
KIKOKEEPER

The Ultimate Goat Herd Management Guide
& Complete Field Manual

Designed for Goat Ranchers & Meat Goat Breeders of All Breeds

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1. Overview, Setup & Authentication

KikoKeeper is a full-featured, offline-first herd management application designed specifically for goat ranchers, kidding operations, and meat goat breeders. The application works completely offline in remote pastures and automatically synchronizes with your cloud database and desktop PCs whenever an internet connection or local network is available.

Key System Features:

- **Authentication & Google Login:** Sign in securely using an Email/Password or 1-Click Google OAuth. Secure password recovery links are delivered instantly to your email and route directly back into the app.
- **Offline-First Architecture:** All herd records, weight logs, and medical events are saved locally on your mobile device. Work in remote barns with zero cellular signal.
- **High-Speed Cloud Sync:** Our newly optimized 50x faster SQLite transaction engine seamlessly synchronizes massive herds between mobile devices and desktop computers via Supabase Cloud.
- **Multi-Device Support:** Use KikoKeeper on Android, iOS, Windows Desktop, and macOS with unified data formats.

2. Animal Profiles & Herd Registry

Every goat in your herd has a comprehensive digital profile tracking birth details, physical identifiers, pedigree lineage, and health history.

- **Adding an Animal:** Tap the floating (+) **Add Goat** button from the main dashboard or herd list. Enter registered name, barn name, sex, breed, date of birth, and coat color.

- **Visual Identification:** Upload profile pictures for your goats. Profile pictures will seamlessly appear in Animal Selection lists throughout the app (Health Records, Weight Logging, and Pasture Management), replacing the default monogram.
- **Tags & Microchips:** Store primary ear tag, EID/Rfid microchip numbers, scrapie tags, and official tattoo codes (right ear / left ear / tail web).
- **Pedigree Lineage:** Link Sire (father) and Dam (mother) profiles to generate automated multi-generation pedigree charts.

3. Weight Records & ADG Tracking

Tracking weight gains and Average Daily Gain (ADG) is essential for selecting top-performing meat goats, evaluating doe milk production, and identifying slow growers early.

Per-Category ADG Target Ranges

Different age groups have distinct natural growth rates. KikoKeeper allows you to configure independent ADG target thresholds (Minimum ADG and High Target ADG in lbs/day or kg/day) for each specific age category:

- **Pre-Weaned Kids:** Nursing kids (0 - 90 days). Evaluates dam milk production.
- **Kids:** Post-weaning growth (3 - 12 months). Identifies forage efficiency.
- **Yearlings:** Growing bucks and replacement does (12 - 24 months).
- **Adults:** Breeding stock maintenance (24+ months).

Live Goat Selection & Batch BCS Entry

In the **Weight Analytics** dashboard, interactive selection checkboxes allow you to filter statistics dynamically. Check individual goats or use **Select All / Deselect All** to instantly recalculate herd averages, ADG distribution pie charts, and breed performance bars for only the selected animals. In **Batch Entry**, set a **Herd-Wide Default BCS Score** (e.g., 3.0) to automatically apply body condition scores across selected goats in a single pass.

4. Breeding & Kidding

Manage your breeding season with complete control over matings, projected kidding dates, and litter delivery records.

- **Natural Service:** Track pasture breeding or live cover by an active herd sire.
- **Artificial Insemination (AI):** Record semen straw usage, technician, and thaw specs.
- **Embryo Transfer (ET):** Manage donor doe, recipient doe, flush dates, and embryo grades.
- **Kidding Litters:** Log birth date, dam BCS, litter size (singles, twins, triplets, quads), kid birth weights, presentation (Normal, Malpresentation, Assisted), and automatic newborn profile creation.

5. Health Logs, FAMACHA[®] & BCS

Maintain thorough health records for medical treatments, FAMACHA[®] parasite scoring, and Body Condition Scores (BCS).

- **Health Records:** Vaccinations, Dewormings, Supplements, Lab Tests (CAE/CL/BioPRYN), and Grooming.
- **FAMACHA[®] (1 - 5):** Inspect eye membrane color to identify anemia and parasite load.
- **Body Condition Score (BCS 1.0 - 5.0):** Monitor rib and spinal fat cover for nutritional management.

