### WHEAT BLAST EARLY WARNING SYSTEM MANUAL





## HOME PAGE



and recommendations made in this EWS do not necessarily reflect the views of the above-mentioned organizations.



# WHEAT BLAST MENU

Wheat Blast EWS	
	Home
🖉 Wheat blast 🛛 🗸 🗸	Welcome
About this model	
	प्रियो साथ प्रिय प्रारम् प्रारम् प्रारम् प्रारम् स्व
	*
🛎 Forecast risk map	

Click here to find the map with the weather forecast and risk data for Wheat blast disease according to the selected country.

Click here to see maps of the location and data on field observations of wheat blast in Bangladesh taken by CIMMYT, BWMRI, BARI and DAE.

Click here to find information resources about Wheat Blast

	Wheat Blast FWS	Guided tour ┥ Skins 🕸 Login Đ
Home	Finder Black Live	Click here to open the
Welcome	🖶 Home	features of Wheat Blast model
	🖉 Wheat blast 🛛 🗸 🗸 🗸	Click here to find technical information about the blast model.
map with	About this model	ze and Wheat Improvement Center (CIMMYT) in partnership with EMBRAPA and the University of sion partners. This effort has been supported by the U.S. Agency for International Development
disease	🚺 Observed risk map	Click here to find the observed risk map for
	Lul Observed risk data	ave contreshand be each weather station, along with your last hour weather information.
by USAID and the B	Forecast risk map	SCIAR Platform on Big Data through the Crop Modeling Community of Practice. The research
e of the eld blast in	Wheat blast sampling	Click here to find find the weather and risk data observed by weather station, along with their
CIMMYT,	Bangla blast fact sheet	graphs for statistical analysis.
E.	Information resources	
rmation at Blast	i Crop and Disease model	Click here to find Bangla fact sheet about Wheat Blast.

## **OBSERVED RISK MAP**

Wheat Blast EWS	=	Inputs	Guided tour 🛩 Skins 🕸 Login Đ
	Obser	Country	脅 Home > Observed risk map
	7,2 3	country	Gongbo'gyamda bo mi
	fa +	Bangladesh 👻	Click here to select the country
Inputs Country	radal no	Climate data source	Bangladesh / Brazil).     Bhutan xian that the that that
Bangladesh 👻		BMD v	Click here to select the climate data
Climate data source	or		source (BMD/ CIMMYT stations ). 大理市 Panzhihua Dali
Weather stations	ansi	Weather stations	足明 本被主 Kunn Rogra
All stations	Sagar	All stations -	Click here to select the weather stations you want to show on the map or leave blank to show
01/01/2018	a h	Day	all. sing a pur Kalaw Click here to select the date of Puer
Today`s date	Nagpur	01/01/2018	interest in your exploration of wheat
	Changra		Diast - climactic interactions ອ້ອຍອີດ ຊີຣິບິດລະພິດ Sittwe (Rakhine) ຣະບິດລິຍາດ Tachilek Laos
	Karimnas	Today`s date	Click here to return today's date.
	Telangano		High Vientia

### HOW TO GET OBSERVED RISK MAP

### **STEP 1**

Select the country (Bangladesh / Brazil)

Country			
Bangladesh	•		
Climate data source			
BMD	· ·		
Weather stations			
All stations			
Day			
01/01/2019			

### STEP 2

Click here to select the climate data source BMD/ CIMMYT stations

Country	
Bangladesh	3
Climate data source	
BMD	6
Weather stations	
All stations	
Day	
01/01/2018	

### STEP 3

Select the weather stations you want to show

Country	
Bangladesh	v
Climate data source	
BMD	Ŧ
Weather stations	
Weather stations All stations	
Weather stations All stations Day	

### **STEP 4**

Select the date of interest in your analysis of historical climactic data

Country	
Bangladesh	Υ.
Climate data source	
BMD	~
Weather stations	
Weather stations All stations	
Weather stations All stations Day	



# **OBSERVED RISK MAP**





## HOW TO RUN RISK MODEL

#### **STEP 1 STEP 2 STEP 3 STEP 4** Select the date of interest Select the country Select which weather Select state/district in your analysis of (Bangladesh / Brazil) station to use data historical climactic data Country Country Country Bangladesh Bangladesh States States Bhola District **Bhola District** Bhola District Bhola District Weather stations Weather stations Weather stations Weather stations Bhola District Bhola District **Bhola District** Select date of interest Select date of interest Select date of interest Select date of interest 02/01/2019



