

EXPANDED VULNERABILITY AND SUITABILITY ANALYSIS (EVSA) TOOL USERS' GUIDE

The Expanded Vulnerability and Suitability Analysis (EVSA) application is a Decision Support Tool (DST) within the DA PRDP Planners Portal that enables users to conduct comprehensive analyses for agricultural planning. This step-by-step guide aims to assist users in accessing and effectively utilizing the EVSA application. From downloading the offline installer to generating rankings and visualizing data on a map, this guide provides a narrative walkthrough of the entire process.

1. Accessing and Installing EVSA

To begin, navigate to the DA PRDP Planners Portal website (<https://www.daprdp-plannersportal.net>) and locate the online and offline applications for EVSA. For offline access, download the EVSA offline installer by scrolling to the bottom of the webpage and clicking on the offline version link. Once downloaded, locate the installer file and double-click on "eVSA_winApp.msi" to initiate the installation process. Please note that the current installer is for Windows only, with a Mac version under development. Wait for the installation to complete.

2. Navigating the EVSA User Interface

After installation, open the EVSA Win App. The application interface consists of three tabs: "Previous Analysis," "New Analysis," and "Logout." Familiarize yourself with these tabs as they will be used throughout the analysis process.

3. Creating a New Analysis

In the "New Analysis" tab, enter a filename for the analysis. For example, you can use "La Union-Mango" to represent the vulnerability and suitability analysis for mango production in La Union. Click "Create" and then "OK" to save the filename.

4. EVSA Parameters and Weight Assignment

In the new analysis, the first step is the Vulnerability and Suitability Analysis (VSA). Select the appropriate AES (Agricultural Extension Services) group for the commodity, in this case, AES7 for mango. Assign a weight of 0.5 to the VSA. Next, determine the scope of analysis by selecting the region and province, such as Ilocos Region (Region 1) and La Union.

5. Socio-economic Parameters and Weight Assignment

For the EVSA part of the analysis, select socio-economic parameters that are relevant to the analysis, such as poverty incidence and the production area of mango in La Union. Input the corresponding weights (e.g., 0.25 for each parameter). Define the prioritization by selecting positive or negative correlation based on the desired prioritization criteria. Add new parameters if necessary. Save the parameter inputs when completed.

6. Saving and Viewing Analysis Results

In the EVSA app, you will see the region, province, municipalities, and composite index in the VSA section. The poverty incidence data will be automatically populated, while the production area of mango requires manual input. Save the data when finished. The application will generate rankings based on the VSA and socio-economic parameters.

7. Visualizing Data on the Map

Export the ranking results as a CSV file for inclusion in reports. Open the downloaded file to view the geocode, region, province, municipality, poverty incidence index, mango production area, and the old and new composite indices and ranks. Return to the EVSA app and click on "View Map." Wait for the map to load. The municipalities in La Union will be displayed in different shades of green, indicating their ranking. Customize the color scheme as desired.

8. Accessing Previous Analyses

To access previous analyses, use the "Previous Analysis" tab. Here, you can view the maps and municipality rankings from past analyses. Note that parameters cannot be edited in previous analyses, but the map and rankings can still be observed. For new parameters or updated data for the predefined parameter, you need to create a new analysis.

You may want to access the video tutorial [here](#).