

# LUMPY SKIN DISEASE VACCINATION PROGRESS DASHBOARD

## USER GUIDE

National Centre for Animal Health  
Department of Livestock  
Ministry of Agriculture and Livestock

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### Introduction

The Lumpy Skin Disease Vaccination Progress Dashboard is a comprehensive tool designed to offer both descriptive analysis and visual representation of the Lumpy Skin Disease (LSD) vaccination data. This data is sourced from the "LSD VACCINATION\_BHUTAN\_2023" project within the Epicollect5 platform. The dashboard's primary purpose is to present an overview of the national vaccination program's progress. Moreover, the dashboard boasts interactivity, allowing users to filter and examine vaccination progress at the Dzongkhag level by selecting specific Dzongkhag names.

### Scope

This dashboard serves as a crucial resource for daily monitoring of the vaccination progress across multiple levels: National, Regional, and Dzongkhag. By aggregating data from vaccinators stationed throughout the country, it provides insights into the ongoing vaccination efforts and their impact.

### Features

- **At-a-Glance Overview:** The dashboard's central feature is its ability to provide an immediate snapshot of the national vaccination program's progress. Users can quickly gauge the extent of the program's coverage.
- **Interactive Filtering:** Users have the option to interactively filter the displayed data. By selecting specific Dzongkhag names, users can delve into the vaccination progress at a more localized level.
- **Periodic Updates:** While real-time data entry isn't always feasible due to factors such as remote herd locations or limited mobile network access, the dashboard is designed to reflect updates once vaccinators upload their data from areas with proper internet connectivity and electricity and the administrator (NCAH) update the dashboard.
- **Granular Data Access:** While the dashboard presents a summarized view of the vaccination progress, access to the detailed data is also provided. National, Regional, and Dzongkhag agency heads have been granted access to the Epicollect5 database's

web version. This facilitates data extraction in CSV format, enabling in-depth analysis based on specific requirements.

## Limitations

- **Real-time Constraints:** In situations where vaccinators operate in remote or geographically challenging areas (e.g., mountains), real-time data entry using the mobile application may not always be possible. Factors like unavailable mobile networks, limited phone battery, or high livestock population density can contribute to these constraints.
- **Delayed Information:** Due to the aforementioned limitations, the progress dashboard might not immediately reflect the precise number of vaccinated animals at a given point in time. However, once data is uploaded following connectivity and power availability, the dashboard will subsequently incorporate the updated information.

## Dashboard Access

To access the dashboard, click this [LINK](#) or visit the LSD vaccination program page on NCAH web page ([LSD Vaccination Program 2023](#)) and click on LSD Vaccination Progress Dashboard to open and view the dashboard (Figure 1).

