



AAVS & WOAH
Vet Education Session

VETERINARY ROLES IN DISASTERS:
Bridging Education and Emergency Action

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Postgraduate Course in Advanced Animal Welfare







### International Training on Cage Free Innovation and Welfare Hub



# VOLCANOES IN THE PHILIPPINES

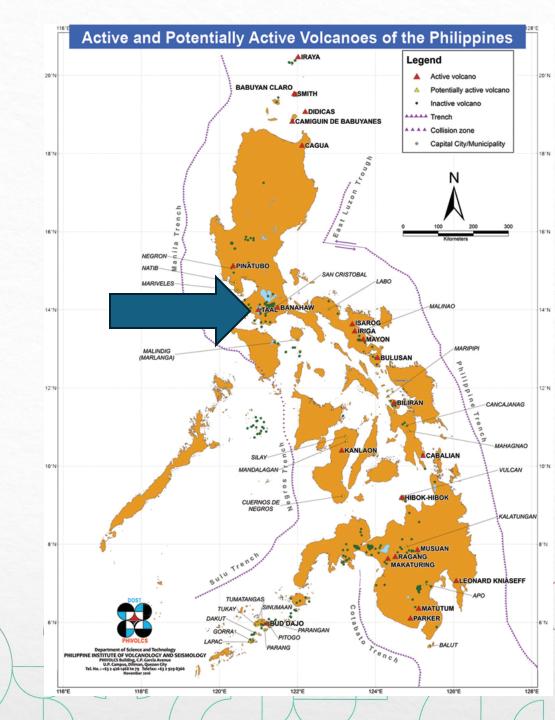
Active volcanoes: 24

(erupted within the last 600 years)

Luzon: 13 (Bulusan, Mayon, Taal...)

Visayas: 3

Mindanao: 8





A total of ₱3,215,788,882.00 worth of damage to agriculture was incurred in the provinces of Batangas, Laguna and Cavite (CALABARZON).

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REGION/ PROVINCE	CORN	HVC	RICE	FISHERIES	LIVESTOCK	TOTAL COST	
TOTAL	₱88,937,300.00	P1,394,857,909.00	₱5,655,840.00	P1,600,000,000.00	P126,337,833.00	₱3,215,788,882.00	
CALABARZON	₱88,937,300.00	P1,394,857,909.00	₱5,655,840.00	P1,600,000,000.00	₱126,337,833.00	P3,215,788,882.00	
Batangas	₱88,584,500.00	P341,058,927.00	₱4,600,000.00	P1,600,000,000.00	₱126,272,833.00	P2,160,516,260.00	
Cavite	P352,800.00	P1,023,134,150.00	₱1,026,200.00	-	₱65,000.00	P1,024,578,150.00	
Laguna	1/2	₱30,664,832.00	P29,640.00	-	S#3	P30,694,472.00	
C D	Annual of Annual	D. //- L/- A/- A7					

Source: Department of Agriculture Bulletin No. 07 as of 19 January 2020, 5:00 PM

# PROVINCIAL VETERINARY OFFICE AS LEAD AGENCY

Livestock and Companion Animal Rescue Strategy

**Incident Command Center** 

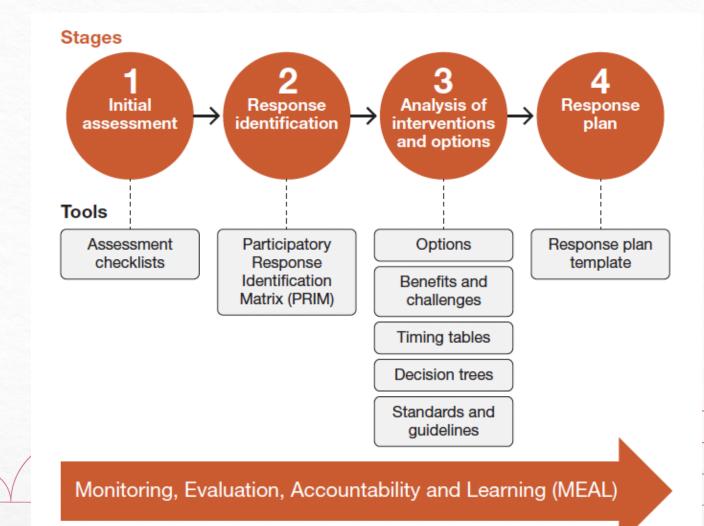




#### Livestock Emergency Guidelines and Standards

Third edition







#### Livestock Emergency Guidelines and Standards

Third edition



## **Three Livelihood Objectives**

01

Obtain immediate benefits using existing assets; and/or

02

Protect key livestock assets; and/or

03

Rebuild key livestock assets.

