



MANUAL COPY FOR

Simplified Mobile-based Rice Crop Manager Application



Application Home Page

The Application Home page is the first to load upon opening the application. It features various card views, each dedicated to different types of content. From helping you select the best variety of rice to guiding you through the process of embarking on your rice farming journey and managing the storage of your rice crop, our home page serves as a comprehensive gateway to all facets of the application.

- Card Views – You can click Card views to navigate for every available page of the app.
- Search Bar - The search bar can be found on every page, providing a convenient way to check or search for information included in the content.
- Hamburger button - The hamburger button at the top left of the app is a navigation button that allows you to show/hide navigational options.

The screenshot shows the mobile application's navigation menu. At the top left is the app's title, "Simplified Mobile-based Rice Crop Manager (SMRCM)", developed by RJ Salimaco @ 2023. To the right is a vertical navigation bar with a three-line menu icon and a magnifying glass search icon. Below these are ten menu items, each with an icon and text: Home (house), Best Variety (leaf), Land Preparation (flag), Planting (seedling), Use of Fertilizer (checkmark), Water (water drop), Pest & Diseases (insect), Crop Calendar (calendar), Harvest on Time (clock), Storage (box), and About SMRCM (info circle). Each menu item has a small thumbnail image to its right.

The Navigation

Navigation Feature: Your Farming Compass - Explore Every Aspect with Ease! 📖

Embark on a seamless journey through the intricate chapters of rice farming with our intuitive navigation buttons:

- **Home:** The central hub of your agricultural expedition. Stay updated with the latest insights, community updates, and quick access to essential sections.
- **Best Variety:** Navigate through a diverse world of rice varieties. Discover insights and guides to help you choose the best seeds for your fields, ensuring a flourishing harvest.
- **Land Preparation:** Lay the groundwork for success. Navigate through detailed guides on preparing your land, setting the stage for optimal

- **Planting:** Step-by-step guidance on the art of planting. Navigate through the planting process—from selecting seeds to creating the perfect environment for healthy rice growth.
- **Use of Fertilizer:** Cultivate with precision. Explore the nuances of fertilizer application with a guided navigation that helps you optimize nutrient levels for a thriving crop.
- **Water Management:** Navigate through the essential element of water. Learn best practices for irrigation, ensuring your fields receive the right amount of water at the right time.
- **Pest & Diseases:** Shield your harvest. Navigate through strategies to identify, prevent, and manage common pests and diseases, safeguarding your crop.
- **Crop Calendar:** Stay in sync with nature. Navigate through a comprehensive crop calendar that guides you on the best times for planting, harvesting, and essential farming activities.

- **Harvest on Time:** Optimize your harvest. Navigate through tips and techniques to ensure a timely and efficient harvest, maximizing the yield from your hard work.
- **Storage:** Secure your bounty. Navigate through guidelines on proper storage techniques to preserve the quality of your rice after harvest.
- **About App:** Explore the essence of our application. Learn about its features, mission, and how it can be your ultimate companion in the journey of rice farming.

Land Preparation
Simplified Mobile-based Rice Crop Manager

Search

Wet preparation is the most common way of preparing lowland fields. In this method, the soil is tilled in a saturated or flooded condition. It helps improve weed control and facilitates incorporation of nutrients in the soil. With its nature, wet preparation has a high-water requirement.

The following are the steps and processes involved in wet preparation:

- Step 1 - Repair or construct bunds
- Step 2 - Irrigate the field
- Step 3 - Perform primary tillage o...
- Step 4 - Flood the field
- Step 5 - Perform secondary tillag...
- Step 6 - Level the field

Accordion Tutorial: Unveiling Hidden Treasures with Ease!

Accordions are a powerful way to organize and present information in a sleek and space-efficient manner. Here's a step-by-step tutorial to guide you on how to open accordions effortlessly:

Step 1: Identify the Accordions

Look for sections marked with accordions on our page. They are often indicated by headers or titles that can be expanded or collapsed.

Step 2: Click Arrow down to Expand

To reveal the content hidden within an accordion, simply tap on the header or title. A satisfying click or a subtle animation might accompany the expansion, signaling that more information is now available.

Step 3: Explore the Content

Once expanded, delve into the hidden content. This could be additional details, explanations, or rich media. Explore at your own pace, and absorb the information presented.

Step 4: Close When Finished

To declutter the interface or focus on specific content, click the accordion header or title again. This action will collapse the accordion, neatly tucking away the information until you're ready to revisit it.