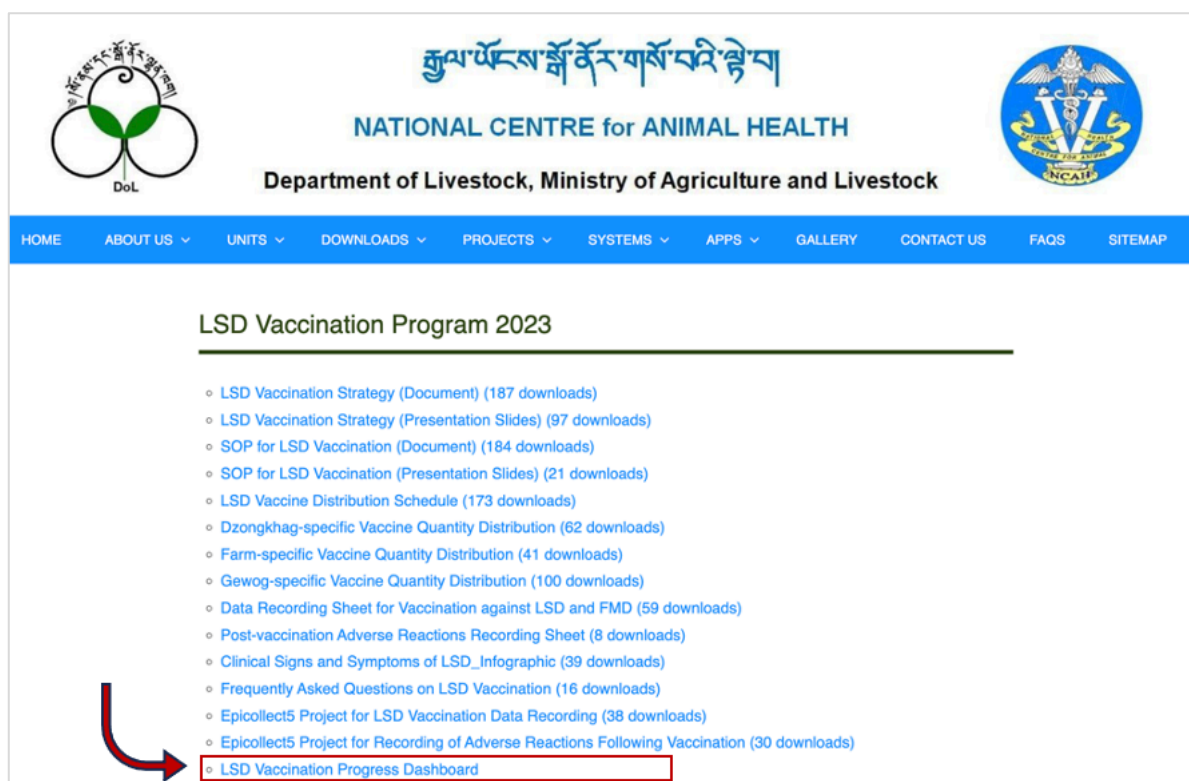


Figure 1: Dashboard access link

## The Dashboard

The following figure shows the available features of the dashboard.