livestock-emergency.net

## **EMERGENCY**

(As defined by LEGS): situations in which a hazard or threat is beyond the capacity of the affected community to cope

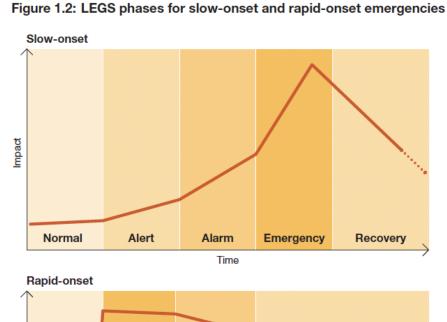
\*Poor communities: tend to be less well prepared, less resilient, have lower coping capacity

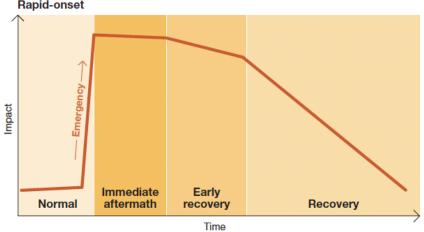


## **EMERGENCY TYPES and PHASES**

#### **LEGS EMERGENCY TYPES:**

- 1. Slow-onset: e.g. drought, severe winter
- 2. Rapid-onset: e.g. flood, earthquake, volcanic eruption, storm (hurricane, typhoon, cyclone), wildfires, animal or plant pests and diseases
- 3. Complex emergency: e.g. conflicts, crises, disease outbreaks or pandemic





# IMPACT of EMERGENCIES on LIVESTOCK and COMMUNITIES



Table 1.3: How emergencies impact animals and livestock-keeping communities

Emergency type	How it can affect livestock and communities				
Slow-onset emergency	Animal body condition deteriorates progressively.				
	Market prices for animals go down, while prices for human food go up.				
	The cost of inputs like animal feed increases.				
	Human food security and nutrition gradually worsen.				
	As the emergency progresses, more animals die.				
	If core breeding animals die, post-emergency recovery is hindered.				
Rapid-onset	There is rapid livestock (and human) mortality in the initial event.				
emergency	There is damage to infrastructure (like roads and livestock shelters) and services (such as veterinary services), as well as potential disruption to livestock feed and water supplies.				
	People are displaced and perhaps separated from their animals.  Where there is a lack of response support, further consequences can occur, such as more livestock deaths or disease.				



#### LEGS TECHNICAL INTERVENTIONS

- 1 Livestock feed
  - Water
    - **Veterinary support**
    - 4 Shelter and settlement
  - 5 Livestock offtake
- 6 Provision of livestock

#### **VETERINARY SUPPORT**

Figure 3.5: PRIM sample A. Rapid-onset emergency – an earthquake in Asia

	Scoring aga livelihoods			Appropriate timing for intervention			
Technical interventions	Immediate benefits	Protect assets	Rebuild assets	Immediate aftermath	Early recovery	Recovery	
Feed	1	3	3	<b>✓</b>	<b>/</b>	_	
Water	1	1	1	<b>✓</b>		_	
Veterinary support	1	3	3	<b>✓</b>	<b>&gt;</b>	<b>*</b>	
Shelter	2	2	2	<b>✓</b>	<b>&gt;</b>	_	
Livestock offtake	0	0	0	_			
Provision of livestock	0	0	3			<b>~</b>	

- 3 Very positive impact on objective
- 2 Some impact on objective
- 1 Very little impact on objective
- 0 Not appropriate

Figure 3.6: PRIM sample B. Slow-onset emergency - a drought in Africa

	Scoring ag livelihoods		Appropriate timing for intervention				
Technical interventions	Immediate benefits	Protect assets	Rebuild assets	Alert	Alarm	Emergency	Recovery
Feed	1	2	3		<b>✓</b>	~	
Water	1	2	1		<b>~</b>	~	_
Veterinary support	1	3	3	~	~	~	1
Shelter	0	0	0	_			_
Livestock offtake	3	2	1	~	<b>~</b>	( <b>~</b> )	
Provision of livestock	0	0	3			~	<b>✓</b>

