

FarmTrack User Manual

Version: 1.0 | Generated: February 15, 2026

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.