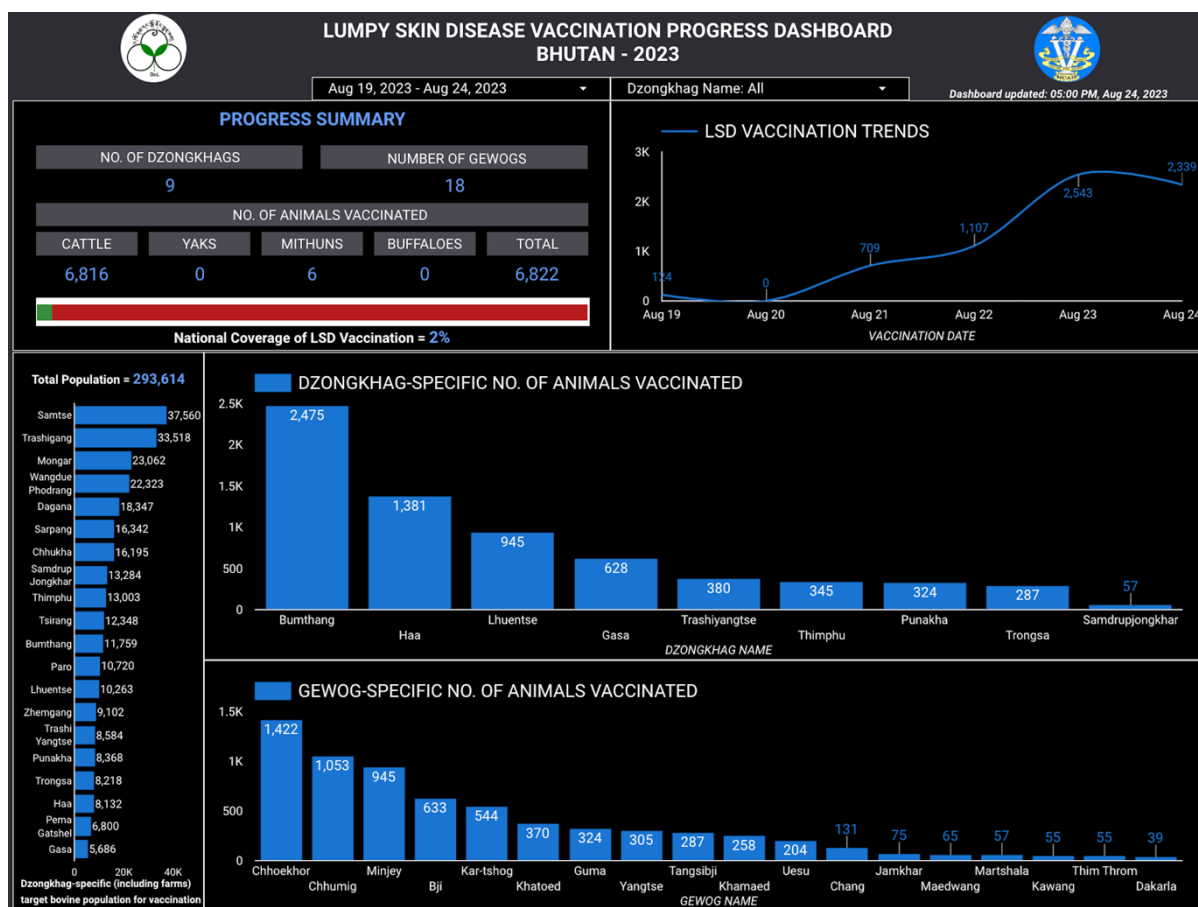


Figure 2: Dashboard template

This dashboard shows the national progress of the LSD vaccination program. In order to view the dashboard for a given Dzongkhag, select DATE RANGE and DZONGKHAG NAME to apply the filter across the dashboard.

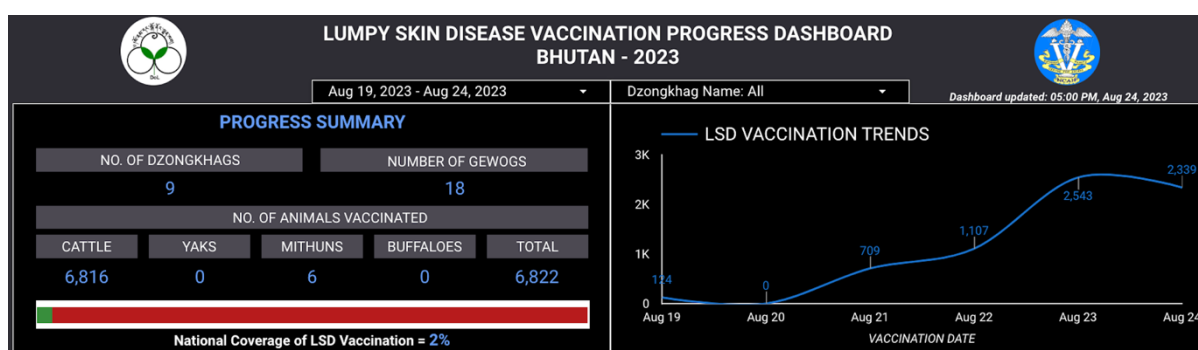


Figure 3: Showing date range and Dzongkhag selection fields

The progress summary section, following the applied filters, provides users with a comprehensive overview of the vaccination program's status. This includes insights into the number of active Dzongkhags and Gewogs involved in the program, as well as a detailed

breakdown of the total vaccinated animals categorized by animal type. It also displays the overall coverage of the vaccination program.

