


Organization Mandate de Santé Animale | World Organisation for Animal Health | Organisation Mondiale de Santé Animale

WAHIS wildlife disease reporting system



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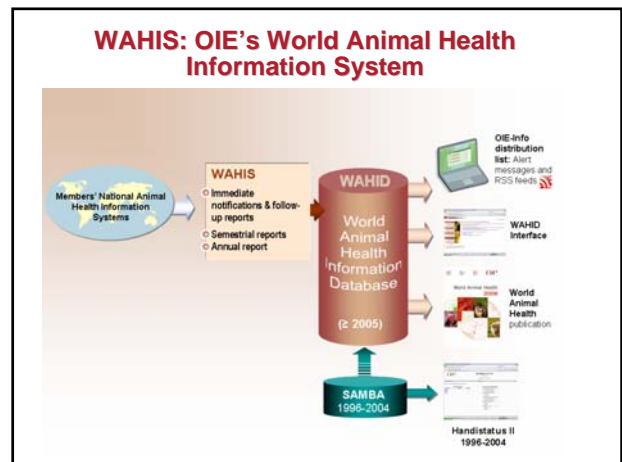
Workshop for OIE National Focal Points for Wildlife

Contents

1. OIE information system
2. Wildlife notification's improvements in WAHIS
3. WAHIS – Wild online notification system
4. Preparation of data for WAHIS – WAHIS wild application
5. Wildlife questionnaire

OIE Information System

Promote transparency in and knowledge of the global animal disease situation (Domestic & Wild)



OIE information system: source of official information

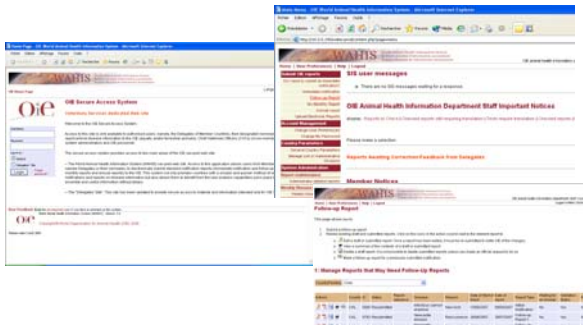
- Official Reports from Members
- Improved Members surveillance
 - Policies
 - Internal and international resources
- Active search and tracking of unofficial sources:
 - reports from worldwide network of OIE Reference Labs,
 - scientific publications and ProMed, and lay publications,
 - with verification with Members

OIE information system: how to notify

- ↪ **WAHIS web application**
(login, password)
- ↪ **Detailed Guidelines**
- ↪ **Focal points for Animal diseases notification to the OIE and for wildlife diseases, nominated but the Delegate**
(login, password)

WAHIS allows registration for all kind of reports

WAHIS online notification application



Notification of wild species health situation to the OIE

- OIE-listed diseases
 - Camel pox (domestic only)
 - Many other OIE-listed disease cover both domestic and wild species)
- OIE early warning system and monitoring system take into account both domestic and wild species to process data of the affected species

The OIE through WAHIS and even before has always considered the notification of diseases to include wildlife

But recent crisis and unjustified import bans



need to improve the notification of diseases in wild species



Mains objectives

- Improving transparency in OIE-listed diseases notification
- Improving surveillance of diseases in wildlife
- Avoiding unjustified trade barriers for OIE-listed diseases in wild species only, when relevant

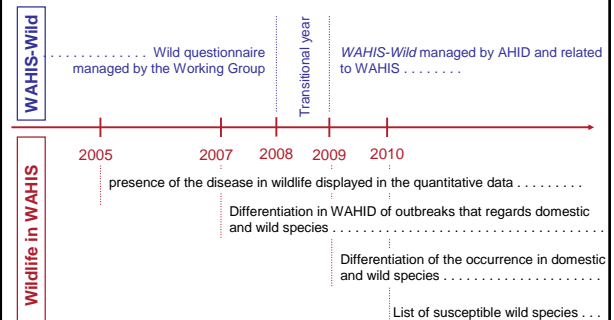


Upgrading objectives:

- Improve notification and the quality of information in wild species
- Better understanding of animal health situation in domestic and in wild animals
- Improve the OIE's early warning system
- Monitor in addition diseases that are specific to wild species (Non OIE listed) would help protecting the biodiversity, domestic animals and human health: Help in early warning
- Strengthen good collaboration and coordination between different institutions countrywide.



