31	0.23	25.3	Severe	0.23	0.06	0.12	0.01	200.0	Normal	Severe
1516	Bapatla	Yeddanapudi	0.24	0.28	0.36	0.24	0.0	Severe	0.20	0.08	0.16	0.04	129.3	Normal	Severe
1517	Bapatla	Martur	0.40	0.42	0.48	0.34	38.1	Severe	0.30	0.23	0.33	0.16	85.5	Normal	Severe
1518	Bapatla	Ballikurava	0.52	0.47	0.54	0.39	90.3	Normal	0.42	0.30	0.38	0.23	122.6	Normal	Normal
1519	Bapatla	Santhamaguluru	0.53	0.44	0.56	0.36	85.3	Normal	0.41	0.25	0.36	0.16	126.3	Normal	Normal
1520	Bapatla	Addanki	0.46	0.47	0.55	0.36	51.5	Moderate	0.38	0.28	0.38	0.17	102.9	Normal	Moderate
1521	Bapatla	Korisapadu	0.35	0.37	0.48	0.28	31.6	Severe	0.23	0.14	0.22	0.05	108.8	Normal	Severe
1522	Bapatla	Janakavarampanguluru	0.37	0.45	0.55	0.35	11.9	Severe	0.28	0.24	0.33	0.12	74.4	Normal	Severe
1523	Bapatla	Inkollu	0.29	0.27	0.32	0.22	70.7	Normal	0.17	0.07	0.18	0.01	93.0	Normal	Normal
1524	Bapatla	Chinaganjam	0.35	0.30	0.39	0.22	79.8	Normal	0.33	0.16	0.43	0.04	75.5	Normal	Normal
1525	Bapatla	Vetapalem	0.33	0.34	0.43	0.24	46.4	Moderate	0.20	0.16	0.41	0.03	46.2	Moderate	Moderate
1601	Palnadu	Atchampet	0.44	0.40	0.47	0.32	78.9	Normal	0.28	0.23	0.36	0.10	70.4	Normal	Normal
1602	Palnadu	Amaravathi	0.33	0.38	0.50	0.27	28.8	Severe	0.22	0.24	0.38	0.16	26.7	Severe	Severe
1603	Palnadu	Pedakurapadu	0.39	0.38	0.45	0.34	45.2	Moderate	0.22	0.19	0.35	0.11	48.8	Moderate	Moderate
1604	Palnadu	Krosuru	0.44	0.42	0.51	0.34	58.3	Moderate	0.23	0.22	0.39	0.10	46.6	Moderate	Moderate
1605	Palnadu	Bellamkonda	0.33	0.46	0.53	0.33	0.0	Severe	0.23	0.30	0.42	0.19	15.5	Severe	Severe
1606	Palnadu	Machavaram	0.36	0.39	0.47	0.30	34.5	Severe	0.22	0.21	0.35	0.10	48.6	Moderate	Severe
1607	Palnadu	Piduguralla	0.44	0.44	0.52	0.35	52.1	Moderate	0.30	0.27	0.38	0.15	65.8	Normal	Moderate
1608	Palnadu	Rajupalem	0.47	0.45	0.54	0.36	59.0	Moderate	0.34	0.26	0.44	0.11	69.5	Normal	Moderate
1609	Palnadu	Sattenapalle	0.44	0.41	0.51	0.34	58.5	Moderate	0.32	0.22	0.35	0.16	83.8	Normal	Moderate
1610	Palnadu	Muppalla	0.39	0.46	0.54	0.38	0.6	Severe	0.32	0.28	0.39	0.15	68.0	Normal	Severe
1611	Palnadu	Nekarikallu	0.55	0.47	0.58	0.36	86.8	Normal	0.45	0.30	0.42	0.12	109.0	Normal	Normal
1612	Palnadu	Ipur	0.48	0.41	0.51	0.32	88.2	Normal	0.31	0.22	0.35	0.09	83.7	Normal	Normal
1613	Palnadu	Karempudi	0.51	0.46	0.59	0.36	62.9	Normal	0.38	0.28	0.43	0.15	79.6	Normal	Normal
1614	Palnadu	Dachepalle	0.45	0.40	0.50	0.30	77.2	Normal	0.30	0.21	0.36	0.09	78.8	Normal	Normal
1615	Palnadu	Gurazala	0.47	0.41	0.54	0.31	71.0	Normal	0.28	0.22	0.38	0.09	64.6	Normal	Normal
1616	Palnadu	Rentachintala	0.46	0.40	0.55	0.31	59.9	Moderate	0.31	0.22	0.42	0.05	69.9	Normal	Moderate
