

AVIAN

INFLUENZA H5N6:

The Philippine Experience

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*Animal Health and Welfare Division
Bureau of Animal Industry
Philippines*



Food and Agriculture
Organization of the
United Nations

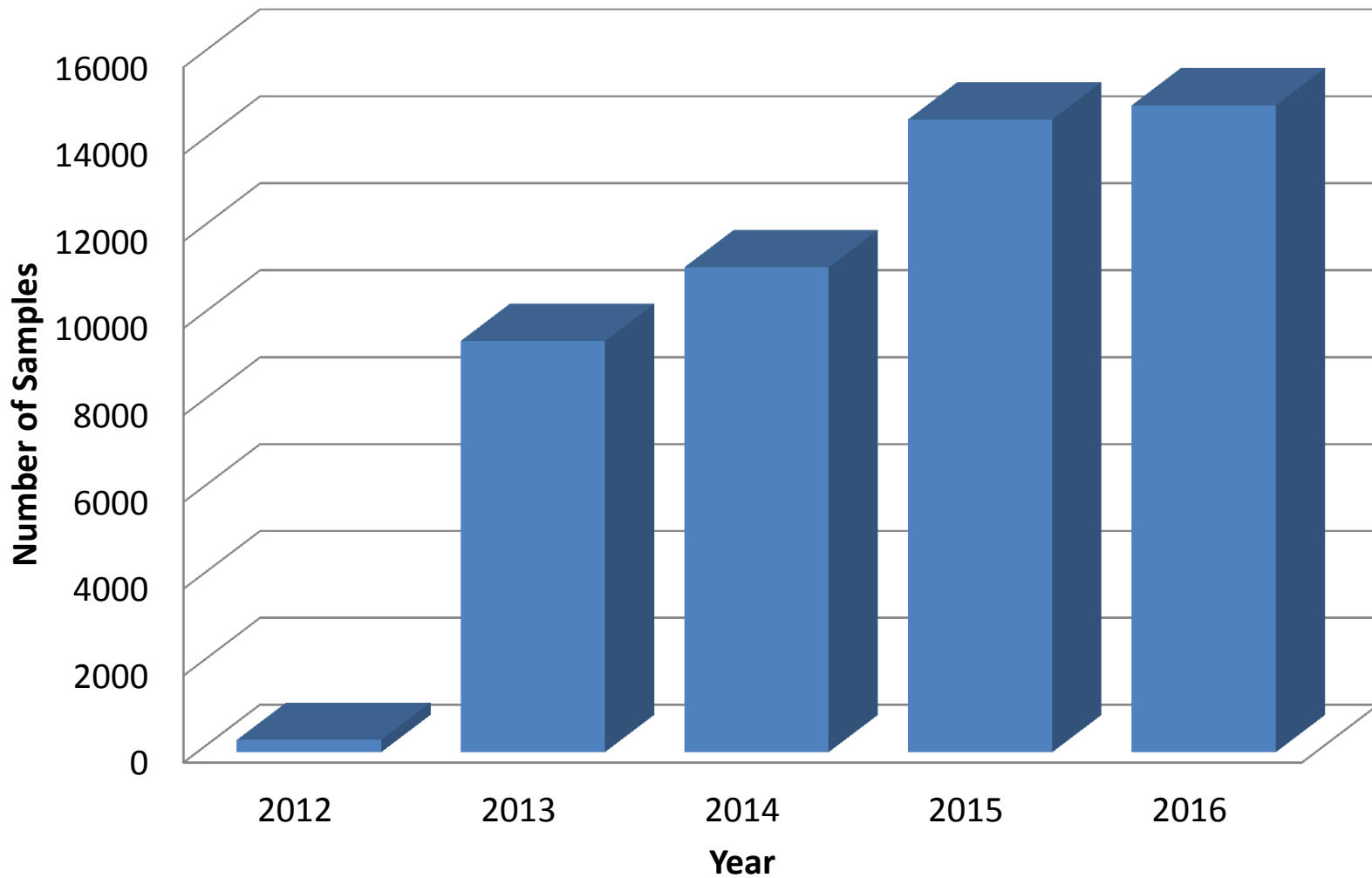


World
Organisation
for Animal
Health



World Health
Organization

Annual samples tested for Avian Influenza Surveillance



Quick Response Teams

FLORENTINO A. ADAME, DVM
DA RFO 1
09277725718



JHONABETH B. PAJARILLAGA, DVM
BAI-RVQS 1
09358486040



OFELIA P. DUCAYAG, DVM
DA RFO CAR
09085598628



XANDRE D. BACCAY, DVM
DA RFO 3
09173927326



OFELIA P. DUCAYAG, DVM
DA RFO CAR
09085598628



AGNES R. DELA CRUZ, DVM
DA RFO 3
09158474034



MANUEL M. GALANG JR., DVM
DA RFO 2
09066942159



ROMEO J. MANALILI, DVM
BAI-RVQS 3
09184080397



GLORIA G. SALAZAR, DVM
DA RFO 4A
09497453039



RONA P. BERNALES, DVM
DA RFO 5
09083127440



ROGELIO P. PEÑAFLOR, DVM
DA RFO 4B
09162562513



EMMANUEL N. VILLAFUERTE, DVM
BAI-RVQS 5
09202134289



HUGO R. UNTALAN, JR., DVM
DA RFO 4B
09173293932



NILO P. LINGAYA, DVM
BAI-RVQS 6
09209731619



GABRIEL R. BANGA, DVM
DA RFO 8