Wheat Blast EWS ≡	Guided tour ≁ Skins≮	🕻 Login Đ
<ul> <li>₭ Home</li> <li>♥ Wheat blast</li> </ul>	)bserved risk data Arme > 0	bserved risk data
Click here to access wheat blast risk fact graphs.	Weather data graphs Weather data explorer Click here to access the Weather data explorer.	
Risk factor Weather data graph Click here to access Weather data graph <sup>80</sup> <sup>60</sup> <sup>40</sup> <sup>20</sup> Hovering over correspondin particular dat	hs Weather data explorer S the hs. Favorable days for infection are represented by the red vertical bar. Here you will find the Interactive Graphics Features. These features allow you to customize your graphs and interact with the data. For the lines of the graphs g data point for a e of interest.	19 19

# **HOW DO A ASSESS RISK**

#### Wheat Blast EWS

Skins 02

Mar 03, 2019

Mar 03, 2019



### HOW TO GET WEATHER DATA

#### **STEP 1 STEP 2 STEP 3 STEP 4** Select the date of interest Select the country Select which weather Select state/district in your analysis of (Bangladesh / Brazil) station to use data historical climactic data Country Country Country Bangladesh Bangladesh States States **Bhola District Bhola District** Bhola District **Bhola District** Weather stations Weather stations Weather stations Weather stations Bhola District **Bhola District Bhola District** Select date of interest Select date of interest Select date of interest Select date of interest 02/01/2019





Wheat Blast EWS										led tour <del>-</del>	🖌 Ski	ns 📽 🛛 Login 🕫
🖀 Home	Observed risk d	ata									🕷 Home	> Observed risk data
Wheat blast	here to select	table row n	umber.									
i Crop and Disease Model	Wea	ther data graphs	Weather data expl	orer	_	_	_	_	_	_	_	_
	Show 10	entries										
Country	Date	Max. temp. (C)	Min. temp. (C)	Max. RH.(%)	Min. RH.(%)	Temp(C)	Rain(mm)	RH(%)	D. point(C)	Spor	IP	Spore cloud
Bangladesh 🔻	2018-11-03	31.8	22.7	99	58	26.88	0	82.62	0	0.95	0.95	0
States	2018-11-04	32.2	22.8	99	57	26.52	0	85.58	0	0.68	2.27	0
Bhota District	2018-11-05	31.3	22.7	98.3333	62	26.73	0	84.29	0	0.69	3.35	0
Bhola District	2018-11-06	30.7	22	99	65	25.74	0	88.38	0	0.79	4.88	0
Select date of interest	2018-11-07	30	20.17	99	54	24.76	0	84.12	0	0.73	6.12	0
02/01/2019	2018-11-08	30	19.63	99	51	24.31	0	81.83	0	0.72	7.34	100
	2018-11-09	29.7	17.87	98.6667	38	22.84	0	78.92	0	0.68	8.48	100
Today`s date	2018-11-10	29	17.8	99	44	22.75	0	Click I	nere to a	o to t	he ne	ext page
	2018-11-11	30	17.8	99	45	22.95	0					
	2018-11-12	29.2						82.96	0	0.71	12.07	100
	Showing 1 to 1	0 of 244 entries		ere to go to	o the prev	lious pa	age.	Previo	us 1 2	3 4	5.	25 Next

## FORECAST RISK MAP

Wheat Blast EWS		Guided tour 🛩 Skins 🕸 Login Đ
	Forec	🖨 Home > Forecast risk map
	Inputs	7 Next>
Inputs	Country	Click here to select the country
Country		(Bangladesh / Brazil). 商正市 Xichang
Layer	Bangladesh	Assam ···································
Wheat Blast 🔹	or second s	uwahati Nagalana maićluஹ்ஸ் jushui 大理中 Panzhihua ghalo 月
Source	Layer	interested in and wish to see on an
BMD -	sagar Whoat Plact	interactive map. Options include gridded
	wheat blast	forecasts wheat blast risk, temperatures,
	Source	rainfail or numidity).
	Nag	နေ့ဆင်ဦး Region Shan-Staat Mengla မန္တလေးတိုင်း ရှမ်းပြည်နယ် Mengla မန္တလေးတိုင်း
	BMD	Click here to select the data source
		(Bangladesh Meteorological Department
	Karima	/ Daikoky).
	Telangana Visakhapatnam	(Bago) (Bago) No risk factor Vientia
	rabadKajamanendravaram	Baco Revenue - Revenue - Moderate

## HOW TO RUN FORECAST RISK MAP

STEP 2	STEP 3		
Select the variable most interested	e are d	Select the data (Bangladesh Mete Department / Da	source orological arkSky)
Country		Country	
Bangladesh		Bangladesh	V
Layer		Layer	
Wheat Blast		Wheat Blast	v
Source	200	Source	
BMD	~	BMD	•
	STEP 2 Select the variable most interested Country Bangladesh Layer Wheat Blast Source BMD	STEP 2 Select the variable are most interested Country Bangladesh	STEP 2   Select the variable are most interested   Country   Bangladesh   Layer   Wheat Blast   Source   BMD