1617	Palnadu	Macherla	0.49	0.38	0.54	0.29	80.3	Normal	0.34	0.16	0.34	0.05	99.0	Normal	Normal
1618	Palnadu	Veldurthi	0.44	0.32	0.45	0.26	92.7	Normal	0.28	0.11	0.21	0.03	134.0	Normal	Normal
1619	Palnadu	Durgi	0.56	0.41	0.56	0.29	100.0	Normal	0.48	0.23	0.39	0.06	127.6	Normal	Normal
1620	Palnadu	Bollapalle	0.45	0.37	0.48	0.25	85.8	Normal	0.29	0.21	0.33	0.06	83.7	Normal	Normal
1621	Palnadu	Vinukonda	0.44	0.41	0.49	0.28	75.7	Normal	0.29	0.21	0.35	0.09	77.9	Normal	Normal
1622	Palnadu	Nuzendla	0.41	0.42	0.53	0.33	40.6	Moderate	0.30	0.19	0.33	0.08	88.7	Normal	Moderate
1623	Palnadu	Savalyapuram	0.53	0.44	0.56	0.33	87.9	Normal	0.37	0.23	0.34	0.14	111.2	Normal	Normal
1624	Palnadu	Rompicherla	0.60	0.47	0.62	0.34	92.7	Normal	0.50	0.28	0.44	0.13	117.7	Normal	Normal
1625	Palnadu	Narasaraopet	0.55	0.47	0.61	0.36	77.6	Normal	0.45	0.28	0.41	0.20	123.9	Normal	Normal
1626	Palnadu	Nadendla	0.45	0.43	0.55	0.35	47.7	Moderate	0.32	0.23	0.35	0.12	88.5	Normal	Moderate
1627	Palnadu	Edlapadu	0.28	0.38	0.49	0.28	0.0	Severe	0.19	0.20	0.37	0.11	31.4	Severe	Severe
1628	Palnadu	Chilakaluri	0.53	0.39	0.53	0.35	100.0	Normal	0.41	0.20	0.32	0.15	154.1	Normal	Normal
1701	Prakasam	Yerragondapalem	0.27	0.33	0.43	0.25	10.6	Severe	0.10	0.15	0.25	0.04	28.8	Severe	Severe
1702	Prakasam	Pullalacheruvu	0.34	0.33	0.42	0.24	55.2	Moderate	0.21	0.17	0.23	0.06	86.8	Normal	Moderate
1703	Prakasam	Tripuranthakam	0.36	0.36	0.45	0.24	58.0	Moderate	0.24	0.18	0.29	0.04	81.9	Normal	Moderate
1704	Prakasam	Peda Araveedu	0.26	0.29	0.40	0.24	9.0	Severe	0.07	0.07	0.17	-0.01	43.0	Moderate	Severe
1705	Prakasam	Dornala	0.44	0.29	0.44	0.17	100.0	Normal	0.20	0.11	0.22	0.02	89.9	Normal	Normal
1706	Prakasam	Markapur	0.33	0.29	0.41	0.23	51.9	Moderate	0.16	0.09	0.20	0.01	76.7	Normal	Moderate
1707	Prakasam	Donakonda	0.27	0.29	0.37	0.20	38.5	Severe	0.11	0.04	0.12	-0.05	95.8	Normal	Severe
1708	Prakasam	Kurichedu	0.31	0.33	0.44	0.23	37.3	Severe	0.16	0.06	0.18	-0.03	91.3	Normal	Severe
1709	Prakasam	Darsi	0.32	0.38	0.44	0.29	18.5	Severe	0.19	0.13	0.22	0.01	85.4	Normal	Severe
1710	Prakasam	Mundlamuru	0.39	0.42	0.49	0.31	43.2	Moderate	0.32	0.19	0.30	0.06	107.0	Normal	Moderate
1711	Prakasam	Thallur	0.41	0.44	0.52	0.33	40.5	Moderate	0.31	0.25	0.35	0.11	83.4	Normal	Moderate
1712	Prakasam	Podili	0.26	0.30	0.41	0.25	6.9	Severe	0.11	0.05	0.12	-0.02	96.4	Normal	Severe
1713	Prakasam	Konakanamitla	0.30	0.32	0.41	0.25	30.0	Severe	0.16	0.06	0.12	-0.03	128.7	Normal	Severe





dmcode	DISTRICT	MANDAL	NDVI						NDWI						Final Status
			fn1_Aug_22	Avg.	Max	Min	VCI	NDVI Status	fn1_Aug_22	Avg.	Max	Min	VCI	NDWI Status	