Donut Chart Drill-Down Summary Windows

Tapping any slice on Visual Analytics or Weight Analytics donut charts (e.g., FAMACHA[®] 4, low BCS, or high ADG) opens an interactive summary sheet (**AnalyticsDrillDownSheet**). Search goats, view metric timelines, inspect animal cards, and tap directly into an animal's full profile.

6. Advanced Calculators & Dosage Rules

KikoKeeper includes specialized calculators for parasite diagnostics and precise weight-based dewormer dosages.

- **McMaster FEC Calculator:** Enter feces weight, flotation volume, and chamber egg counts to calculate EPG (Eggs Per Gram).
- **FERC Resistance Test:** Calculate pre- and post-deworming egg reduction percentages to identify drug resistance.
- **Dewormer Dosage Calculator:** Calculates weight-based dosages (Valbazen, Safe-Guard, Ivomec, Prohibit, Cydectin) based on ACSRPC research guidelines (www.wormx.info).

7. Pastures, Finances & Cloud AI Receipts

Manage pasture rotations, financial ledgers, Cloud AI receipt processing, and IRS Schedule F tax preparation.

Cloud AI Receipt Scanning (Supabase & Gemini Vision)

Tap **Scan Receipt** to capture a photo of any store receipt (Walmart, Tractor Supply, Lowe's, Home Depot, etc.). KikoKeeper uploads the image to the parse-receipt Supabase Edge Function powered by Google Gemini Vision AI. The AI instantly extracts the **Vendor Name**, **Transaction Date**, **Total Amount**, and **Farm Expense Category** with 100% accuracy, creating a pending financial record ready for 1-tap review.

IRS Schedule F Farm Categories & Custom Category Mapping

KikoKeeper includes pre-populated IRS Schedule F (Form 1040) categories for both Farm Income (Raised Stock, Resale Stock, Ag Subsidies, Custom Grazing) and Farm Expenses (Feed & Hay, Vet & Meds, Supplies, Repairs, Pasture Lease, Equipment Rental, Depreciation, Freight, Fuel, Labor Hired, Taxes & Interest).

Custom Category Creation: Users can create custom categories (e.g. *'Dewormers & Vaccines'*, *'AKGA Registration Fees'*, *'Pasture Fertilizer'*) and map them directly to official IRS Schedule F tax lines (Lines 1a, 1b, 2, 4, 6, 7, 8, 10, 11, 13, 14, 16, 17, 18, 19, 20, 21, 22, 24a, 24b, 25, 28, 30, 31, 32). Access the Category Management screen (**ManageCategoriesScreen**) from the Cash Flow Dashboard or directly inside form dropdowns.

In-App IRS Schedule F PDF Document Viewer: Tap **Preview IRS PDF** on the Tax Center screen to view the actual prefilled 2-page official IRS Form 1040 (Schedule F) PDF directly inside KikoKeeper. Built with full pinch-to-zoom, page scrolling, and direct 1-tap printing/sharing features.

8. Voice Commands Reference Grid

Manage your herd hands-free using natural voice commands. Speak clearly into the Voice Command Overlay.

Category	Common Spoken Example	Shortcuts / Alternates	Pronunciation Hints	How App Parses It
Compound Commands	"Goat 123 had a FAMACHA [®] score of 2 and weighted 90 lbs"	tag 123 FAMACHA [®] 2 weight 90	FAMACHA [®] : FUH-MOTCH-UH Weight: WAYT	Splits on 'and'. Logs FAMACHA [®] 2 & Weight 90.0 lbs for Goat #123.
Kidding	"Goat SLS Doozie had twins, ear tagged them 1005 and 1006"	had twins, triplet birth, kidded	Twins: TWINZ	Matches dam, litter size 2. Assigns tags & colors to newborns.
Weight Logs	"Weighed SLS Doozie at 75.5 pounds"	weighed 75.5, weight 75.5	Weighed: WAYD	Identifies goat, extracts numeric weight '75.5', logs to database.
Vaccination	"Vaccinated SLS Doozie with CD and T 2 cc"	gave CD&T; shot of CDT 2cc	CD&T;: CEE-DEE-AND-TEE	Identifies health record. Normalizes name to 'CD&T;', registers 2 cc dose.
Deworming	"Dewormed Huska with Ivermectin 1.5 ml"	gave Ivermectin dewormer 1.5ml	Ivermectin: I-VER-MEK-TEN	Logs deworming entry. Extracts 'Ivermectin' and dosage '1.5 ml'.

