



Product Catalogue

IT AGRI WEATHER SOLUTION PRIVATE LIMITED

IT Agri generates a number of products used for the services for the agricultural sector using weather information, weather forecast, crop weather sensitivity etc. for higher crop, livestock, poultry and fishery production. List of the products provided by IT Agri is mentioned below.

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www.websoftbd.net



www.itagri.org

1. CROP WEATHER CALENDAR






Crop Weather Calendar of Paddy																				
Aman Rice															Duration: 133 days					
Months	July				August				September				October			November			December	
Std.Week/Normal	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
Rainfall (mm)	76.5	79.5	69.0	76.5	63.0	60.5	66.0	65.0	59.5	76.5	41.0	38.5	31.5	26.5	9.5	13.0	8.0	3.0	3.5	
Max. Temp. (°C)	32.1	32.1	32.1	32.0	32.4	32.5	32.1	32.3	32.8	32.8	32.7	32.7	32.4	31.7	31.0	31.0	30.1	29.5	28.5	
Min. Temp. (°C)	26.1	26.0	26.4	26.1	26.4	26.2	26.0	26.0	25.8	25.5	25.0	24.2	22.5	21.5	20.6	19.3	18.0	16.3		
Mean Temp. (°C)	29.1	29.0	29.2	29.0	29.4	29.3	29.1	29.1	29.4	29.3	29.1	28.9	28.3	27.1	26.3	25.8	24.7	23.7	22.4	
RHmax (%)	95.8	95.6	95.6	96.1	96.0	95.9	96.2	96.5	96.7	96.7	96.8	96.5	96.2	96.3	96.0	95.6	95.9	95.8	95.5	
RHMin (%)	75.5	74.8	74.5	75.1	73.7	73.7	74.0	73.7	71.6	70.2	69.2	65.6	63.3	59.2	57.4	53.9	51.3	49.0	46.7	
RHmean (%)	85.6	85.2	85.0	85.6	84.8	84.8	85.1	85.1	84.1	83.4	83.0	81.1	79.8	77.8	76.7	74.7	73.6	72.4	71.1	
SShr (hrs)	29.0	30.0	29.5	31.0	32.5	31.5	32.0	34.5	36.0	38.0	41.5	47.5	49.5	52.5	48.5	53.5	52.5	53.5	53.0	
WD (deg)	179	170	172	170	178	172	173	181	188	190	189	203	193	184	173	176	189	197	197	
WS(Km/hr)	6.2	6.5	5.9	6.5	5.6	5.6	5.5	5.5	4.6	4.8	4.3	3.7	4.1	3.8	3.4	4.1	3.8	4.3	4.3	
																				
	Seedbed	Transplanting		Tillering				Heading	Flower ring	Grain Formation	Maturity to Harvesting									
Favorable Weather Conditions																				
Temperature	At least 10° C for germination												22-25° C			23-27° C				
Light Intensity									≤200% of normal											
Relative Humidity									High											
Soil Temperature									Above 16° C											
Normal phase	76				120				190				145			100				

The Crop-Weather Calendars (CWCs) are used in agromet-advisory services. With the week as the basic time unit, the compiled information can assist forecasters in framing weather warnings and forecasts directed at farmers. IT Agri develops crop and location specific CWC.



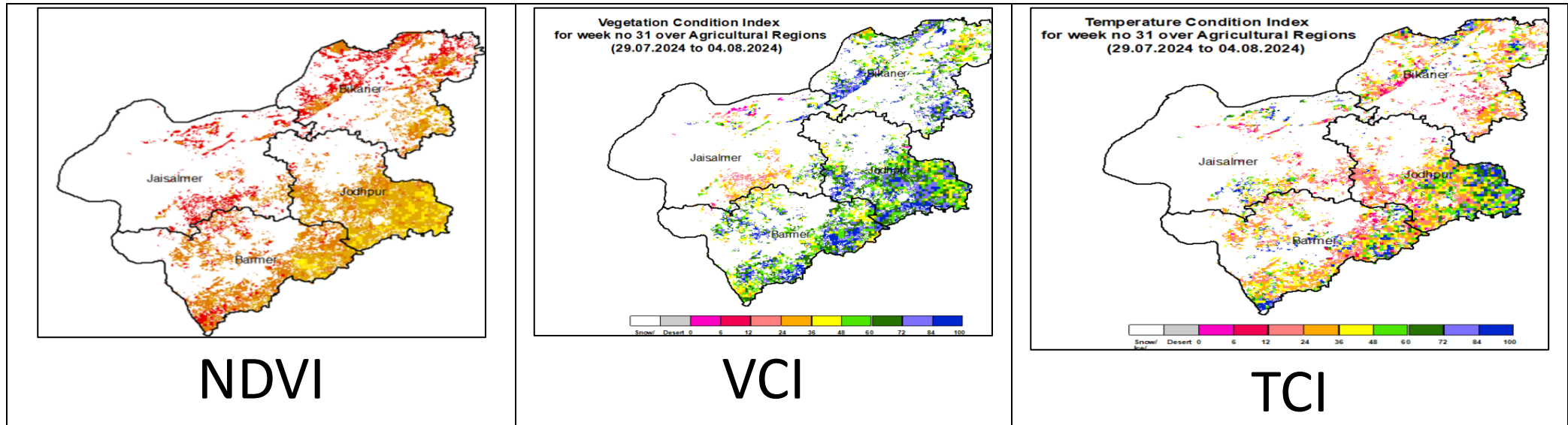
IT AGRI
sustainability for agro-meteorology