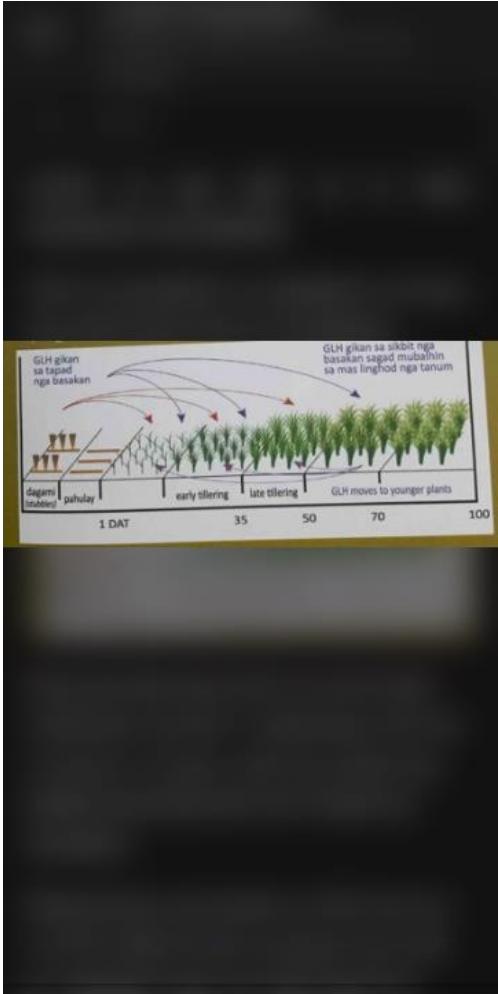


Image Hover and Popup Tutorial: Elevate Your Visual Experience! 🖼️ ⚡

Enhance your interaction with images on our website by learning how to effortlessly hover and trigger popups. Here's a step-by-step tutorial to guide you through:

Step 1: Identify Hoverable Images

Look for images that can be interacted with. These are often indicated by visual cues or captions suggesting interactivity.

Step 2: Hover over the Image

Tap the image you want to explore further. As you tap, pay attention to any changes in appearance or additional elements that appear.

Step 3: Enjoy the Popup

Upon hovering, a popup should gracefully emerge, providing you with additional details, a larger view, or more context about the image. Take your time to absorb the information presented.

Step 4: Close the Popup

To close the popup and return to the main content, tap the close button.

Pests & Diseases

Simplified Mobile-based Rice Crop Manager

Search

Kamahinungdanon. ANasayran na kung giunsa sa tanum nga humay makiglambigit sa biotic factors ug sa agroecosystem, ug saktong pag-ila sa mga peste ug pag-aplay ug mga estratehiya nga makaayo sa kinaiyahan ug makatabang nga malikayan ang pagkunhod sa abot. Mapa-usbaw usab nini ang taas ug kalidad nga lugas sa humay.

Walay pagkunhod sa abot tungod sa mga pesteng insekto, sakit, sagbot, ilaga, kohol ug mga langgam. Ang maong pagkunhod mahitabo kung usa o mas daghan mga peste ang makahamtang sa kadaot.

TAKE PHOTO

Para maila ang sakit sa humay, e click ang "Take Photo", unya picture ang dahon sa humay nga adunay sakit.

(Feature not available yet)

Mobile Image Processing Tutorial: Transforming Rice Health Assessment with Your Smartphone!

Harness the power of your mobile device to monitor the health of your rice plants through image processing. Follow this step-by-step tutorial for a seamless journey:

Step 1: Ready Your Mobile Device

Ensure your smartphone is equipped with a decent camera and has sufficient storage. Check for optimal battery levels before venturing into the fields.

Step 2: Choose a Clear Day

Pick a day with ample natural light for capturing clear images. Adequate lighting ensures better accuracy in disease identification during image processing.

Step 3: Frame Your Shot

Position your smartphone to capture the entire rice plant

or focus on specific areas showing potential symptoms. Keep the camera steady for crisp, detailed images.

Step 4: Snap the Photo

Capture a snapshot of the rice plant using your mobile device. Aim for well-focused images, as they form the foundation for the subsequent image processing analysis.

Step 5: Upload and Process

Once the image is captured, the app will automatically upload it for processing. This may take a few moments as the advanced algorithms work to identify potential diseases.

