LIMS MONITORING & REPORTING

USER MANUAL



Quick overview

Login to LIMS Monitoring Tool.

Mark farm after geo locating.

Enter farm name.

Go to monitoring dashboard.

Start monitoring.



Login to LIMS Monitoring Tool

Step 1: Go to https://limspakistan.com/agrimonitoring and login using credentials shared at your email.



Geo Locate Farm

There are two ways to geo locate farm:





Enter district name and manually

navigate to farm.

Draw farm boundary

Step3: After geo locating the farm, user need to indicate farm area by drawing map boundaries (Tools to draw map boundary are highlighted below).









Upload Farm

Step 4: After finish marking the area, prompt will appear to ask user to give your farm a name. User can enter any custom name so that it can be easily retrieved. After entering farm name, user need to press proceed button and it will initiate farm uploading.

Success! Field Boundary Uploaded

Please note that you have successfully uploaded the filed boundary, please enter a name below and click on the proceed button. Your farm will be available shortly for monitoring. Meanwhile please check this farm's Soil, weather, and water analytics.

PROCEED



Farm's parameters

While Farm upload is in progress, user can check:

- Area of marked farm in acers.
- Agrometeorology data.
 - Current conditions.
 - 14 Days forecast.
- Soil attributes.
- Crop water requirements.
 - Including time to irrigate area.
- Ground water attributes.



Area of Farm

User can check above mentioned parameters by clicking anywhere on the farm

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Weather forecast

Humidity: 35 %

Humidity: 40 %

Humidity: 50 %

Humidity: 51 %

Humidity: 42 %

Sunny

36 ℃

34 ℃

31℃

30[℃]

32 ℃



Windpseed: 7 (Miles) Rainfall: 0.0 mm Humidity: 63 % Cloudcover: 75% Current Observations

33℃

Windpseed: 12 (Miles) Rainfall: 0.2 mm Humidity: 50 % Patchy rain possible Observations for: 2023-09-20

36℃

Windpseed: 15 (Miles) Rainfall: 0.0 mm Humidity: 39 % Sunny Observations for: 2023-09-21

Wind Speed: 17 (Miles) Rainfall: 0.0 mm Humidity: 36 % Sunny Observations for: 2023-09-22



Observations for: 2023-09-29 Observations for: 2023-09-30 NAND MAN Observations for: 2023-10-01

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Soil, Groundwater and Crop water requirements



Crop water requirements

1182				Enter area ii	n acres and press	calculate button	and the second
Select Crop(s)		Cultivated Area	Calculate Crop Water	r Requirement			
Export to xis	Export to csv	export to txt					
Date	Et0 (mm)	Temprature	Humidity	Sunshine	Wind	Altitude	
2023-09-11	9.35mm	36 C	29%	12.7	9 m/s	125	
2023-09-12	8.93mm	37 C	27%	12.7	8 m/s	125	
2023-09-13	9.56mm	37 C	24%	12.7	9 m/s	125	
2023-09-14	9.39mm	37 C	26%	12.6	9 m/s	125	ON AND MAN
2023-09-15	7.99mm	38 C	24%	12.6	6 m/s	125	on Anton
2023-09-16	8.2mm	38 C	30%	12.6	7 m/s	125	ANI ON
2023-09-17	8.28mm	35 C	44%	12.6	9 m/s	125	
2023-09-18	7.79mm	31 C	53%	12.2	9 m/s	125	WITER OF EXCELLENCE

Crop water requirements

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After clicking calculate button, user will be able to view irrigation values.

