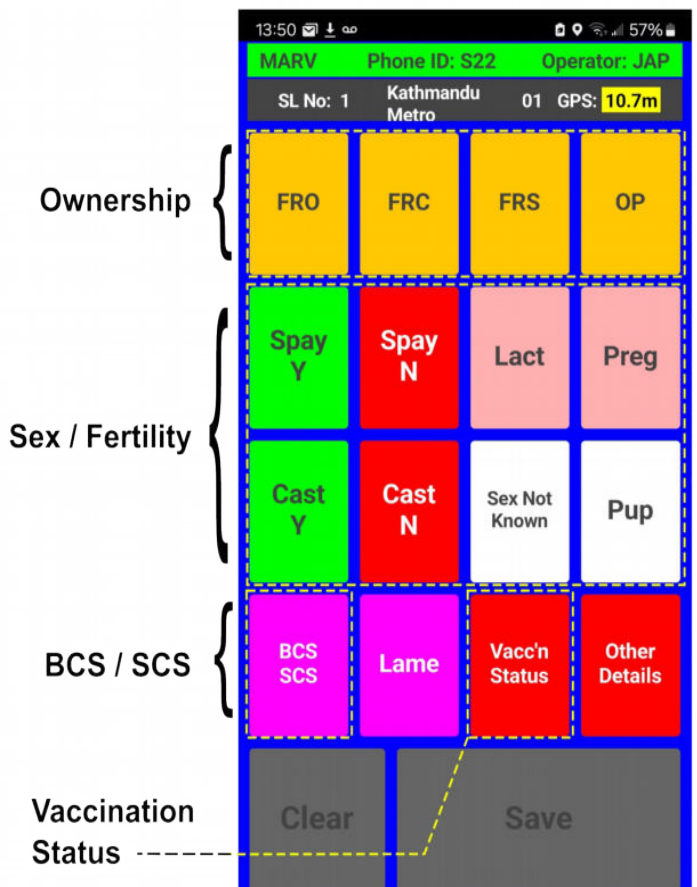


DogData MARV App

Instruction Sheet

1. Obtain a phone with an Android operating system. Ensure phone is fully charged.
2. Download the installation file to your phone[s] from the link provided and then follow your phone's instructions to install. As not downloaded from the Google PlayStore, your phone may require your additional permission to install.
3. Once the app is installed:
 - Allow all permissions (Location/Storage/Photo/etc)
 - Set a 3 character PhoneID
 - Set a 3 character OperatorID
 - Select the initial District > Municipality > Ward number
4. Note the GPS box at the top right of the screen. If it says **Searching** on a red background then a GPS fix has NOT been obtained and so a position cannot be recorded and the dog locations will not be shown on a map. An initial fix can take a while but will be quicker if outdoors and not shaded by buildings/trees/etc. A lower number indicates a more accurate fix and a green background indicates a location accuracy of better than 10 metres.
5. Decide which route will be followed for the work for the day. This may be along one street or it may cover a series of blocks. Please remember to change the District > Municipality > Ward if necessary. If you wish to change only the Ward use the green **Ward** button.
6. When a dog is seen, select one from each of the Ownership, Sex/Fertility, BCS/SCS, and Vaccination Status categories
7. The abbreviations are:

- FRO** = Free roaming owned
FRC = Free roaming community
FRS = Free roaming stray (An animal that locals do not recognise or claim)
OP = Owned pedigree
- Spay Y** = Female spayed
Spay N = Female not spayed
Lact = Female lactating
Preg = Female pregnant
- Cast Y** = Male castrated
Cast N = Male not castrated
Not known = Sex/fertility not determined
Pup = Pup (Male/Female/Unknown)



BCS = body condition score. Judge the animal's nourishment status on a score of 1 to 5 and press the most suitable score:

1= Emaciated

2=Thin

3=Moderate

4=Stout

5-Obese

SCS = skin condition score:

1=Normal

2=Mild

3=Moderate

4=Severe

Vacc'n Details = Vaccination status

1. Vaccinated & marked (All dogs should be marked by crayon or similar to demonstrate vaccination)
2. Vaccinated not marked
3. Already vaccinated (as evidenced by, eg, a valid vaccination card)
4. Missed or escaped (dog not caught or escaped before vaccination). This category is excluded from all estimated population size and vaccination coverage percentage calculations.
5. Vaccinated & ABC (dog has been vaccinated and sterilised)

8. If the animal is lame press **Lame**

9. Use the **Other Details** button to record one or more of the following:

- ARV card issued
- Ivermectin treatment given
- Other treatment given

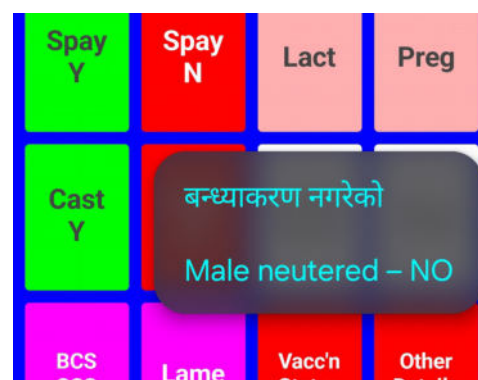
❖ Press **Done** once finished

10. If any of the entries are incorrect press **Clear** and start again

11. If all the entries are correct press **Save**

The Save button is enabled only when a selection has been made from each of the Ownership, Sex/Fertility, BCS/SCS, and Vacc'n Status sections

12. A **LONG** press on any of the main screen buttons will display a popup with brief description of the button function in Nepali and English – as illustrated on the right. The popup will automatically disappear after 2 seconds.



13. In order to avoid the risk of data loss due to failure or loss of the phone we recommend that the new data is uploaded to the central server as soon as possible – ideally at the end of the MARV each day if an internet connection is available.

- If there is new data to upload the **Upload to Database** button will be coloured orange
- After a successful upload you will receive the message “MARV records uploaded”

14. At any time you may generate a .zip file containing the .csv records and any relevant photos and audio recordings from the phone and email the .zip to your chosen destination by using the yellow **Export Text/Photos/Audio Files** button.

15. If an internet connection is available the current Municipality and Ward position can be checked using the green **Check Municipality-Ward** button, as illustrated on the right. In this example it shows the current location as Bharatpur Metro, Ward 12.

16. The MARV app has the facility to **optionally conduct**, in effect, a mark-resight census in order to estimate the actual dog population within a Ward. The same area as was just vaccinated on 'Day 1' should be revisited and the Marked/Unmarked dogs recorded.

To do this click the **Day 2 MARV Census** button and then the **Marked** or **Not Marked** button as appropriate.

Please note it is essential that the 'Day 2' revisit takes place soon after the vaccinations were given to ensure that the dogs' markings remain clearly visible.

The number of dogs counted in the 'Day 2' process would normally be similar to the number vaccinated on 'Day 1'.

Close and then reopen the app and upload these MARV Census records by using the orange **Upload to Database** button.

If there are no further records awaiting upload then this button will be disabled and coloured grey.

17. Once uploaded, the **Ward Pop'n Stats** button can be used to display a summary of the records for the specified Ward, as shown. Note these are summaries of the records uploaded from all phones.

18. In the example screen (right), it is calculated that the percentage of the estimated population within this Ward which has been vaccinated is 68.8% and the app therefore shows that an additional 2 unmarked dogs should be vaccinated to reach the recommended 70% minimum.

To do this, the **Day 3 Extra Vacc's** button should be pressed and then the extra vaccinations recorded as normal. This will ensure that these additional records are accounted for correctly in the population estimate calculation.

