


Notes on Data from Coconut Rhinoceros Beetle Tree Damage Surveys

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- Data were collected using Android cell phones and the EpiCollect Plus app (<http://www.epicollect.net/>).
 - A custom EpiCollect Plus project data form was used (Fig. 1).
 - Observations were uploaded into an online database at the end of each day (Fig. 2).
 - At the end of the project, all observations were downloaded in comma separated values (CSV) format (**crb_tree_inspection.csv**).
- QGIS (<http://www.qgis.org/en/site/>) was used visualize survey results (Figs. 4 and 5).
 - All GIS data used in generating maps are available in the folder **aafb-gis3**.


[Create Project](#)
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[Home](#) > [Project : crb_tree_inspection](#) > [Form Builder](#)

Save Project

crb_tree_inspection

Add a form

Text fields

Text

Abc

Numeric

123

Date

Time

Drop-down list

Option One

Option Two

Radio Buttons

☐ Option One

☐ Option Two

Check boxes

☒ Option One

☒ Option Two

Multi-line Text

Abc

Media fields

Links with other forms

Form : Drag fields from the column on the left into this column

crb_tree_inspection

ID: crb_tree_inspection_key

date (MM/dd/yyyy)

ID: ecplus_crb_tree_inspection_ctr13

time (HH:mm:ss - 24 hours)

ID: ecplus_crb_tree_inspection_ctr12

location

ID: ecplus_crb_tree_inspection_ctr14

photo

ID: ecplus_crb_tree_inspection_ctr15

type of palm

ID: ecplus_crb_tree_inspection_ctr16

single tree or group of trees

ID: ecplus_crb_tree_inspection_ctr19

CRB damage

ID: ecplus_crb_tree_inspection_ctr17

notes

ID: ecplus_crb_tree_inspection_ctr18

Project Validation

Project Valid


This project has no errors.

0 of 0

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Figure 1: EpiCollect Plus custom data form.


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 Form : crb_tree_inspection

crb_tree_inspection - crb_tree_inspection

Table View
Map

Filter List By
crb_tree_inspection

Clear Filter
Show/Hide Fields
Download
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Time Created	crb_tree_inspection	date	time	location	photo	type of palm	single tree or group of trees	CRB damage	notes
19 Feb 2015 00:18:57	67cb4f01-848a-42e0-95e9-eaf33277fe70	02/19/2015	10:15:58	13.4306003, 144.8009441 Show Details		coconut	single	one or more of youngest 4 fronds damaged, 1 or more older fronds damaged, bore hole(s) visible	Tree damage at uog/pesticide being applied
19 Feb 2015 00:21:05	941a088a-cde7-4b5f-a49f-77134f6b424f	02/19/2015	10:19:20	13.4305506, 144.8009299 Show Details		coconut	single	one or more of youngest 4 fronds damaged, 1 or more older fronds damaged, bore hole(s) visible	Tree damage at uog/pesticide being applied
19 Feb 2015 03:40:11	4ebd0699-2e55-47c-aedd-7165089f7922	02/19/2015	13:35:18	13.5693031, 144.9184816 Show Details		coconut	group	one or more of youngest 4 fronds damaged	One tree has four months old damage.....
								one or more of youngest	

Figure 2: View of online EpiCollect database.

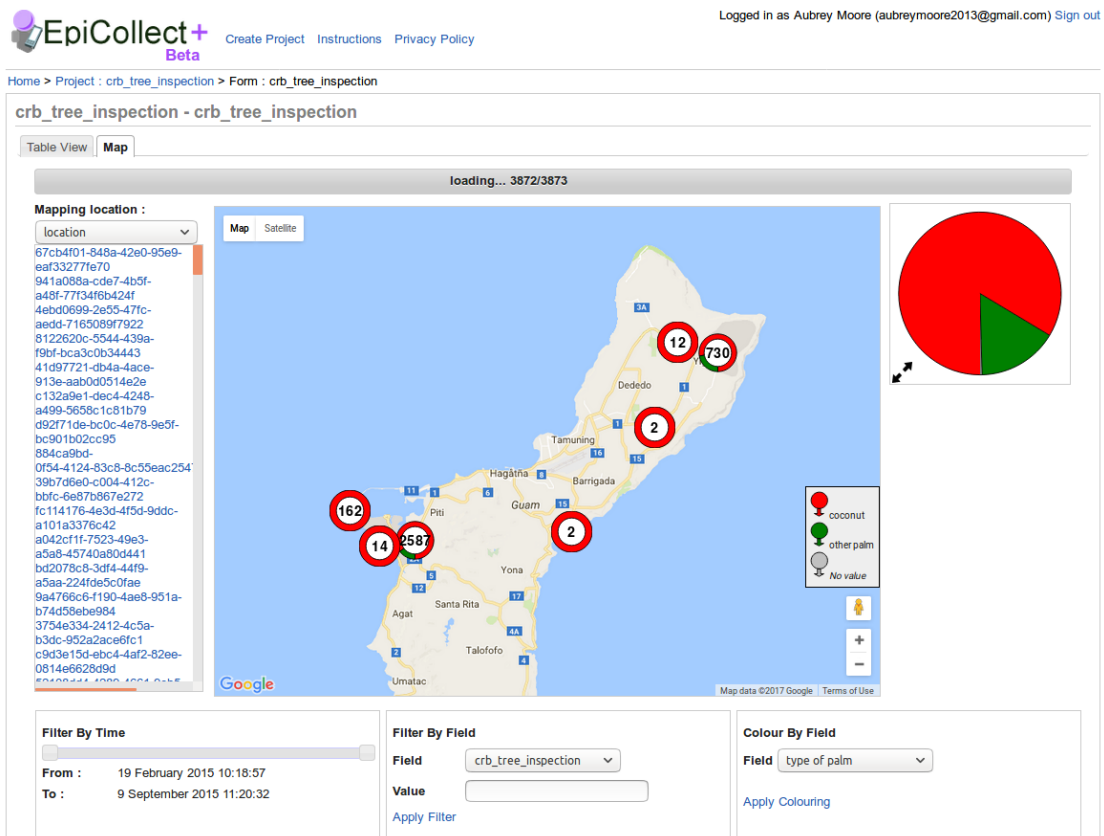


Figure 3: Graphical summary of data.