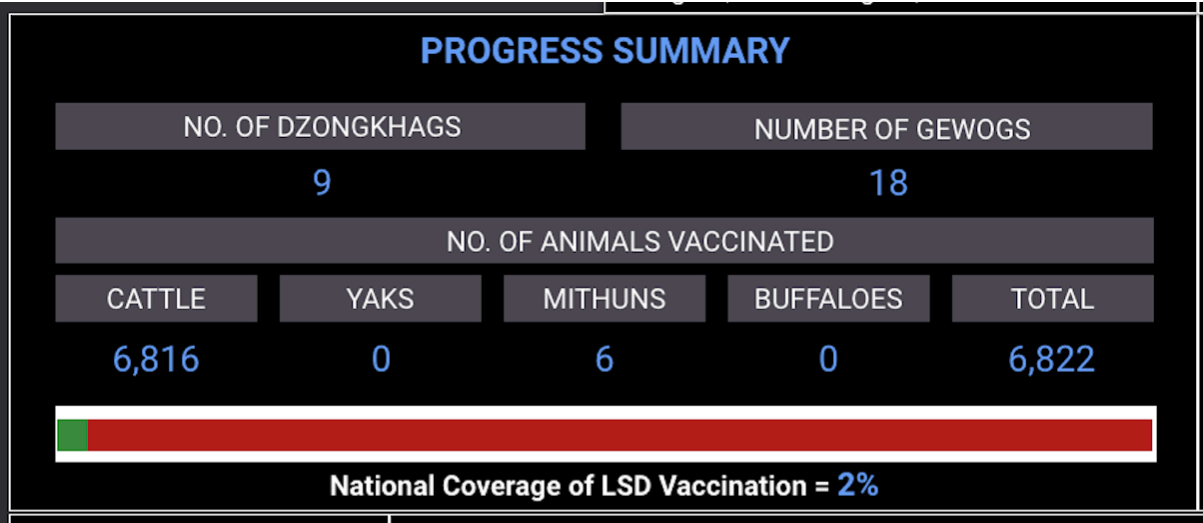


Figure 4: Progress summary section

The LSD vaccination trends section of the dashboard displays the temporal distribution of the number of eligible animals vaccinated, based on the selected filters.

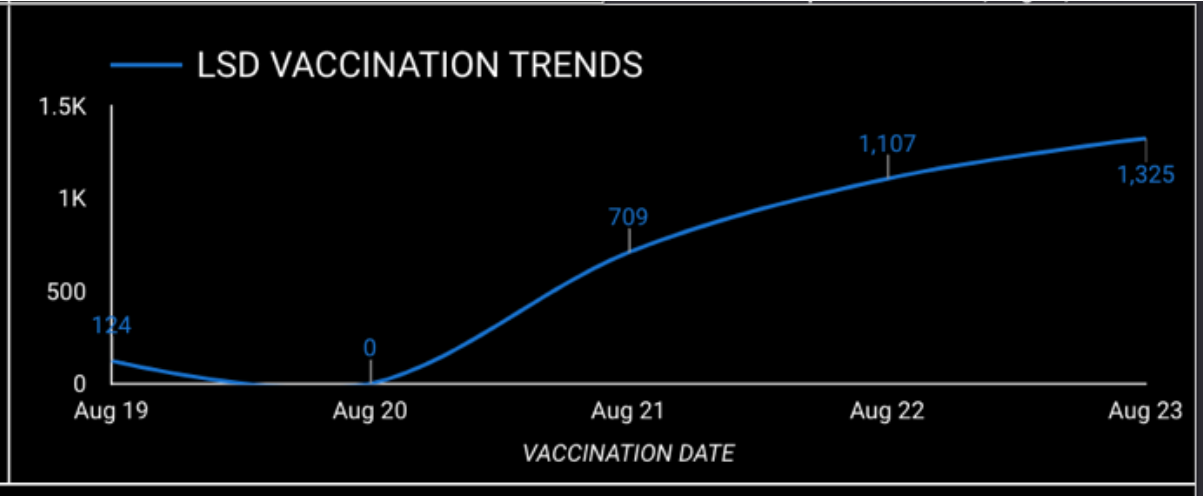


Figure 5: LSD vaccination trends section

Figure 6 shows a visual representation of the number of animals that have been successfully vaccinated against Lumpy Skin Disease (LSD) at both the Dzongkhag and Gewog levels, thus allowing users to discern the vaccination progress in specific jurisdictions as per the filter applied in figure 3.