Date	Et0 (mm)	CWR (Cubic Meter)	(Inches)	Tempratu	re Humidity	Sunshine	Wind	Altitude
15-09- 2023	7.99	cotton = 333.44		38 C	24%	12.6	6 m/s	125
16-09- 2023	8.2	cotton = 342.2		38 C	30%	12.6	7 m/s	125
17-09- 2023	8.28	cotton = 345.54		35 C	44%	12.6	9 m/s	125
18-09- 2023	7.79	cotton = 325.09	0.34	31 C	53%	12.2	9 m/s	125
		Cubic meter volume of water needed	1: 2899.97					
		Inches volume of water needed:	: 3.04					
Cubic feet volume of water needed: 102412.44								
	Seconds per acre of irrigation: 128015.55							
Time to Irrigate: 21.34								

Email alerts



Download KML to visualize

Hey Nabeel,

Thank you for using LIMS Pakistan Monitoring Tool, We have recieved your request for Farm Umar_farm and we will update you shortly.

Meanwhile you can check:

Important parameters of soil which give information about the soil fertility. Current weather, weather forecast Crop Water Requirements

Explore More

After user has pressed proceed button, it will initiate farm uploading so that user can start the monitoring.

User will also receive email alert that farm upload is in progress in the start and when farm is uploaded, user will simply press the Start Monitoring button and it will take user to monitoring dashboard. Please note that user can see farm name entered in Step 4, same will be used to search the farm on monitoring dashboard.



Hey Nabeel,

Thank you for using LIMS Pakistan Monitoring Tool, Your farm Umar_farm is now available for monitoring. Please click on the button below



Monitoring dashboard



Monitoring dashboard expended view

Dispaly Indices: LIMS Crop Monitoring Dashboard 2023-08-18 LIMS Crop Monitoring Dashboard 2023-08-21 742QuaidabadBandialShu 2023-08-21 742QuaidabadBandialShu Start Date: 2023-08-21 2020-01-01 End Date: 2023-08-21 2023-08-31 2023-08-23 **Dispaly Indices:** 2023-08-28 Sentinel Dates 2023-08-28 Indices: Map Index \$ Start Date: 2023-08-28 Zoning \$ WATION AND MANA 2020-01-01 2023-08-28 Indice Values: 2023-08-28 Click on map to get Selected Indice Value End Date: Download Indice Image: 2023-08-31 Download Effected Area for field scouting WTER OF EXCELLEN

Monitoring dashboard Indices



Map will start to load layers data on screen. Wait for complete upload of layer and monitor based on values mentioned on the right side of layer

Indices:	2
Map Index	
Crop Stress Insects and Diseases	◄
Crop Moisture	
Weeds	
Weeds and Early Fertilizer	
Nitrogen	
Crop Growth	

Now select Map index from indices, a list will appear, select Crop Stress Insect and Diseases.

User can check other indices too.





Monitoring dashboard Zones

Map will start to load layers data on screen. Wait for complete upload of layer and monitor based on values mentioned on the right side of layer

Zoning



Crop Growth

Polygon drawing. etry Layer 1 3.5 Acres (0.41 4 4 Acres (0.39) 4 5 Acres (0.36)

Keyboard shortcuts | Imagery ©2023, CNES / Airbus, Maxar Technologies | 20 m Land | Terms of Use | Report a map error



Now select Map Zones from zones, a

list will appear, select Crop Stress

User can check other indices too.

Insect and Diseases.

Monitoring dashboard Scouting

Q Search places

Geometry Layer 1 (1 poly)

bulkdata 🕜

Start Date:

2020-01-01 End Date: 2023-08-31 **Dispaly Indices:**

Indices:

Indice Values:

Aonitoring

742QuaidabadBandialShu

2023-08-21

Map Inde **Crop Growth**

Click on map to get Selected Indice Value Download Indice Image

Draw polygon using polygon tool

After drawing press, scout this area button, it will download the KML file for the user

load Effected Area for field scouting 3.1 Acres (2.18) Scout This Area 4.2 Acres (2.05) 4.3 Acres (1.92) 3.4 Acres (1.81 Click on Map For Tempora On the basis of data monitored from Crop Stress Insect and **Diseases, Crop Moisture, Nitrogen** and **Crop Growth** from zoning, make polygons for effected areas that should be checked and treated for any stress including water, fertilizer or insect pest attack

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Polygon drawing.