2. PEST WEATHER CALENDAR

Weather warnings	Max. temp. 0C	>33.3°C(36 wk)									
	Min. temp. 0C										
	Morning RH (%)										
	Afternoon RH (%)	<71.0%(36 wk)									
	Sunshine hours	>7.4hour(36 wk)									
Weekly normal weather	Total Rainfall (mm)										
	Rainfall(mm) total	37.9	33.8	41.5	65.7	47.2	55.2	78.1	61.7	53	
	Max. temp. °C	30.1	30.5	30.6	30.5	30.8	31.2	31.5	31.4	31.9	
	Min. temp. °C	22.8	22.9	22.9	22.9	22.9	22.9	22.9	22.8	22.7	
	Sunshine hours	6.3	6.8	6.3	6.3	6.0	6.3	5.7	6.2	6.7	
	Morning RH (%)	94	94	94	94	95	95	95	94	94	
Afternoon RH (%)	70	67	70	67	69	68	68	67	64		
Mean dates of important epochs of crop growth and pest development	 Egg										
	 Larva										
	 Adult										
	Transplanting										
	Vegetative growth										
	Flowering										
Standard weeks		36	37	38	39	40	41	42	43	44	
Months		SEPTEMBER				OCTOBER					

IT Agri prepares Pest weather Calendar & Disease Weather Calendars used for pest and disease forecasting and subsequent application of pesticides to save the crop loss due to the incidences of pests and diseases.

3. SATELLITE PRODUCTS FOR ASSESSMENT OF CROP CONDITION.



Several satellite-derived vegetation indices, such as the Normalized Difference Vegetation Index (NDVI), Vegetation Condition Index (VCI), and Temperature Condition Index (TCI) etc, have been developed to monitor drought from local I scale. These indices help assess drought-related vegetation stress .



4. AGROMET ADVISORY SERVICE BULLETIN



IT Agri delivers crop-wise services on land preparation, sowing/transplanting, fertiliser and pesticides application, irrigation, harvesting etc through Agromet Advisory Service Bulletin. based on weather information and ,weather forecast through production of Agromet Advisory Service bulletin.

EXAMPLE: AGROMET ADVISORY SERVICE BULLETIN

Weather Conditions for Last Four Days (28.09.2024 to 01.10.2024)

Weather Parameters	28.09.2024	29.09.2024	30.09.2024	01.10.2024	Range
Rainfall (mm)	1.0	1.0	0.0	9.0	0.0-9.0 (Total: 11.0)
Maximum Temperature (°C)	33.6	33.6	31.0	34.5	31.0-34.5
Minimum Temperature (°C)	26.5	27.6	27.7	26.8	26.5-27.7
Relative Humidity (%)	64.0-92.0	73.0-93.0	81.0-92.0	70.0-95.0	64.0-95.0
Wind Speed (km/h)	2.1	4.0	0.5	0.0	0.0-4.0
Wind Direction	South/South-westerly				South/South-westerly
Cloud Amount (Okta)	5	5	5	7	4.6-7.0

Weather Forecast as per Bangladesh Meteorological Department (02.10.2024 to 06.10.2024)

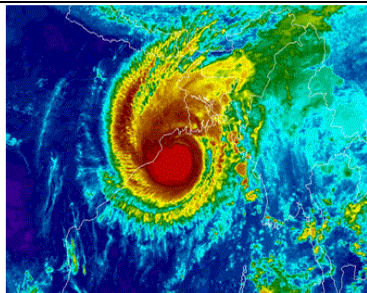
Weather Parameters	02.10.2024	03.10.2024	04.10.2024	05.10.2024	06.10.2024	Range
Rainfall (mm)	24.4	17.4	14.5	11.4	1.8	1.8-24.4 (Total: 69.4)
Maximum Temperature (°C)	31.1	30.5	30.4	30.2	30.3	30.2-31.1
Minimum Temperature (°C)	25.3	25.5	25.0	24.8	24.6	24.6-25.5
Relative Humidity (%)	83.2-92.8	91.6-92.2	86.2-91.8	87.1-92.3	86.8-88.1	83.2-92.8
Wind Speed (km/h)	7.9	9.7	8.8	10.2	9.6	7.9-10.2
Wind Direction	South/South-westerly	South/South-westerly	South/South-westerly	South/South-westerly	South/South-westerly	South/South-westerly
Cloud Amount (Okta)	Partly cloudy	Partly cloudy	Partly cloudy	Partly cloudy	Partly cloudy	Partly cloudy

Rice - Aman

Stage: Flowering

- Apply pesticides after the current spell of rainfall.
- Do not apply irrigation.
- Maintain 2-5 cm land water level.
- Present weather condition is congenial for Yellow Stem borer infestation. Apply Carbofuran at 10 kg per hectare.