09083696899



ARCHIE T. LLUZ, DVM
DA RFO 8
09156021137



PACIFICO F. LUMAUG III, DVM
DA RFO 6
09394673785



MIRIAM C. LOPEZ-VITO, DVM
BAI-RVQS 7
09177107178



LYNDONN JAKE C. CAÑAS, DVM
DA RFO 8
09369593015



MA. CONSUELO P. MECA, DVM
BAI-RVQS 8
09322083429



CATHERINE G. LOJERA, DVM
DA RFO 9
09156021137



ALANITA A. JUMALON, DVM
DA RFO 10
09366990978



JOSE LEO P. GALICIA, DVM
BAI RVQS 9
09159867931



DALE FRANCO B. LLENTIC, DVM
BAI RVQS 10
09173927326



NEIL C. DOTON, DVM
DA RFO 12
09985606335



CASTOR LEO A. EJERCITO, DVM
BAI-RVQS 12
09189064255



KRIS LOUVEN Y. MABALOT, DVM
DA RFO 11
09368428363



YVONNE MATET D. RESTON, DVM
DA RFO 11
09954361246



ESTHER B. CARDEÑO, DVM
DA RFO 13 (CARAGA)
09172053441



DOMINADOR F. MARTINEZ, DVM
BAI-RVQS 11
09213864587



MARLO I. SEPE, DVM
BAI-RVQS 13 (CARAGA)
09392171795



RAFAEL T. MERCADO, DVM
DA RFO 11
09213293416



Source: PHILAHIS

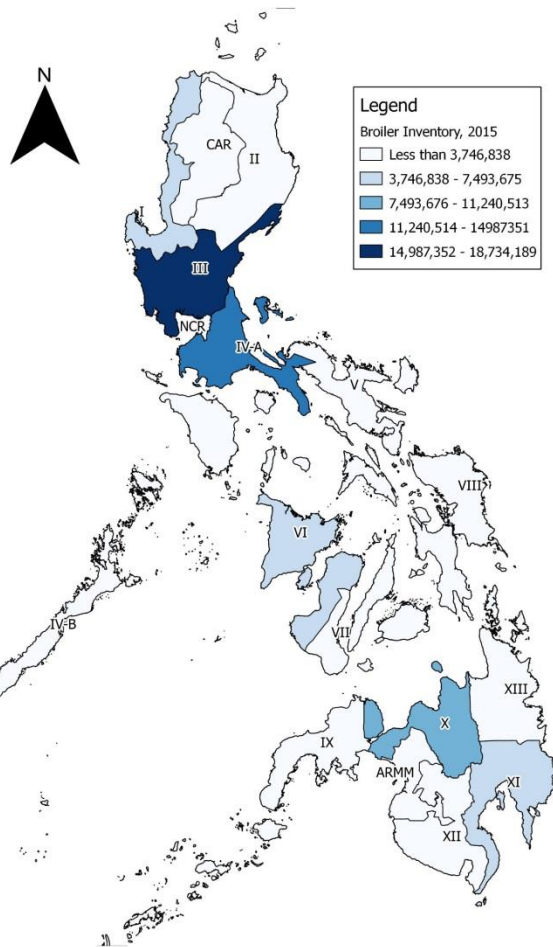


Capacitation

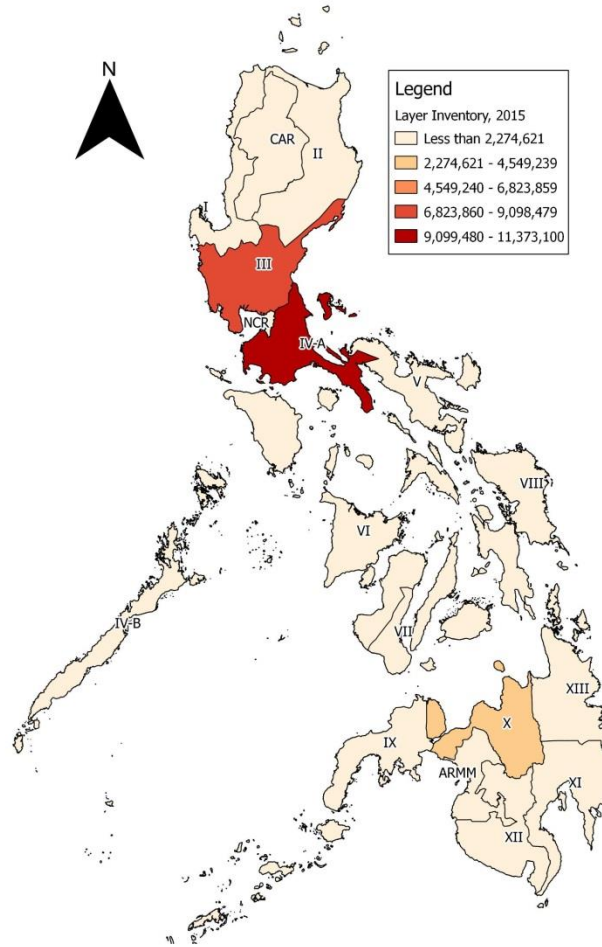
- Since 2014, 16 BAI seminar-workshops on outbreak investigation and management
- Trained more than 400 animal health workers: AI and FMD Prevention



