

# FarmTrack User Manual

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## 1. Purpose

This manual explains how to use FarmTrack for daily farm operations, including account setup, adding farms and crops, monitoring field activity, reading analytics, and exporting reports.

## 2. Account Setup

- Open the app and select Sign Up.
- Enter full name, email, and password.
- Check email and complete verification.
- Sign in and wait for account approval if your organization requires activation.

## 3. Login and Navigation

- Use Login with your registered email/password.
- After login, the sidebar shows dashboard, monitoring, histories, projection, weather, reports, profile, and users (admin only).
- Use the top-right Logout button to end your session.

## 4. Dashboard Workflow

- Review top metrics: farms count, active crops, harvest in 14 days, cycle progress, and overdue harvest.
- Open farm cards to inspect current crop stage and timing.
- Open field analytics links for deeper health indicators.
- Use action buttons for Add Farm/Add Crop/Users when your role is admin.

## 5. Add a Farm (Admin)

- Go to Add Farm.
- Enter farm name, location, code, and size in hectares.
- Use map picker if location coordinates are needed.
- Save and confirm farm appears on dashboard.

## 6. Add a Crop (Admin)

- Go to Add Crop and select the target farm.
- Enter crop name, planting date, expected harvest, and cycle duration.
- Provide field size hectares to support projection and capacity checks.
- Save and verify crop appears in dashboard analytics.

## 7. Monitoring Forms

- Open Monitoring to record soil, growth, irrigation, pest, and fumigation data.
- Submit updates regularly to keep analytics current.
- Use history pages to review all records by category.

## 8. Projection and Analytics

- Projection shows occupied vs free hectares by farm.
- Field analytics provides soil, weather, growth, water, pest, and overall health indices.
- Use these views for planning input allocation and harvest windows.

## **9. Weather and Alerts**

- Open Weather for current and forecast conditions.
- Check alert panels before irrigation, spraying, and harvest operations.
- Adjust field operations when high-risk weather is expected.

## **10. Reports and Export**

- Open Reports to view summary cards and trend data.
- Export CSV for spreadsheet analysis.
- Export PDF for management sharing and archive records.

## **11. AI Farming Assistant**

- Click AI Chat (floating button).
- Ask focused questions on stage management, irrigation, pests, weather, or reporting.
- If backend is unreachable, assistant returns offline fallback guidance.

## **12. User Administration (Admin)**

- Open Users to view registered accounts.
- Activate/deactivate accounts as needed.
- Promote or demote admin role where authorized by policy.

## **13. Troubleshooting**

Cannot login: Verify email/password and internet connection.

Stuck on verification: Complete email verification, then login again.

No Add Farm/Add Crop buttons: Your account is not admin.

AI assistant unavailable: Run API server and verify .env provider settings.

No data in analytics: Ensure farms, crops, and monitoring records exist.

## **14. Best Practices**

- Record monitoring data consistently (daily or scheduled intervals).
- Keep crop dates and field sizes accurate for reliable projections.
- Use reports weekly to detect risk trends early.
- Limit admin rights to trusted operators only.