5. SPECIAL AGROMET ADVISORY SERVICE BULLETIN UNDER EXTREME EVENTS



Cyclone



Drought



Flood

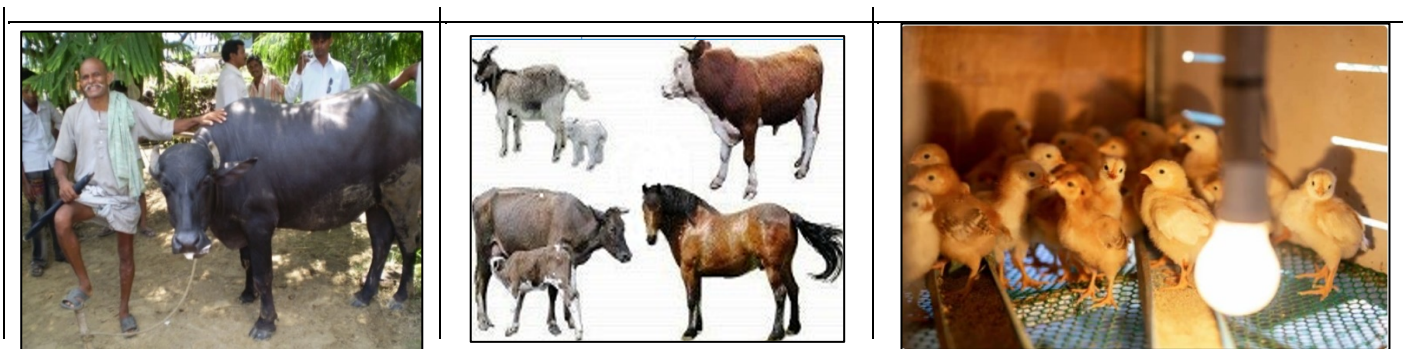
ITAGRI has the capability to assist in preparation and issuing of agromet advisory bulletins under extreme weather conditions to save the loss of crop, livestock, poultry and fishery. IT Agri also assist in preparing do and don't advisories under extreme weather conditions.

Example: Special Advisories Bulletin under Cyclone

1. Where early transplanted paddy found 80% maturity, harvest immediately
2. Make a heap of harvested crop in the field and cover it with polythene tightly so that there may not be any damage due to high wind & heavy rainfall
3. Immediately harvest matured vegetables and matured cotton bolls.
4. Clean the irrigation channel so that there should not be any standing water in the crop field.
5. Arrange for elevated bunding around and inside the Aman paddy field so that water current may not affect the standing crops.
6. Avoid application of fertilizer, pesticides, irrigation.
7. Avoid seedbed preparation for boro paddy and sowing of mustard, maize, pulses, potato etc.
8. Keep all the farm produce in safe place.
9. Provide mechanical support like popping of sugarcane crops (tying of three to four plants together), support of horticultural crops particularly banana with three to four bamboos support to fruit plants and stacking of vegetables.
10. Arrange nets around the ponds so that fishes may not come out due to heavy rainfall
11. Livestock & poultry birds should be placed in indoors and dry places.

Fishermen are advised not to venture in deep sea

6. LIVESTOCK, POULTRY ADVISORY BULLETIN



IT Agri assist in generating weather-based advisories for livestock, poultry farmers and disseminated advisory through SMS & voice messages to the farmers and local stakeholders. By implementing this service, a large number farmers can increase milk, poultry production.

Example: Livestock Advisory

- Give anthelmintic drugs
- Use naphthalene or turpentine oil to reduce mosquitoes.
- Feed mineral mixture to increase immunity.
- Give enough cold water to drink.
- Keep the cattle in the safest place to protect them from storms, rain, and lightning.
- Keep enough ventilation in cowsheds.
- Keep the cowshed neat and clean.

Example of Poultry Advisory

- Vaccinate if not vaccinated against Ranikhet, cholera, duck plague.
- Remove affected poultry if disease occurs.
- Use clean water or glucose saline in more heat.
- Keep the poultry shed clean and dry.



7. FISHERY BULLETIN

IT Agri helps to provide fishery advisory based on temperature, oxygen level and assists in generation of advisories for fish management under extreme weather conditions with close collaboration of the related organisations.



Example of Fishery Advisory

- To prevent escape of cultured fish and entry of predatory fish, apply soil and raise the embankment for control fishes during flood. Put net around the fish ponds
- To prevent water contamination and change in water quality, renovation of ponds and establishment of horticultural plants is recommended to control flood waters.

8. INSTALLATION & MAINTENANCE OF WEATHER STATIONS



IT Agri is managing to install different weather stations. IT Agri has the expertise in installation and maintenance of all types of meteorological and agrometeorological instruments.