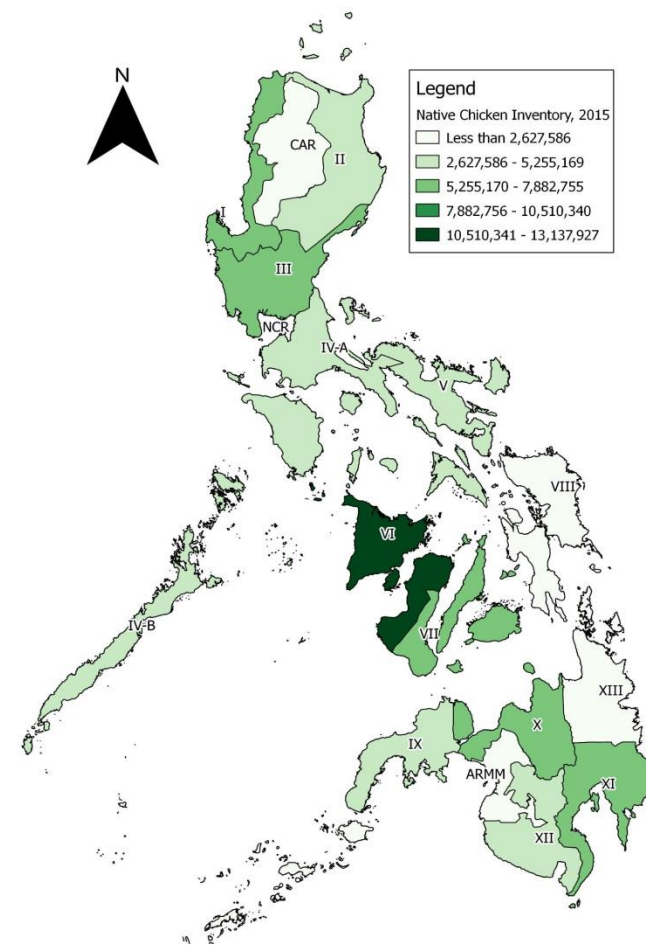
Poultry distribution



BROILERS

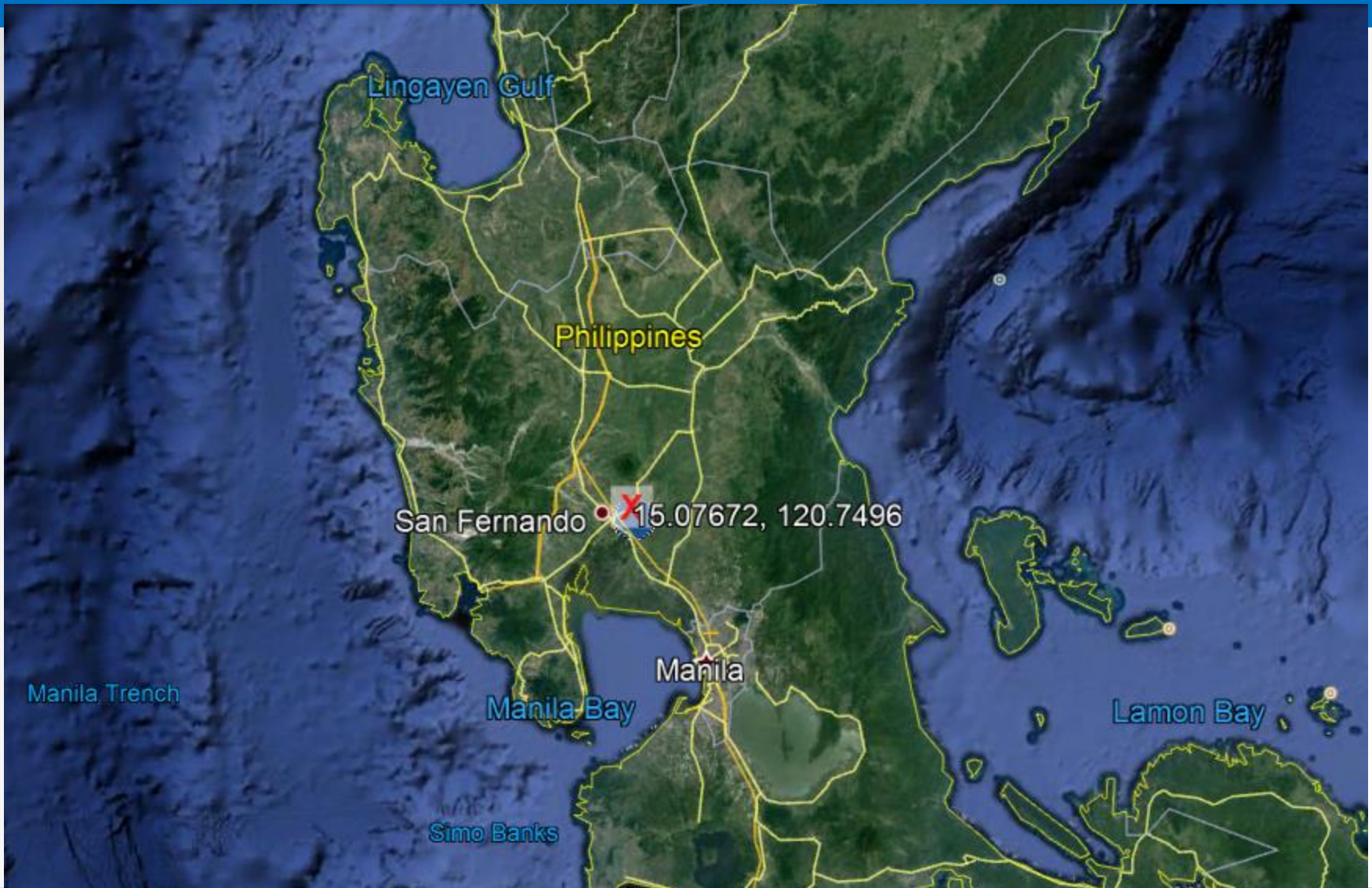


LAYERS



NATIVE

Outbreak Epicenter





100 % Mortality rate



71 % Mortality rate

Clinical Signs

Lethargy

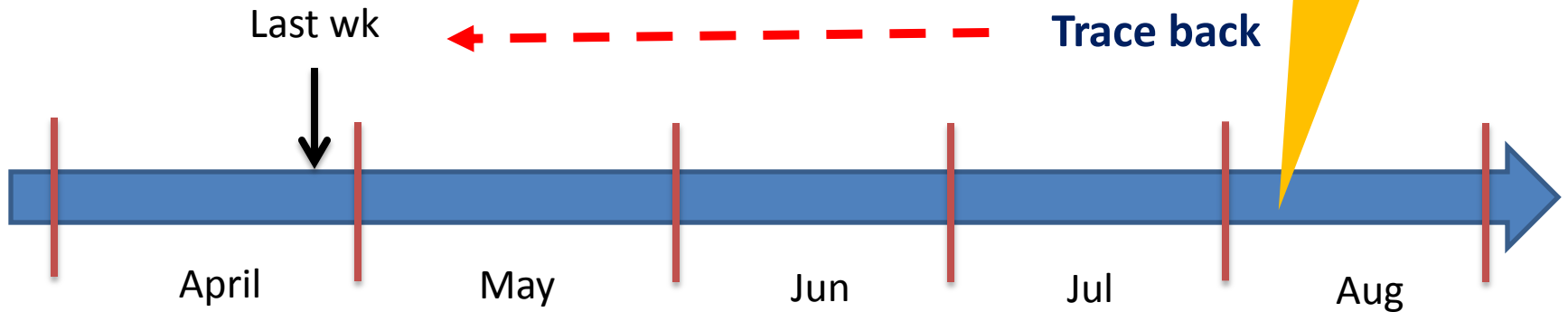
Inappetence

Nasal and oral discharge

Seizures

death

Alert for BAI



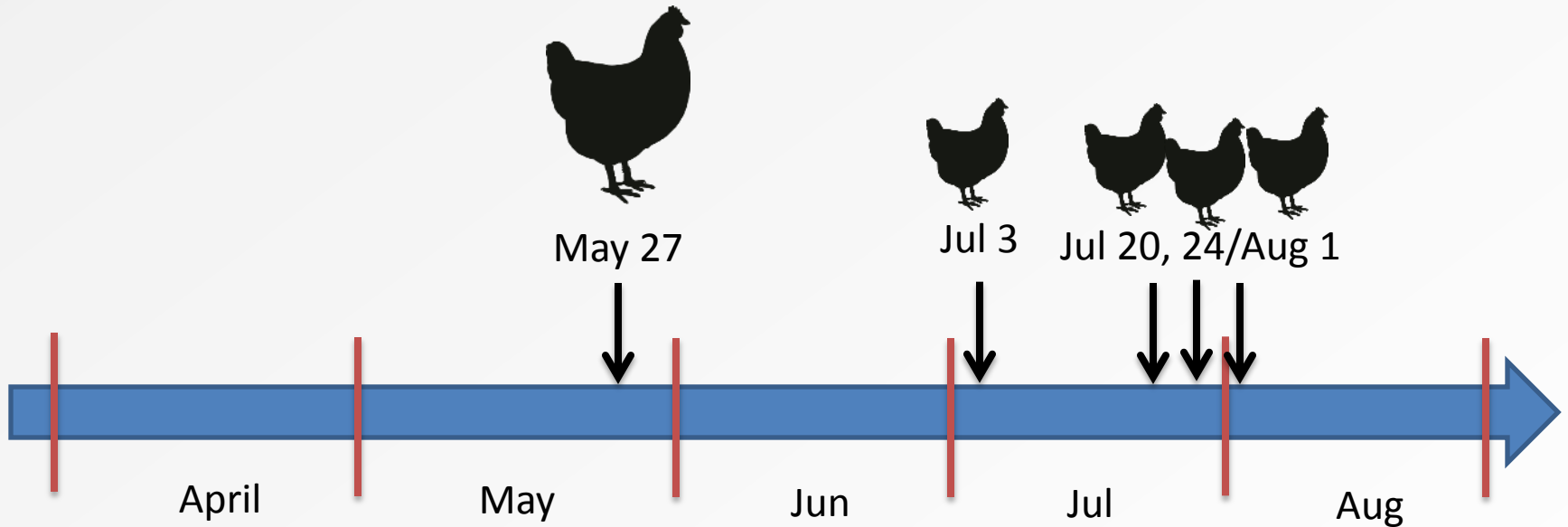
Dates observed in other farms

Clinical Signs

Lethargy

Inappetence

Death within 24 hrs



10-100 % Mortality rate

Field investigation and sample collection



Laboratory Tests

- Screening: RADDL Region 3: **AI Positive**
- Confirmatory: BAI Laboratory
 - First test: **Type A positive**
 - Second Test: **H5 positive**
 - Third Test: H7 negative
 - Fourth test: N1 negative

Diagnosis: Avian Influenza Type A subtype H5
Same results obtained by a big poultry company
and by a university virologist

Summary

More detailed PCR and sequencing results are attached in Appendix A.