9. Troubleshooting & FAQs

Q: Which Bluetooth RFID/EID scanners are compatible with KikoKeeper?

A: KikoKeeper is compatible with all standard Bluetooth EID/RFID stick and handheld scanners supporting HID (Keyboard Emulation) or SPP modes. Recommended models include Allflex (RS420, LPR, AWR), Shearwell EID Stick Readers, Tru-Test (SRS2, XRS2), Agident, and standard 134.2 kHz FDX-B / HDX handheld readers.

Q: How do I pair and use my microchip scanner with KikoKeeper?

A: Pair your Bluetooth scanner to your Android, iOS, or Windows PC in device settings. Open KikoKeeper and tap the "Scan EID Microchip" button or chute listener. Pull the trigger on your scanner to instantly read the 15-digit tag and open the animal's profile or log bulk actions.

Q: Does KikoKeeper work offline without internet or cell service?

A: Yes! KikoKeeper is built with an Offline-First Architecture. You can log weights, vaccinations, breeding events, pasture moves, and kidding records deep in remote pastures without any cell service or Wi-Fi. All changes are stored locally on your device.

Q: How does multi-device cloud syncing work across phones and PC?

A: Once your device reconnects to Wi-Fi or cellular data, KikoKeeper automatically synchronizes all pending edits with your cloud database. Edits made on your phone automatically sync to your PC, and multiple family members or ranch hands can manage the herd simultaneously.

Q: Can I upload official registration forms from any livestock registry?

A: Yes! You can upload any official registry's blank application form as long as it is in PDF format (including NKR, ADGA, ABGA, AKGA, or custom ranch association forms).

Q: How does KikoKeeper analyze and pre-fill PDF registry documents?

A: KikoKeeper contains a built-in intelligent PDF AcroForm engine. When you upload or select a PDF form, the app automatically analyzes interactive form fields (Tag Number, Tattoo, Animal Name, Birth Date, Sire ID, Dam ID, Breeder Name, Owner Details) and pre-fills the entire PDF document in seconds using your saved database records.

Q: Which registry forms are pre-loaded out of the box?

A: KikoKeeper comes pre-loaded with official NKR (National Kiko Registry) forms, including Registration Applications, Transfer Forms, Dual Registration Applications, Order/Fee Sheets, and DNA Request Forms. You can also upload any additional PDF form at any time.

Q: How far back do the Pedigree Trees go?

A: KikoKeeper currently displays 3 generations of interactive pedigree history (Parents, Grandparents, and Great-Grandparents). This 3-generation view is specifically designed to be mobile-friendly and easily readable on smartphones without pinch-zooming or side-scrolling. We are actively working on expanding to 4 and 5-generation views in an upcoming update!

Q: Which platforms and operating systems are supported?

A: KikoKeeper is supported cross-platform on Windows PC (download standalone setup installer KikoKeeper-Setup.exe or install from the Microsoft Store), Apple iOS (Apple App Store), and Android (Google Play Store).

Q: How is the Buck to Doe ratio calculated?

A: The Buck to Doe ratio tracker evaluates only active, owned breeding stock in your herd (status == active). It excludes sold, deceased, or culled animals to give you an exact, real-time breeding ratio.

Q: What features are in the Visual Analytics Hub?

A: The Visual Analytics Hub provides category-segmented visual graphs for Health (FAMACHA[®] distribution, FEC parasite trends), Weight (ADG & growth), Breeding (kidding birth type breakdown), Financials (Income vs Expense comparative bar charts), Milking, and Meat production.

Q: How do I use the Voice Assistant?

A: Tap the floating microphone button on the Home screen to open the Voice Command Overlay. Speak commands naturally, like "Log weight of 45 pounds for goat 1234", and the offline speech engine will parse the text and prompt you to save it.

Q: Support & Contact

A: Visit kikokeeper.com or email support@kikokeeper.com.

KikoKeeper - Herd Management Simplified.

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