### RESULTS



# FORECAST RISK MAP



# WHEAT BLAST SAMPLING

Wheat Blast EWS 🛛 🗉	Inputs	Guided tour ≁ Skins ‡ Login ÷
🕷 Home 🕔		番 Home > Wheat blast sampling
Wheat blast < i Crop and Disease model	Years	Click here to select the year of the sampling.
Inputs	2018	র কালিয়া কচুয়া বরক্ড়া সুয়াগঞ্জ ro Char Kochua Barura Suagani পানছড়ি
2018 -	Stations	হাজীগঞ্জ বুনাওজনজন চাদপুর Hajiganj Muddafarganj andpur মনোহরগঞ্জ ফরিদগঞ্জ Monohorganj Fai
Bhola 👻	Bhola	Click here select your weather station location of interest.
Third sampling   Stage Reproductive	Sampling	Noakhali
	Third sampling	third sampling conducted by surveillance teams during the late vegetative and reproductive stage of wheat.
	Stage	Click here to select phenological stage you
	Reproductive	(flowering, heading, ripening, maturity)

### HOW TO GET WHEAT BLAST SAMPLING

### **STEP 1**

Select the year of the sampling

Years	
2018	*
Stations	
Bhola	~
Sampling	
Third sampling	Υ.
Stage	
Reproductive	~

### STEP 2

Select your weather station location of interest

Years	
2018	
Stations	
Bhola	3
Sampling	
Third sampling	
Stage	

### STEP 3

Select between first, second or third sampling

Years	
2018	v
Stations	
Bhola	v
Sampling	
Third sampling	v
Stage	
Reproductive	~

### **STEP 4**

Select phenological stage you are interested in

v
v
v
*



## **BANGLA FACT SHEET**

Wheat Blast EWS	=		Skins 🕫	Login Đ
🖀 Home	Fact sheet		🖨 Home	Fact sheet
🖉 Wheat blast 🛛 🗸 🗸				
About this model	nazmul	Click here to download.	-	
🕅 Observed risk map	The state of the s			
LIII Observed risk data				
lacktrick Forecast risk map		Click here to print.		
Wheat blast sampling		ামের ব্লাস্য রোগ ও তার প্রাত্মনার		
Bangla blast fact sheet				
Information resources	You are here.	গমের ব্লাস্ট একটি ক্ষতিকর ছত্রাকজনিত রোগ। গমের শীষ বের হওয়া থেকে ফুল ফোটার সময়ে তুলনামূলক গরম		
i Crop and Disease model		্র ও অদ্র আবহাওয়া থাকলে এ রোগের আক্রমণ ঘটতে পারে। রোগাট ১৯৮৫ সালে সবপ্রথম ব্রাজিলে দেখা যায় এবং পরবর্তী সময়ে ব্রাজিলসহ দক্ষিণ আমেরিকার বলিভিয়া, প্যারাগুয়ে, আর্জেন্টিনা ইত্যাদি দেশে এর বিস্তার হয়। বাংলাদেশে সর্বপ্রথম ২০১৬ সালের ফেব্রুয়ারি মাসের মাঝামাঝি সময়ে যশোর, কুষ্টিয়া, মেহেরপুর, ঝিনাইদহ, চূয়াডাঙ্গা, বরিশাল ও ভোলা জেলায় প্রায় ১৫০০০ হেক্টর জমিতে এ রোগের আক্রমণ পরিলক্ষিত হয়। আক্রান্ত গম ক্ষেতের ফলন শতকরা ২৫-৩০ ভাগ ব্রাস পায় এবং ক্ষেত্র বিশেষে এ রোগের কারণে ক্ষেতের সম্পূর্ণ ফসল বিনষ্ট হতে পারে। গত ২০১৬-১৭ মৌসুমেও দেশের দক্ষিণ-পশ্চিমাঞ্চলের যশোর, মেহেরপুর, মাগুরা, ঝিনাইদহ, চুয়াডাঙ্গা, কুষ্টিয়া ও ফরিদপুর জেলায় বিচ্ছিন্নভাবে এ রোগের আক্রমণ পরিলক্ষিত হয়, তবে সংক্রমণের মাত্রা ৫-১০% এর মধ্যে নিরূপণ করা হয়। যথাযথ রোগ নিয়ন্ত্রণ ব্যবস্থাপনার উপর সময়োপযোগী কর্মপরিকল্পনা প্রণয়ন ও সমন্বিত কার্যক্রম গ্রহণ করার ফলে এ মৌসুমে গমের ব্লাস্ট রোগ নিয়ন্ত্রণে রাখা সম্ভব হয়েছে। <b>গমের ব্লাস্ট রোগ চেশার উপায়</b>	*	
		সম ক্ষেতে ব্লাস্ট আক্রান্ত ছানে শীষ সাদা হয়ে যায় এবং অনুকূল	+	

## **INFORMATION RESOURCES**