BLAST analysis of the HA sequences revealed highest (99%) Genbank sequence similarities to clade 2.3.4.4 group C H5N6 HPAI viruses.

Although the closest BLAST matches were to A(H5N6) viruses detected in wild birds, AAHL recommends that this should be interpreted with caution based on the present analysis, since this may be biased by the virus sequences that are currently available in Genbank. It should be noted that although there have been multiple notifications of H5N6 outbreaks due to H5N6 virus in the region from 2016-2017, there is an absence of poultry-derived H5N6 viruses from South Korea from this period currently in Genbank. As a result, comparison with these viruses cannot be made.

Tests to Follow

High Throughput Sequencing

Influenza Haemagglutination Inhibition Test

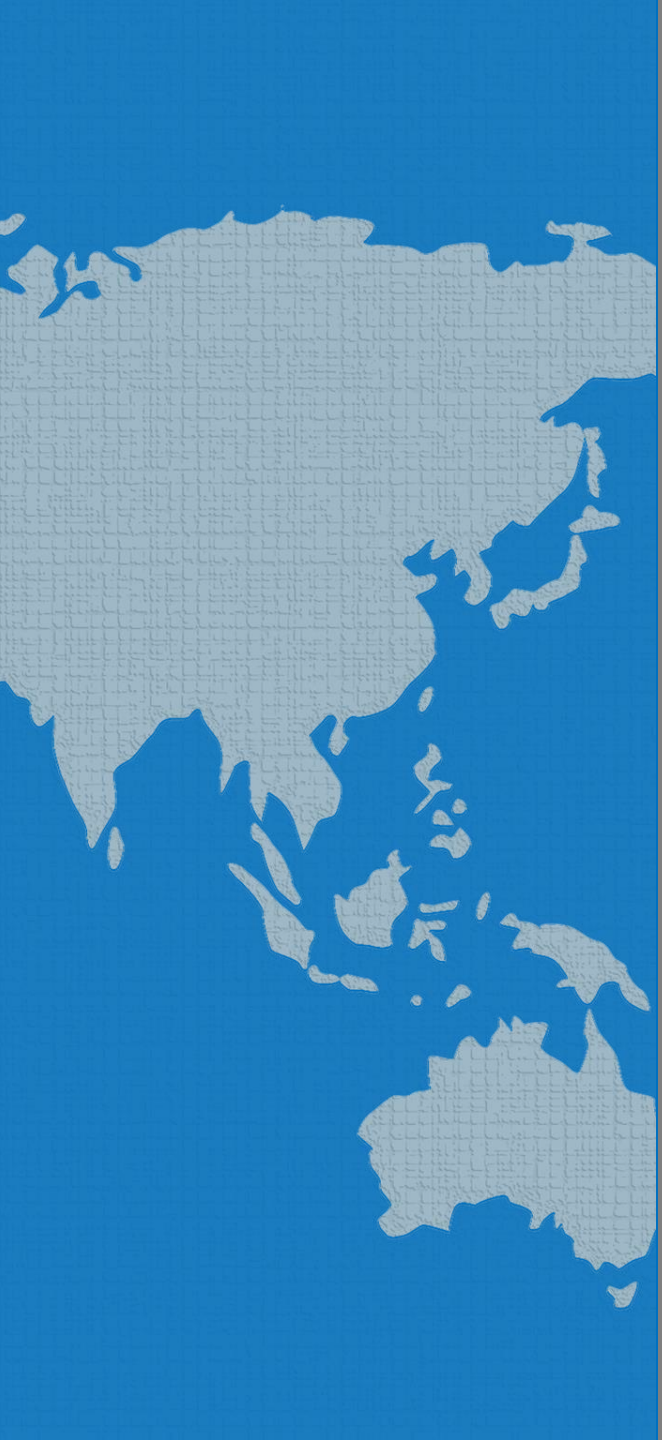
H5N6

Yours Faithfully



Mark Ford - Veterinary Diagnostician

Quezon City
Examination Requested: AI Com
Sample Information provided: 4 x Tubes and 7 x Swabs