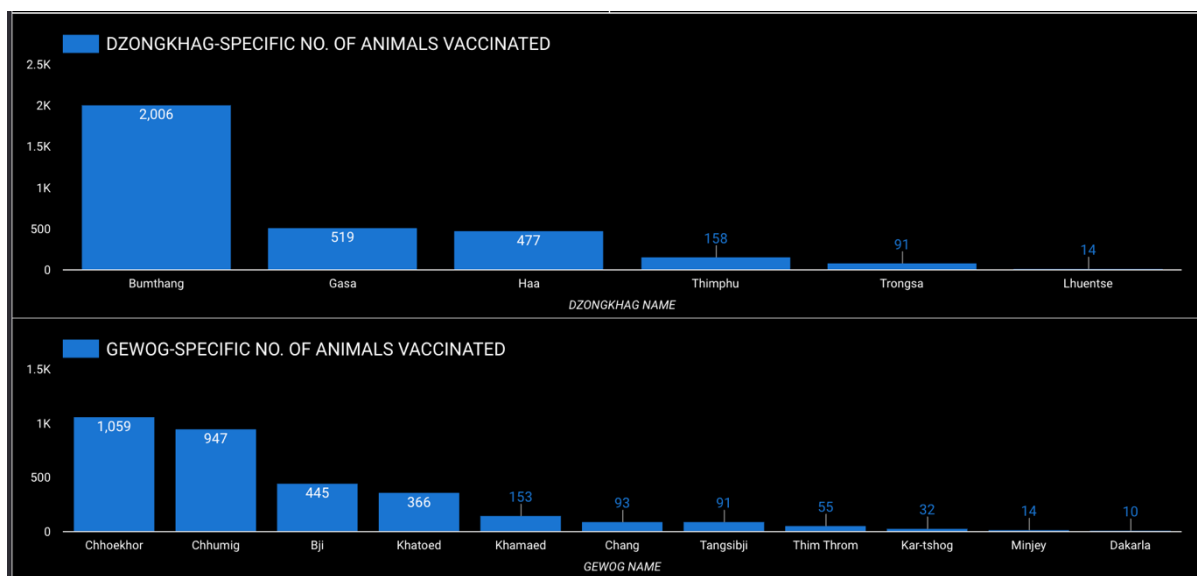


Figure 6: Dzongkhag and Gewog-specific no. of animals vaccinated

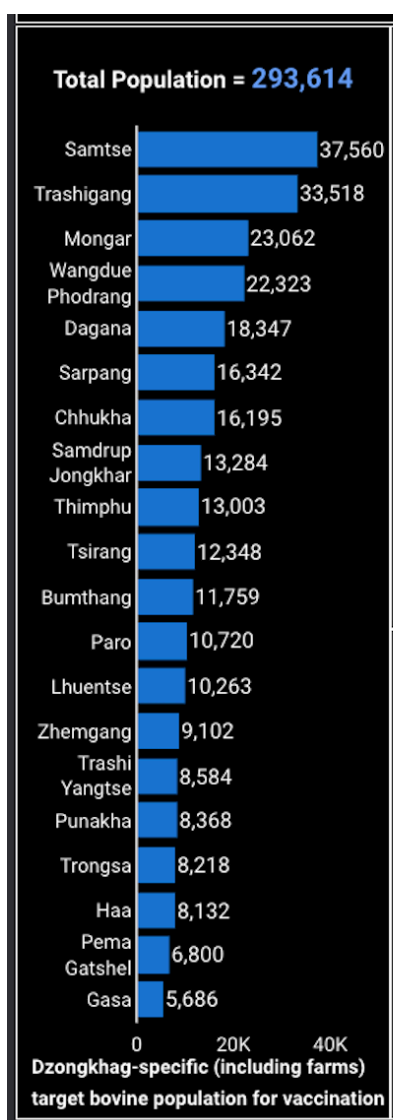


Figure 7 shows the total population of Cattle, Yaks, Buffaloes and Mithuns in each Dzongkhag. No. of these bovines in the government farms are included in the Dzongkhag's figure based on the location of the farm.

Figure 7: Bovine population