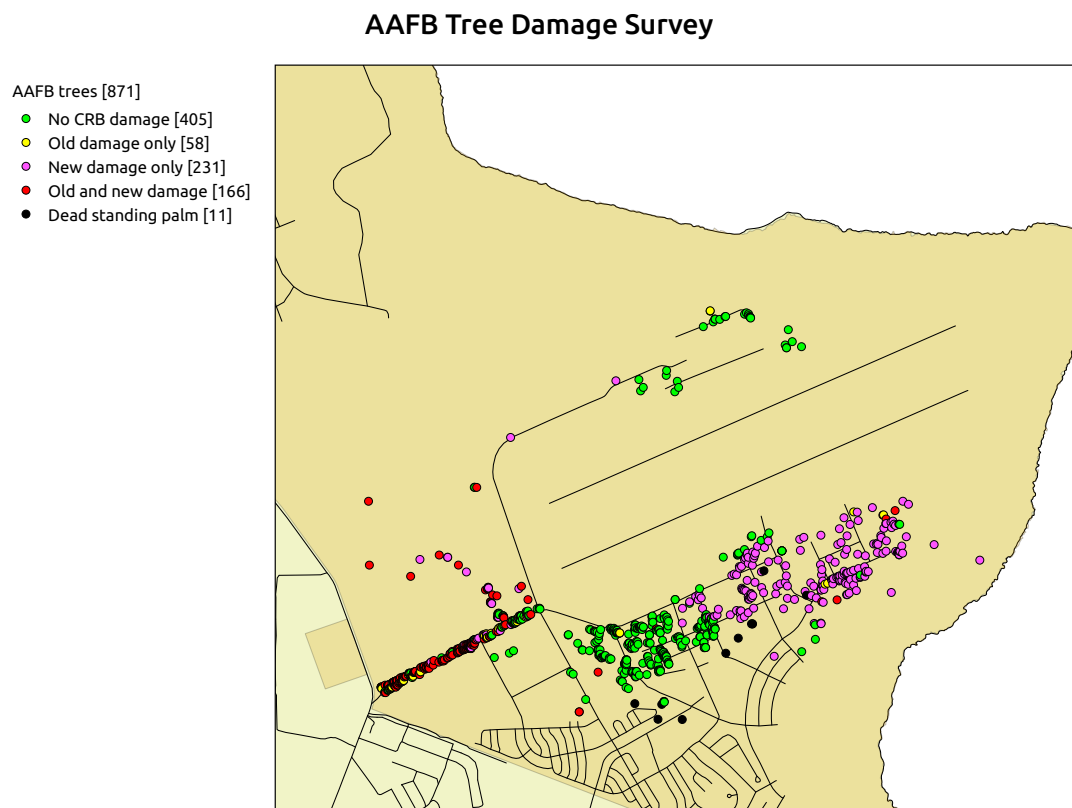


Figure 4: Visualization of surveys results from Andersen Air Force Base.

Navy Coconut Rhinoceros Beetle damage Survey July 2015

Legend

Navy-trees [2747]

- No CRB damage [1814]
- Old damage only [126]
- New damage only [329]
- Old and new damage [475]
- Dead standing palm [3]

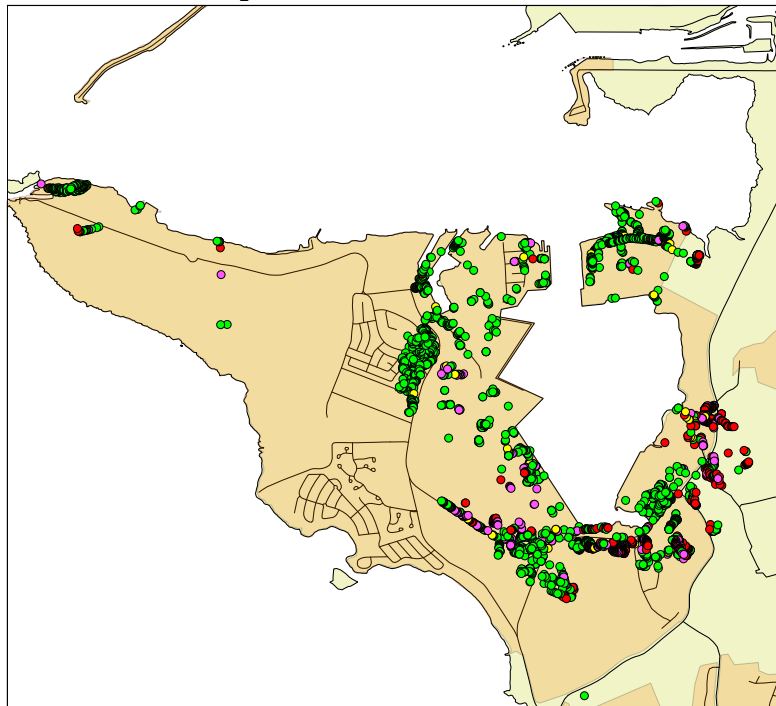


Figure 5: Visualization of survey results from Big Navy.