2021	Nandyal	Allagadda	0.34	0.17	0.34	0.06	100.0	Normal	0.25	0.07	0.18	-0.02	135.6	Normal	Normal
2022	Nandyal	Dornipadu	0.29	0.16	0.34	0.00	87.1	Normal	0.21	0.04	0.10	-0.06	166.9	Normal	Normal
2023	Nandyal	Koilkuntla	0.23	0.17	0.29	0.01	77.7	Normal	0.15	0.03	0.11	-0.02	132.6	Normal	Normal
2024	Nandyal	Uyyalawada	0.20	0.17	0.29	0.03	65.7	Normal	0.10	0.02	0.08	-0.06	112.8	Normal	Normal
2025	Nandyal	Sanjamala	0.29	0.20	0.29	0.06	98.7	Normal	0.08	0.02	0.13	-0.06	74.7	Normal	Normal
2026	Nandyal	Kolimigundla	0.36	0.23	0.36	0.04	99.1	Normal	0.11	0.04	0.20	-0.07	66.5	Normal	Normal
2027	Nandyal	Owk	0.30	0.23	0.33	0.09	87.6	Normal	0.16	0.05	0.23	-0.05	74.9	Normal	Normal
2028	Nandyal	Peapally	0.38	0.27	0.41	0.05	94.2	Normal	0.24	0.11	0.25	0.00	95.3	Normal	Normal
2029	Nandyal	Dhone	0.42	0.27	0.43	0.10	97.5	Normal	0.22	0.10	0.22	0.02	98.1	Normal	Normal
2101	Anantapuramu	D.Hirehal	0.45	0.20	0.45	0.08	100.0	Normal	0.31	0.03	0.13	-0.02	223.1	Normal	Normal
2102	Anantapuramu	Bommanahal	0.44	0.23	0.44	0.17	100.0	Normal	0.37	0.05	0.16	0.01	240.5	Normal	Normal
2103	Anantapuramu	Vidapanakal	0.39	0.16	0.39	0.06	100.0	Normal	0.16	0.00	0.05	-0.04	235.7	Normal	Normal
2104	Anantapuramu	Vajrakarur	0.35	0.17	0.35	0.11	100.0	Normal	0.07	0.02	0.14	-0.01	54.0	Moderate	Moderate
2105	Anantapuramu	Guntakal	0.38	0.21	0.40	0.07	94.2	Normal	0.18	0.08	0.17	0.01	103.0	Normal	Normal
2106	Anantapuramu	Gooty	0.35	0.23	0.41	0.03	82.1	Normal	0.09	0.09	0.27	0.01	31.3	Severe	Severe
2107	Anantapuramu	Peddavadugur	0.39	0.17	0.39	0.04	100.0	Normal	0.11	0.06	0.22	0.00	50.5	Moderate	Moderate
2108	Anantapuramu	Yadiki	0.40	0.21	0.40	0.04	100.0	Normal	0.14	0.06	0.19	0.00	71.2	Normal	Normal
2109	Anantapuramu	Tadpatri	0.45	0.21	0.45	0.03	100.0	Normal	0.20	0.06	0.24	0.00	85.6	Normal	Normal
2110	Anantapuramu	Peddapappur	0.48	0.26	0.48	0.04	100.0	Normal	0.26	0.10	0.33	0.02	76.2	Normal	Normal
2111	Anantapuramu	Singanamala	0.44	0.23	0.46	0.04	95.9	Normal	0.21	0.09	0.37	0.01	54.5	Moderate	Moderate
2112	Anantapuramu	Pamidi	0.42	0.22	0.44	0.10	94.7	Normal	0.22	0.09	0.32	0.02	65.5	Normal	Normal
2113	Anantapuramu	Garladinne	0.46	0.21	0.46	0.06	100.0	Normal	0.23	0.08	0.30	0.01	76.0	Normal	Normal
2114	Anantapuramu	Kudair	0.45	0.23	0.45	0.10	100.0	Normal	0.23	0.09	0.31	0.00	73.0	Normal	Normal
2115	Anantapuramu	Uravakonda	0.41	0.18	0.41	0.10	100.0	Normal	0.21	0.03	0.16	-0.01	132.2	Normal	Normal
2116	Anantapuramu	Kanekal	0.42	0.19	0.42	0.10	100.0	Normal	0.33	0.03	0.12	-0.03	241.3	Normal	Normal
2117	Anantapuramu	Rayadurg	0.43	0.18	0.43	0.05	100.0	Normal	0.27	0.04	0.12	-0.05	188.1	Normal	Normal