Activities



Food and Agriculture
Organization of the
United Nations

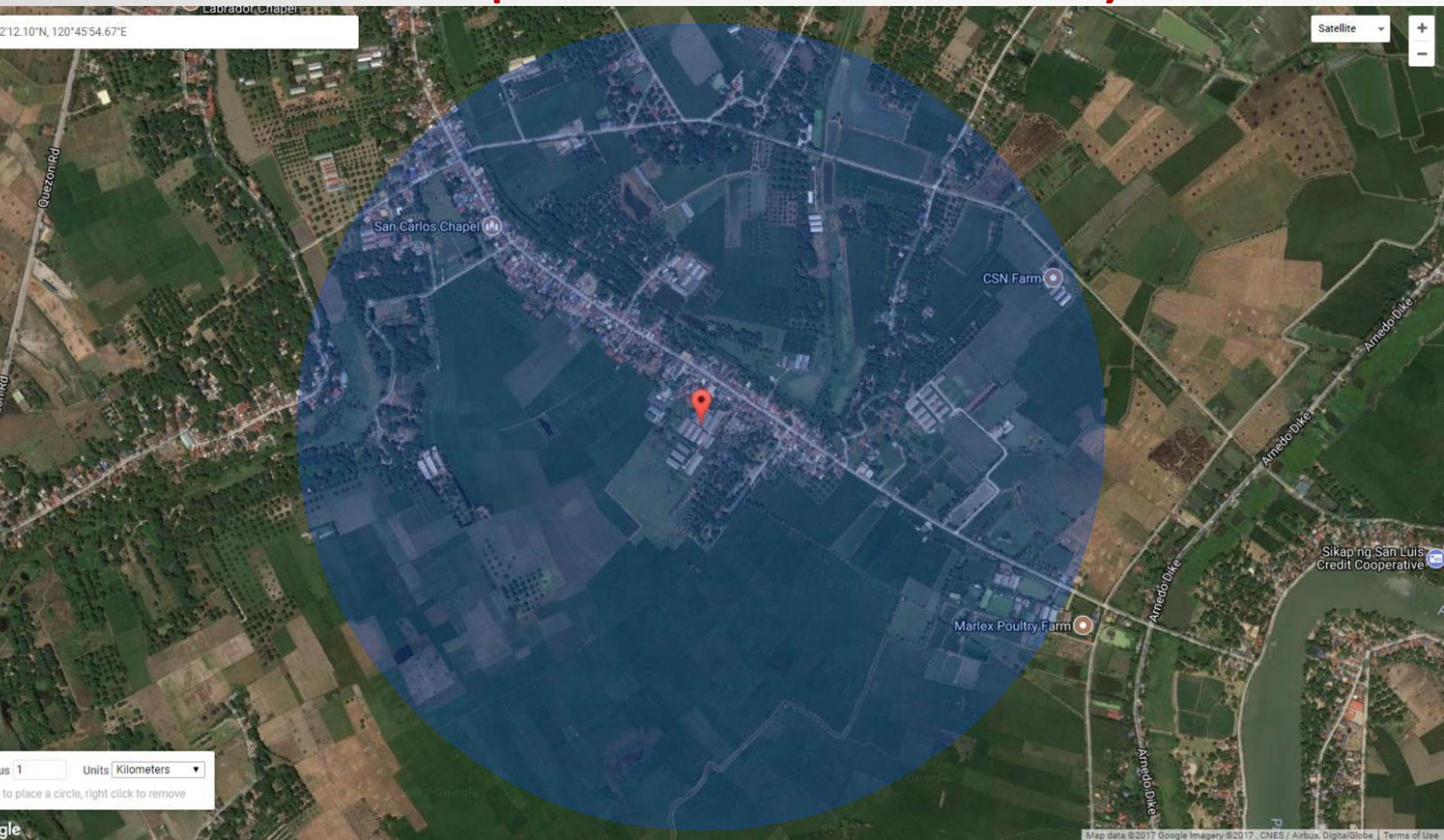


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Health



World Health
Organization

An accurate map is essential and very useful!