- 3 Very positive impact on objective
- 2 Some impact on objective
- 1 Very little impact on objective
- 0 Not appropriate

<sup>\*</sup>technical interventions aligned with one or more of the three livelihood objectives























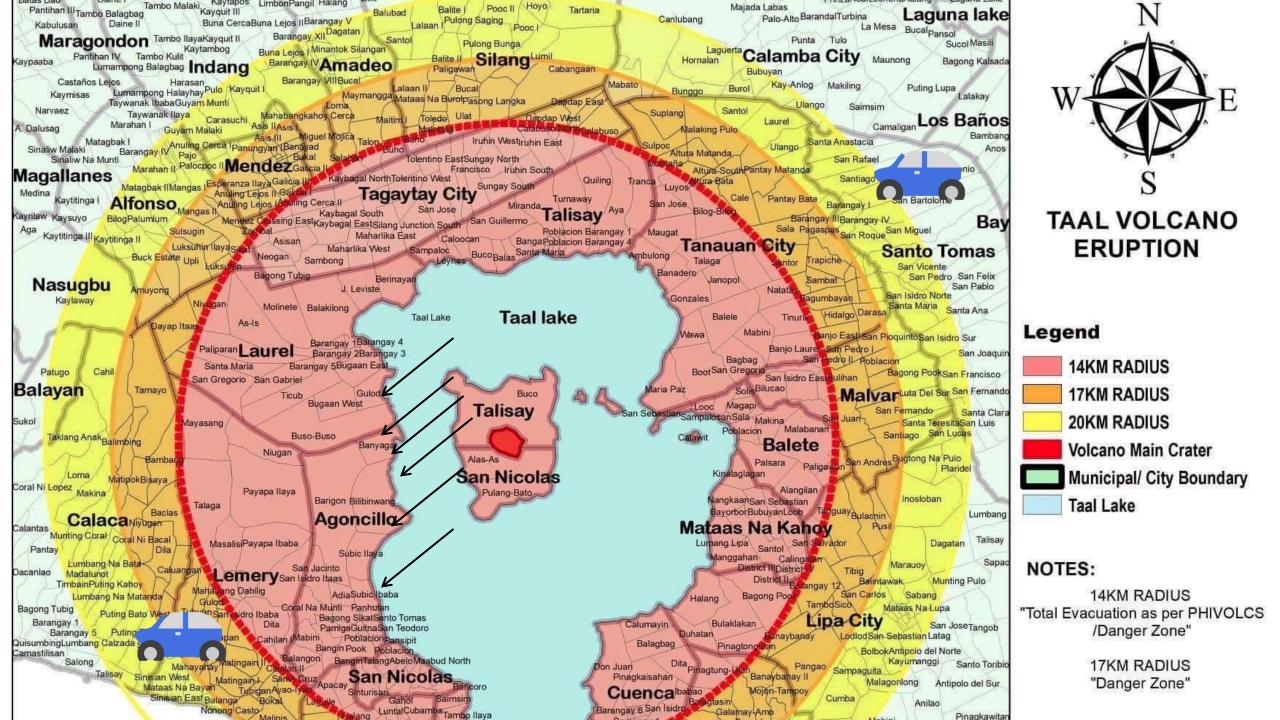






Lead Volunteer for the Project TAAL Disaster Response Team





# RELIEF and RESCUE OPERATIONS









































































SERVE. GROW. LEAD

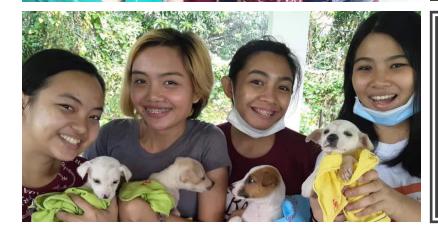












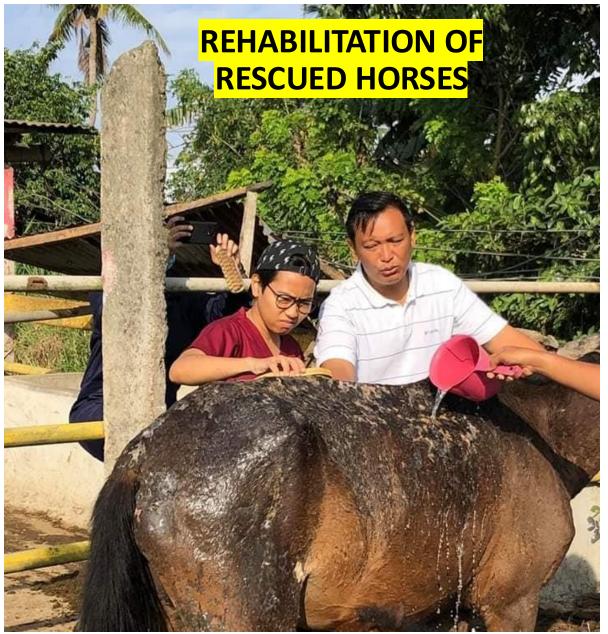
**BATANGAS CITY TEMPORARY SHELTER** 











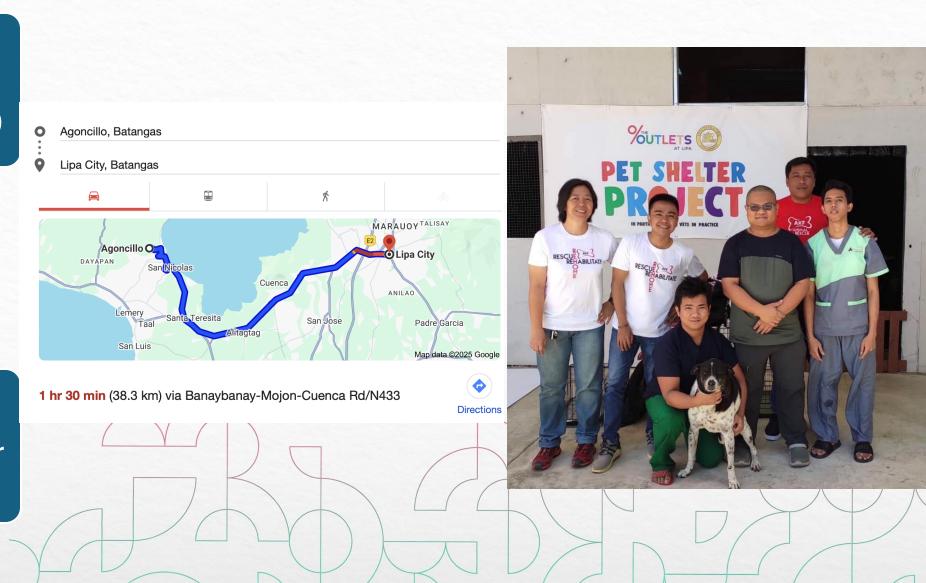
#### Rescue-Rehabilitation-Rehome/Reunite

Animal Kingdom
Foundation
(animal welfare NGO)



**Vets in Practice** 

Pet shelter project for companion animals



## CLINICAL ROTATION OF SENIOR VETMED STUDENTS





















#### SENIOR CLINICIANS ASSISTING IN ANIMAL-ASSISTED SERVICES









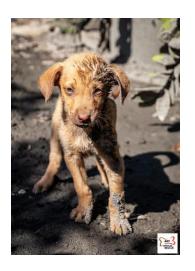




RESCUED DOG REUNITED WITH OWNER























#### FAVA-VNU-Regional Webinar

#### The Vital Role of Veterinarians During Emergencies and Disasters in Asia

Thursday, 29 July 2021 | Time 13.00 - 15.00 hrs. (GMT+7)



Dr. Quaza Nizammuddin Bin Hassan Nizam FAVA president



Dr. Lina Policarpio Chairman FAVA Subcommittee on Animal Welfare



Dr. Rey Camuta del Napoles, DVM
Head of Veterinary and Emergency Services for
Animal Kingdom Foundation Council on
Technical Standard - Companion Animals
Philippine Veterinary Medical Association



Dr. Rina Tan de Luna
Trainer, Livestock Emergency
Guidelines and Standards
Program Director, University of the Philippines
Professional School for Agriculture
and the Environment



**Dr. Marga Carpio**Small Animal Practitioner Philippines



Dr. Naritsorn Pholperm, DVM
Animal in Disaster Expert
Thailand



Dr. Bambang Pontjo Priosoeryanto
Secretary General of FAVA

















## The importance of veterinary support in emergency response

• Emergencies can increase disease risk and animal vulnerability

Veterinary support →
 strengthen animals →
 protect livestock assets