2118	Anantapuramu	Gummagatta	0.32	0.18	0.32	0.05	100.0	Normal	0.18	0.04	0.13	-0.05	126.9	Normal	Normal
2119	Anantapuramu	Brahmasamudram	0.43	0.19	0.43	0.08	100.0	Normal	0.23	0.05	0.16	-0.05	136.8	Normal	Normal
2120	Anantapuramu	Settur	0.43	0.17	0.43	0.07	100.0	Normal	0.27	0.06	0.20	0.00	131.7	Normal	Normal
2121	Anantapuramu	Kundurpi	0.46	0.14	0.46	0.04	100.0	Normal	0.29	0.06	0.17	0.01	180.3	Normal	Normal
2122	Anantapuramu	Kambadur	0.45	0.18	0.45	0.06	100.0	Normal	0.32	0.07	0.23	0.00	138.9	Normal	Normal
2123	Anantapuramu	Kalyandurg	0.43	0.20	0.43	0.07	100.0	Normal	0.26	0.07	0.22	0.00	117.5	Normal	Normal
2124	Anantapuramu	Beluguppa	0.42	0.20	0.42	0.05	100.0	Normal	0.23	0.04	0.13	-0.01	172.1	Normal	Normal
2125	Anantapuramu	Atmakur	0.40	0.43	0.59	0.19	52.8	Moderate	0.23	0.22	0.38	0.12	42.5	Moderate	Moderate
2126	Anantapuramu	Raptadu	0.40	0.25	0.46	0.12	82.9	Normal	0.19	0.08	0.36	-0.01	54.6	Moderate	Moderate
2127	Anantapuramu	Anantapuramu	0.43	0.23	0.43	0.05	100.0	Normal	0.20	0.09	0.29	0.01	69.1	Normal	Normal
2128	Anantapuramu	Bukkaraya Samudram	0.48	0.26	0.48	0.04	99.5	Normal	0.26	0.12	0.38	0.02	66.0	Normal	Normal
2129	Anantapuramu	Narpala	0.51	0.27	0.51	0.06	99.6	Normal	0.27	0.13	0.40	0.04	64.7	Normal	Normal
2130	Anantapuramu	Putlur	0.45	0.26	0.45	0.05	100.0	Normal	0.16	0.06	0.28	-0.02	61.8	Normal	Normal
2131	Anantapuramu	Yellanur	0.44	0.23	0.44	0.07	100.0	Normal	0.18	0.07	0.27	-0.01	69.6	Normal	Normal
2201	Sri Satyasai	Tadimarri	0.46	0.25	0.46	0.03	100.0	Normal	0.26	0.11	0.33	0.02	78.6	Normal	Normal
2202	Sri Satyasai	Mudigubba	0.49	0.24	0.49	0.10	100.0	Normal	0.25	0.10	0.35	0.02	70.6	Normal	Normal
2203	Sri Satyasai	Bathalapalle	0.44	0.22	0.44	0.03	98.8	Normal	0.21	0.09	0.29	0.01	72.2	Normal	Normal
2204	Sri Satyasai	Dharmavaram	0.42	0.22	0.47	0.03	87.2	Normal	0.23	0.10	0.35	0.01	64.0	Normal	Normal
2205	Sri Satyasai	Kanaganapalle	0.45	0.23	0.46	0.06	97.5	Normal	0.28	0.06	0.31	-0.02	92.0	Normal	Normal
2206	Sri Satyasai	Ramagiri	0.43	0.19	0.43	0.05	100.0	Normal	0.28	0.06	0.26	-0.02	106.2	Normal	Normal
2207	Sri Satyasai	Chennekothapalle	0.48	0.21	0.48	0.06	99.8	Normal	0.29	0.10	0.31	0.00	95.4	Normal	Normal
2208	Sri Satyasai	Bukkapatnam	0.54	0.28	0.54	0.08	100.0	Normal	0.33	0.15	0.39	0.04	81.9	Normal	Normal
2209	Sri Satyasai	Nallamada	0.53	0.31	0.53	0.18	100.0	Normal	0.31	0.15	0.35	0.02	88.3	Normal	Normal
2210	Sri Satyasai	Kadiri	0.51	0.30	0.51	0.20	100.0	Normal	0.30	0.13	0.35	0.03	85.6	Normal	Normal
2211	Sri Satyasai	Talupula	0.56	0.33	0.56	0.23	100.0	Normal	0.36	0.14	0.38	0.03	95.7	Normal	Normal