SURVEILLANCE

DEPOPULATION

CONTROL STRATEGIES

B

Biosecurity and Disinfection

I

Isolation and Quarantine

R

Reporting and Surveillance

D

Depopulation and Proper Disposal

le

Information and Education

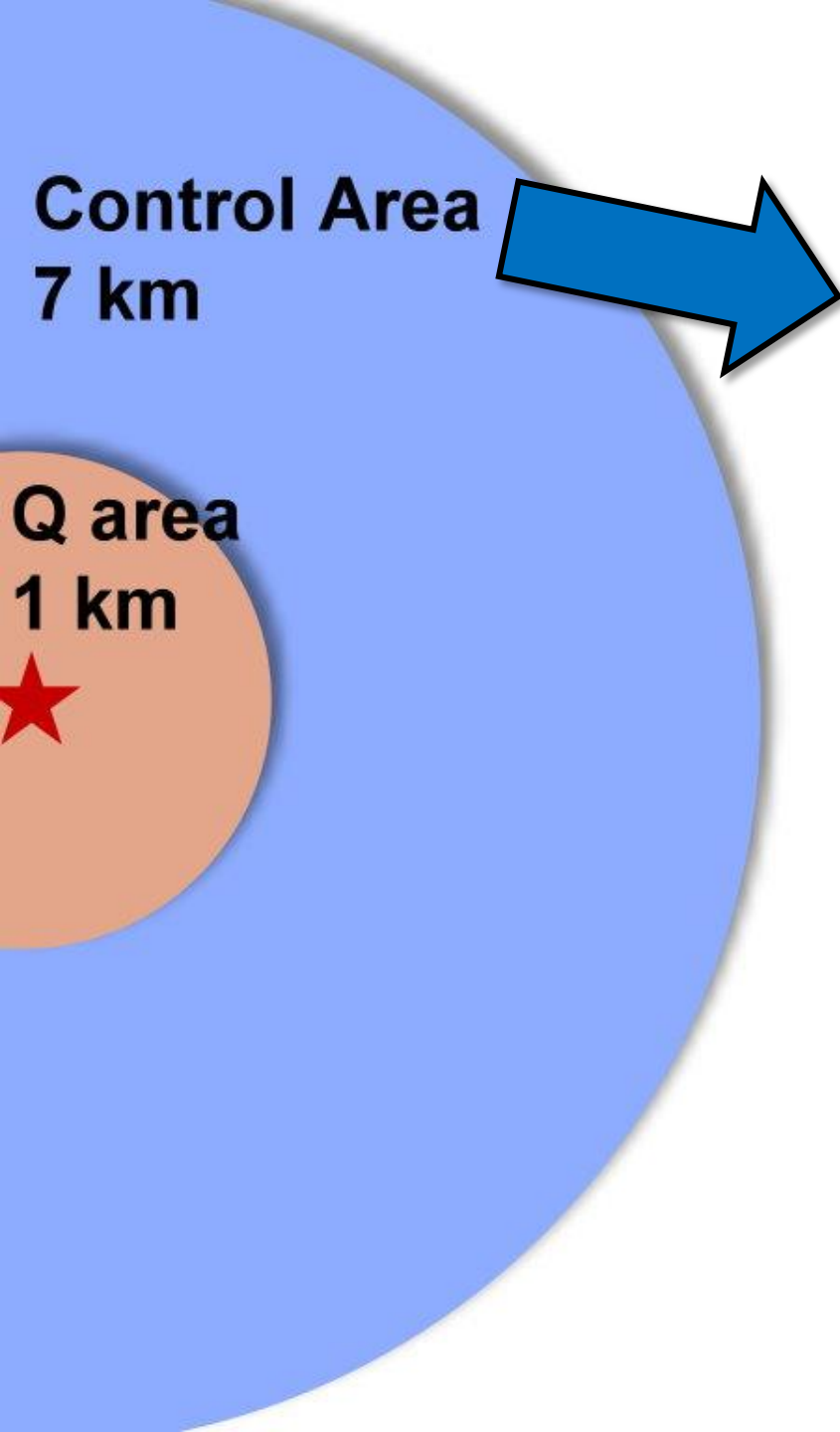




Quarantine Area (One-kilometer area) **Kill Zone**

- Strict animal movement control
- Poultry Depopulation





**Control Area
7 km**

**Q area
1 km**



Seven-kilometer (Control Area)

- Strict animal movement control
- Surveillance

Organized



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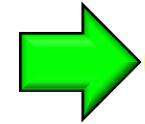
- Incident Command Post
- Dedicated hotline and spokesperson

Control Area
7 km

Q area
1 km



Critical areas SECURED!



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Memos issued to regulate movement of poultry and poultry products/by-products

