

# Remote monitoring traps with sensor technology

Trap.nz enables trappers to remotely monitor devices (traps, bait stations etc) using sensors from a growing number of providers. For the trapper on the ground this means a heads up of sensors events in the app, and opt-in notifications via the app and email.

For project coordinators it offers an overview of all sensor devices across one or more projects. This provides not only trap status, but also early incursion warning, accountability for funders, and the social benefits of knowing when to start the k?rero with trappers.

All sensor statuses are viewable in the [Trap.nz sensor reports](#) - all your sensor providers data in one place.

Please [contact us](#) to become a sensor service provider.

## How it works

### Remote Monitoring

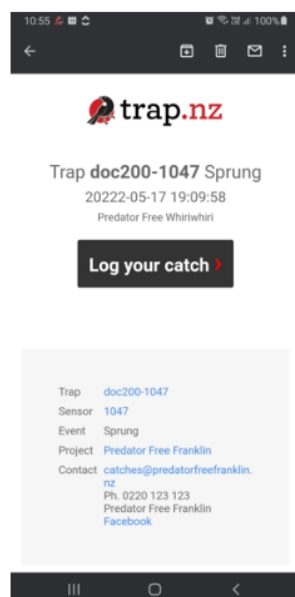


Sensor service providers

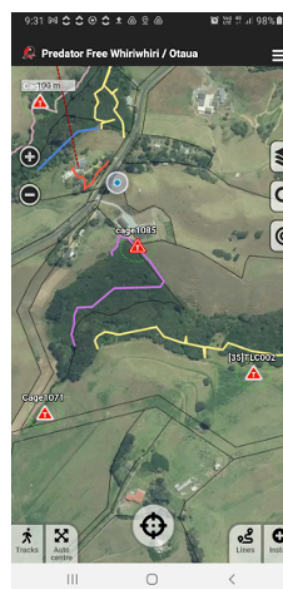


Other

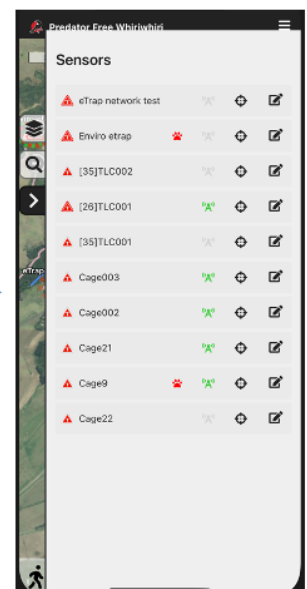
Emailed alerts



In app - location



In app – sensor list



In New Zealand, it is a legal requirement under the [Animal Welfare Act 1999](#) that all live capture traps must be checked within 24 hours. Breaches are punishable by up to 12 months imprisonment and a fine of up to \$50,000 for an individual or \$250,000 for a body corporate.

Trap.nz enables trappers to remotely monitor devices (traps, bait stations, etc.) using sensors from a growing number of providers. For the trapper on the ground, this means a heads-up of sensor events in the app and notifications via the app and email.

For project administrators, it offers an overview of all sensor devices across one or more projects. This provides not only trap status, but also early incursion warning, accountability for funders, and the social benefits of knowing when to start the kōrero with trappers.

## Adding a sensor to a trap via the website

1. Through the Projects page select **traps**, - **add a new trap**
2. Complete the required fields

The screenshot shows the 'Create Trap' form on the trap.nz website. The form is divided into several sections:

- Trap number / code \***: A text input field.
- Location \***: A map showing a forested area with several traps marked. A dashed line indicates a trap line. Below the map is a 'Find using Manual coordinates field' button and a 'Manual coordinates' text input field.
- Date installed \***: A date picker showing '4 Aug 2022'.
- Installed by**: A text input field.
- Trap type \***: A dropdown menu with '- Select a value -'.
- Double trap?**: A checkbox.
- Trap sub type**: A text input field.
- Trap line**: A dropdown menu with '- None -'.
- Retired**: A checkbox with a note: 'Check this box if the trap is no longer used (or moved to a different area). The trap will be removed from most displays but historical data will be retained.'
- More**: A tab at the bottom of the form.

4. Under the map open **more** tab and complete the sensor data, required contact fields, and select save

Add a new trap
Add catches
Import traps
Import trap records
Manage traps
Manage trap records

100 m

Find using Manual coordinates field

Manual coordinates

More

Tags

Optionally tag your installation - e.g. with a property name. Tags will be lowercased.