2212	Sri Satyasai	Nambulipulikunta	0.52	0.30	0.52	0.18	100.0	Normal	0.33	0.10	0.31	0.00	104.1	Normal	Normal
2213	Sri Satyasai	Gandlapenta	0.55	0.34	0.55	0.18	100.0	Normal	0.37	0.13	0.31	0.04	119.0	Normal	Normal
2214	Sri Satyasai	Nallacheruvu	0.48	0.27	0.48	0.16	100.0	Normal	0.27	0.10	0.27	0.02	98.8	Normal	Normal









dmcode	DISTRICT	MANDAL	NDVI						NDWI						Final Status
			fn1_Jul 22	Avg.	Max	Min	VCI	NDVI Status	fn1_Jul 22	Avg.	Max	Min	VCI	NDWI Status	
2615	Tirupati	Srikalahasti	0.51	0.36	0.52	0.20	96.3	Normal	0.30	0.18	0.30	0.06	100.0	Normal	Normal
2616	Tirupati	Yerpedu	0.55	0.44	0.59	0.32	85.1	Normal	0.38	0.28	0.41	0.11	91.7	Normal	Normal
2617	Tirupati	Renigunta	0.49	0.40	0.60	0.14	74.7	Normal	0.39	0.25	0.41	0.12	91.4	Normal	Normal
2618	Tirupati	Tirupati (Urban)	0.41	0.41	0.58	0.22	51.4	Moderate	0.33	0.27	0.40	0.18	68.2	Normal	Moderate
2619	Tirupati	Chinnagottigallu	0.54	0.43	0.60	0.31	79.9	Normal	0.39	0.24	0.40	0.12	97.5	Normal	Normal
2620	Tirupati	Yerravaripalem	0.40	0.42	0.51	0.24	59.9	Moderate	0.32	0.21	0.33	0.09	98.3	Normal	Moderate
2621	Tirupati	Pakala	0.62	0.45	0.63	0.18	98.4	Normal	0.46	0.28	0.46	0.12	100.0	Normal	Normal
2622	Tirupati	Chandragiri	0.54	0.47	0.62	0.37	68.5	Normal	0.42	0.30	0.47	0.18	84.0	Normal	Normal
2623	Tirupati	Ramachandrapuram	0.54	0.40	0.54	0.14	100.0	Normal	0.42	0.40	0.54	0.20	65.0	Normal	Normal
2624	Tirupati	Tirupati (Rural)	0.48	0.42	0.60	0.32	57.1	Moderate	0.39	0.27	0.40	0.14	97.4	Normal	Moderate
2625	Tirupati	Vadamalapeta	0.58	0.48	0.64	0.39	74.6	Normal	0.44	0.32	0.45	0.15	97.0	Normal	Normal
2626	Tirupati	Puttur	0.60	0.51	0.62	0.40	90.7	Normal	0.42	0.33	0.44	0.16	94.0	Normal	Normal
2627	Tirupati	Narayanavanam	0.59	0.50	0.60	0.41	96.3	Normal	0.40	0.30	0.49	0.18	70.9	Normal	Normal
2628	Tirupati	K.V.B.Puram	0.53	0.44	0.60	0.30	77.1	Normal	0.33	0.24	0.41	0.10	74.4	Normal	Normal
2629	Tirupati	Buchinaidu Kandriga	0.58	0.42	0.58	0.31	100.0	Normal	0.39	0.23	0.39	0.06	100.0	Normal	Normal
2630	Tirupati	Varadaiahpalem	0.52	0.41	0.53	0.28	94.7	Normal	0.37	0.21	0.37	0.03	100.0	Normal	Normal
2631	Tirupati	Tada	0.39	0.32	0.46	0.19	74.6	Normal	0.27	0.16	0.36	0.01	73.6	Normal	Normal
2632	Tirupati	Satyavedu	0.52	0.44	0.54	0.33	91.6	Normal	0.28	0.22	0.44	0.08	57.2	Moderate	Moderate
2633	Tirupati	Nagalapuram	0.60	0.51	0.66	0.40	77.1	Normal	0.42	0.32	0.52	0.17	72.5	Normal	Normal
2634	Tirupati	Pichatur	0.63	0.55	0.68	0.46	78.3	Normal	0.45	0.37	0.53	0.26	71.0	Normal	Normal

  
Sri. Sudheer Tiwari,  
(Asst. Project manager)

  
Sri. G. Prasada Rao,  
(Project Manager)

  
Dr. B. Sindar, IFS  
Vice-Chairman

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