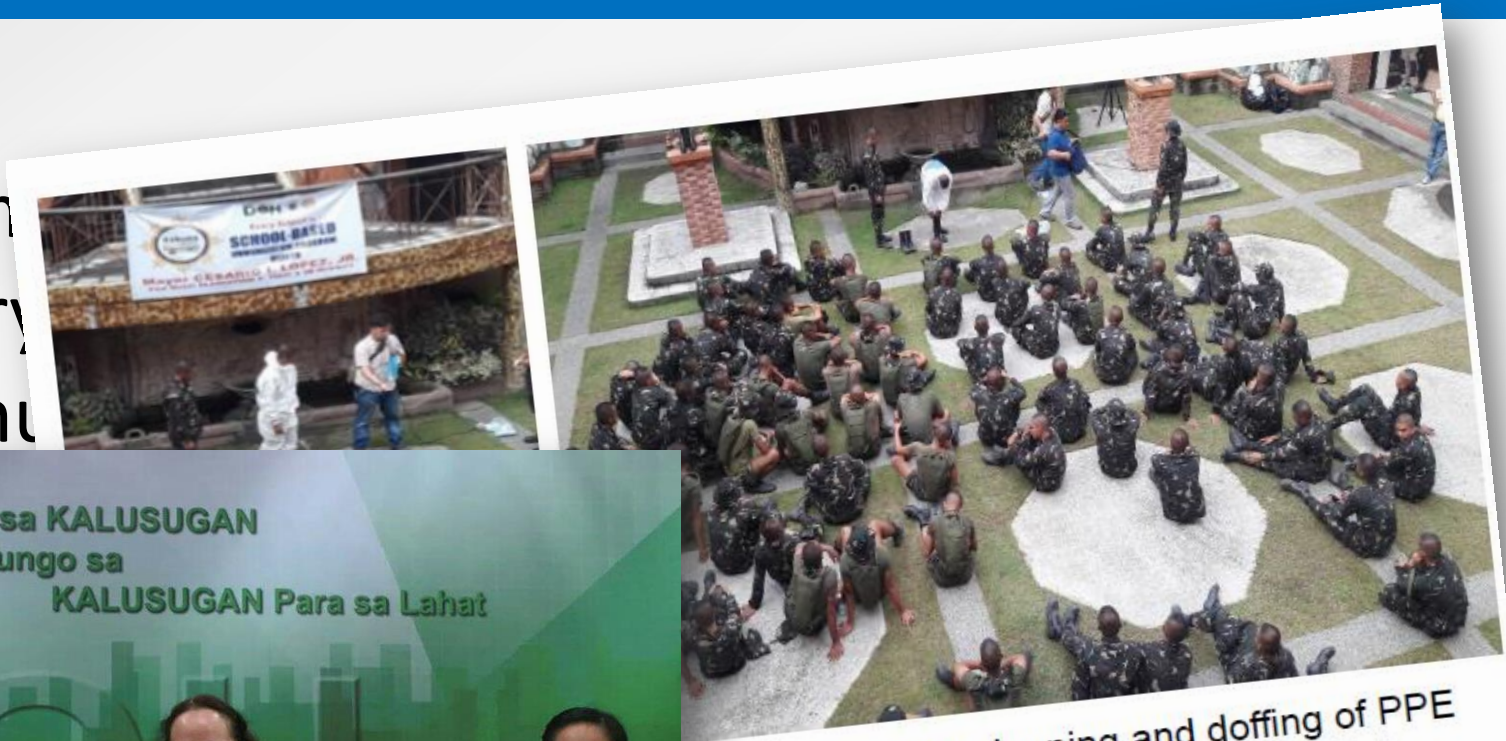




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One Health

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nteers on proper donning and doffing of PPE
farms in Jaen and San Isidro Nueva Ecija





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Depop Figures (Quarantine Area)

- **San Luis, Pampanga:** completed
- **Total kill: 260,910 birds**
- **Jaen and San Isidro, Nueva Ecija:** completed
- **Total kill: 246,792 birds**
- **Grand Total: 507, 702**

(BAI supervised depopulation; Figures represent the remaining birds when the depop team arrived in the farms)



Sample Quail farm

- Nueva Ecija



“Rested” Quail Cages



Avian Influenza Task Force

@AvianFluPH

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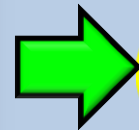
August 18 at 12:34pm · 🌐

Narito po ang mga dapat nating tandaan upang makaiwas sa Bird Flu.

MGA DAPAT TANDAAN UPANG MAKAIWAS SA BIRD FLU

- Lutuin nang mabuti ang kamay at ilog ng manok, pato, bibe, pugo o ilik.
- Ugaling maghugas ng kamay pagkatapos ma-expose o humawak ng ano mang uri ng ibon at manok.
- Magpatingin sa doktor kung masama ang pakiramdam pagkatapos ma-expose o humawak ng ano mang uri ng ibon.
- Kumain ng tama at wastong pagkain at mag-ehersisyo araw-araw.
- Magbabakuna laban sa flu lalo na kung madalas ma-expose o humawak ng ano mang uri ng ibon at manok.
- Ireport agad ang hindi ordinaryong pagkamatay ng ano mang uri ng ibon at manok sa pinakamalapit na Agricultural o Veterinary Office sa inyong lugar.
- Huwag kumain ng hilaw na karne o ilog ng manok, pato, bibe, pugo o ilik.
- Huwag bumili ng karne mula sa mga di-maapok na mga lugar.
- Iwasan mula sa mga ibon.

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CONTROL & PREVENT BIRD FLU

For more information, suggestions or reports, you may contact the following details:

- Animal Health & Welfare Division, Bureau of Animal Industry
- Visayas Ave. Diliman, Quezon City, Metro Manila, Philippines 1101
- DA.BAI.AHWD@gmail.com
- director@bai.da.gov.ph
- Tel. no: (02) 928-2836 | 926-4883
- SMART 0920-8643 119
- GLOBE 0995-1324339
- www.facebook.com/bat.da.gov.ph
- twitter.com/bai_official

A FARMER'S GUIDE TO BIRD FLU (Avian Influenza)

RESIDENT RODRIGO ROA DUTERT

Welcome

Republic of the Philippines

"SAMAKAMA, TULUNG-TULONG SA
PAGSULONG AT PAGSULONG"

CITY OF SAN FERNANDO, PAMPANGA



August 28, 2017

Field Surveillance Team



Sample collection in 7 km Control Area

TRACING for Epidemiological links?



DOH - Human Surveillance



Republic of the Philippines
Department of Health
EPIDEMIOLOGY BUREAU
FIELD EPIDEMIOLOGY TRAINING PROGRAM



Human Avian Influenza Surveillance **Pampanga and Nueva Ecija**

as of August 27, 2017

Irma L. Asuncion, MD, MHA Director IV, EpiBureau
Ma. Nemia L. Sucaldito, MD, PHSAE Chief, AEHMD, EpiBureau
Vikki Carr de los Reyes, MD, PHSAE FETP Training Officer
Alethea R. De Guzman, MD, MCHM, PHSAE FETP Training Officer
Denisse Lou B. Manalili, RN FETP Fellow

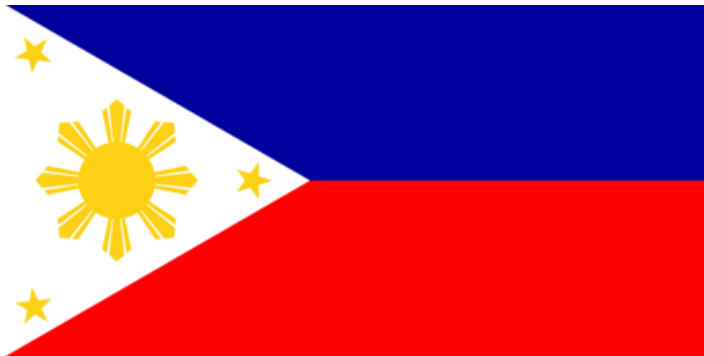


Integrity and Excellence in Field Epidemiology



Acknowledgment

The Philippine government gratefully acknowledges the generous emergency support of the Food and Agriculture Organization of the United Nations





Maraming Salamat po!
(Thank you very much!)