Notes

Images

Upload photos of the trap for reference

Add a new file

Choose File No file chosen

Upload

Files must be less than 32 MB.  
Allowed file types: png,gif,jpg,jpeg.

Sensor

Sensor provider

Sensor ID

☒ Send meta data about this trap to my sensor provider?

Contact details

Name

Address

Email

Phone

Save

Cancel

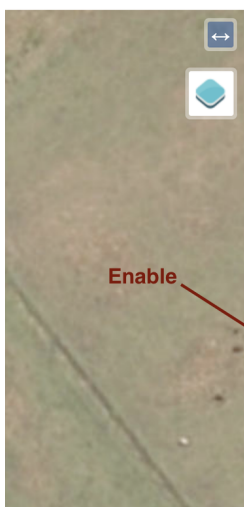
## Notifications


1. Turn on notifications on both the **My Account > Edit** page and against each trap

☒ Send me email alerts for sensor traps I'm subscribed to

This setting is a master switch to turn off all notifications for sensor traps. With this setting enabled you will only receive email alerts for traps with automated sensors that you are individually subscribed to (nc default). With this setting disabled you will not receive any notifications for sensor traps you are subscribed to.

2. Enable notifications for each trap



**Trap type:** Smart Cage  
**Date installed:** 22 Jun 2022  
**Installed by:** Joe Trapper  
**Total kills:** 4  
**Images:**  
  
**Sensor ID:** 1074  
**Sensor provider:** wheronet  
**Lat:** -37.31356333577  
**Lon:** 174.695726158220

☒ Alert me of sensor events!

Add a supplementary trap

Add a new trap record

If the trap is a live capture trap (is a cage or smart cage and has sensors set), they will get a variation of this message.

2 trappers are receiving notifications for this live capture trap.

It is important to have established who has primary responsibility for checking this live capture trap. Ensure at least one trapper checks either this page or the Trap.NZ app daily.

Please ensure you are aware of the animal welfare rules, and the limitations of remote monitoring.

Select Users to assign \*

Assign Users

Name	Email		Alert of sensor events
lenore	lenore.winterburn@groundtruth.co.nz	Administrator	<input checked="" type="checkbox"/> Enabled
lenore-admin	lenore.winterburn+admin@groundtruth.co.nz	Administrator	<input checked="" type="checkbox"/> Enabled
cmonson	cmonson@doc.govt.nz	Manager	<input type="checkbox"/> Disabled

Show 2 more users who may access this station ▼

All managers and admins (anyone who can add a trap record or edit the installation) are shown to be notified . We only show the first three and the user can expand to see the rest  
If the trap has sensors then admins will now be able to see who is getting notifications and uncheck / check them.

***If a trap is saved or added and it is a live capture cage (cage with sensors) then we will automatically subscribe whoever made the change to the trap if there is no one assigned yet***

## Servicing a sensor trap


When a sensor has triggered, the trap.nz notification system will send an email and message to the trap.nz app. **Do not rely on these notifications for legal coverage, trappers must still check the status of all sensor traps via the app or website.** This ensures that sensors that are not responding are detected, and it covers the scenario when the notifications fail due to network outages, spam filters, etc.

1. The sensor is triggered and the sensor provider sends an email and message via the trap.nz App

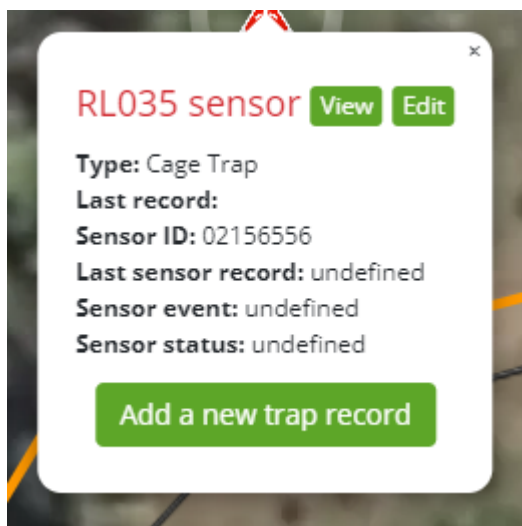


## The new trap icons

To align with trap.nz mobile phone app the icons have been changed to

trap	
Sensor trap - active	
Sensor trap - active & sprung	
Sensor trap - inactive	

By selecting the installation you are able to see its current status.



All sensor statuses are viewable in the [Trap.nz sensor reports](#).

Please contact us to become a sensor service provider.

Also see this document on checking your sensor traps

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