Step 6: Review the Results

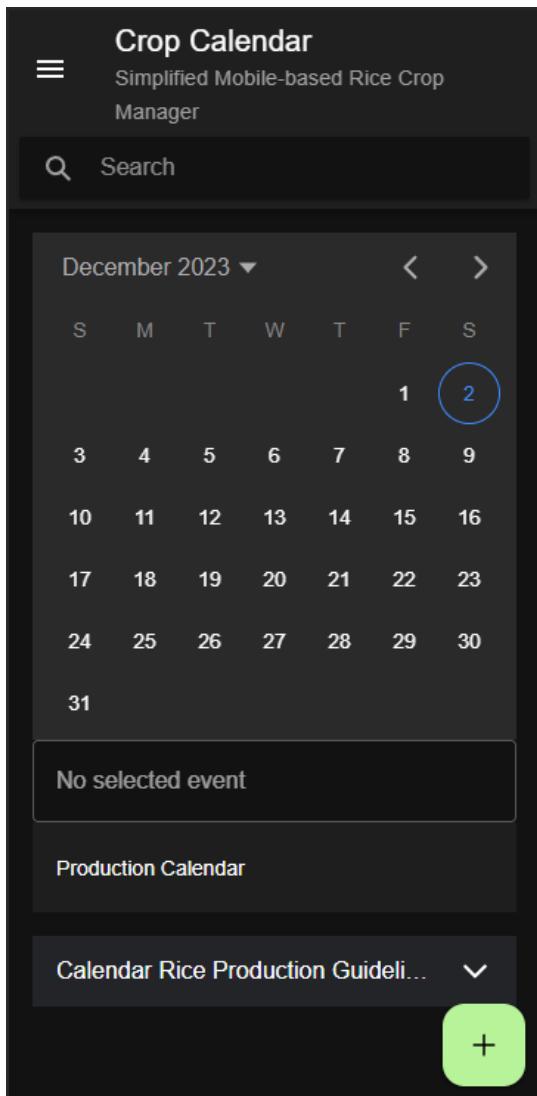
Explore the results provided by the app. The analysis may highlight specific areas or provide an overall health score for your rice plant.

Step 7: Interpret the Findings

Understand the app's diagnosis and any potential diseases identified. The app may offer additional information or recommendations for further action.

Step 8: Take Action

Based on the results, take informed actions to address any identified issues. The app may suggest specific treatments, adjustments to farming practices, or recommend seeking expert advice.



Crop Calendar Tutorial: Mastering the Rhythm of Rice Farming! 🌾📅

Creating a comprehensive crop calendar is essential for successful rice farming. Follow this step-by-step tutorial to craft a schedule that maximizes each stage of the farming journey:

Step 1: Identify Key Stages

Understand the critical stages in rice farming. These include land preparation, seedling preparation, broadcasting of seedlings, field preparation, transplanting, fertilizer application, monitoring, harvesting, and milling.

Step 2: Determine Growing Season

Identify the growing season in your region. This information is crucial for aligning your crop calendar with the climatic conditions best suited for rice cultivation.

Step 3: Establish Timeline for Land Preparation

Mark the period for land preparation on your calendar by clicking the floating add button. This involves clearing the field, plowing, and creating a suitable environment for rice cultivation.

Step 4: Seedling Preparation

Determine the time required for seedling preparation. This includes selecting and germinating seeds in a controlled environment before transplanting.

Step 5: Broadcasting of Seedlings

Allocate dates for broadcasting seedlings in the nursery. This step is vital for promoting healthy seedling growth before transplanting.

Step 6: Rice Field Preparation

Set aside time for preparing the main rice field. This involves leveling, bunding, and ensuring optimal conditions for transplanting.

Step 7: Transplanting of Pre-Germinated Seeds

Designate dates for transplanting pre-germinated seeds into the main rice field. Ensure this aligns with the ideal growth conditions for your region.

Step 8: Application of Fertilizers

Plan the application of fertilizers to coincide with specific growth stages. Consider soil testing results and crop requirements for precise fertilization.

Step 9: Monitoring

Create a routine for monitoring the health and progress of your rice crop. Regular checks help identify issues early and implement corrective measures.

Step 10: Harvesting

Pinpoint the optimal time for harvesting, considering factors like grain maturity, weather conditions, and market demands.

Step 11: Milling

Allocate time for milling, the process of removing the husk and preparing rice for consumption. Factor in post-harvest activities to complete the farming cycle.

Pro Tips:

Local Variations: Be aware of any local variations in climate or agricultural practices that may impact your crop calendar.

Record Keeping: Maintain a detailed record of activities and observations throughout the growing season for future reference and continuous improvement.

By creating a well-defined crop calendar, you'll orchestrate your rice farming operations with precision, ensuring a harmonious and successful harvest. Happy planning! 🌾📅筻