Mains improvements in the notification of diseases in wildlife



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From 2005, wild species recordable in WAHIS

Foot and mouth disease
Disease Report for Jul, 2008 (by administrative division)

Summary of disease/infestation for each Land

Land: Select administrative division

Species: Select Species

Animals affected

GO TO WAHIS

Wildlife in WAHIS

2005 2007 2008 2009 2010

OIE

Possibility to select: **wild species** » from the drop down list

From 2005, wild species recordable in WAHIS

WAHIS Interface

Country information

Choose Disease: **Highly pathogenic avian influenza**

Summary of Immediate notifications and Follow-ups - 2005

Highly pathogenic avian influenza

Year: **2005**

Disease Control of interest by	Identify Name	Status	Number of outbreaks	Event Summary	Full Report	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Controlling veterinary situation	Covidia	Resolved	2	Summary	Full Report	Wild species	2544	18	30	0	0
Controlling veterinary situation	Highly pathogenic avian influenza	Resolved	18	Summary	Full Report	Wild species	2	2	2	0	0

Wildlife in WAHIS

2005 2007 2008 2009 2010

OIE

2007 - better graphical differentiation in WAHIS

Outbreaks differentiation between domestic and wild species (e.g. HPAI)

Wildlife in WAHIS

2005 2007 2008 2009 2010

OIE

2009 – differentiation of the occurrence codes for domestic and wild species

Each country has to indicate the occurrence code for each OIE listed disease during the reporting period by category of domestic species and wild species

Codes indicating disease presence in Domestic Species and / or in Wild Species
+ Positive occurrence of the disease
+() Positive occurrence of the disease limited to one or more zones of the country

Codes indicating the presence of the infection/infestation in Domestic Species and / or in Wild Species
+? Identification of the presence of infection/infestation

Codes indicating disease absence in domestic Species and / or Wild Species
- Negative occurrence of the disease

Wildlife in WAHIS

2005 2007 2008 2009 2010



2009 – differentiation of the occurrence codes for domestic and wild species

Other codes in Domestic and/or in Wild Species

? Presence of the disease suspected but not confirmed

... No information available

0000 Disease never reported → in both Domestic Species and Wild Species

Wildlife in WAHIS

2005 2007 2008 2009 2010



WAHIS – 2009 - few examples

Disease Name	Species	Disease and Infection Absent			Disease and/or Infection Present		
		No information	Never Reported	Not reported in this period	Suspected	Infection/Infection (without clinical signs)	Clinical Disease
Foot and mouth disease	Domestic Wild	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
vesicular stomatitis	Domestic Wild	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hill Valley fever	Domestic Wild	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bluetongue	Domestic Wild	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
West Nile	Domestic Wild	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rabies	Domestic Wild	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Avian influenza	Domestic Wild	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Echinococcosis/hyaladiosis	Domestic Wild	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heartwater	Domestic Wild	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Wildlife in WAHIS

WAHIS – 2009 - few examples

Absent disease: If you have the disease « not reported in this period for both »

Diseases absent from the Country

Diseases which have either never been reported or have not been reported in this report period. No previous reports have been submitted.

Disease	Year (year, month (year) or precise date of the end of the last outbreak 2 min/max 3 min)	Control, Prophylaxis and Preventive Measures										
		Notifiable disease	Prevalence at the borders	Screening	General surveillance	Targeted surveillance	Movement control	Stamping out	Stamping out	Stamping out	Vaccination	Quarantine
Foot and mouth disease (Domestic)	05/08/2008	All	All	All	All	All	All	All	All	All	All	All
Cattle		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Buffaloes		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Goats		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Camelidae		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sheep / goats		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sheep		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Wildlife in WAHIS

WAHIS – 2009 - few examples

Absent disease: If you have the disease absent only in domestic species

Diseases absent from the Country

Diseases which have either never been reported or have not been reported in this report period. No previous reports have been submitted.

Disease	Date of last occurrence	Control, Prophylaxis and Preventive Measures										
		Notifiable disease	Prevalence at the borders	Screening	General surveillance	Targeted surveillance	Movement control	Stamping out	Stamping out	Stamping out	Vaccination	Quarantine
Hill Valley fever (Domestic)	08/08/2006	All	All	All	All	All	All	All	All	All	All	All
Cattle		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Buffaloes		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Goats		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Camelidae		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sheep / goats		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sheep		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Wildlife in WAHIS

WAHIS interface – 2009 - examples

Wildlife in WAHIS

Wildlife in WAHIS

WAHIS interface – 2009 - examples

Wildlife in WAHIS

Wildlife in WAHIS

WAHIS interface – 2009 - examples

Wildlife in WAHIS

Wildlife in WAHIS

Starting from 2010

The system will offer for *wild species* category a short list of known susceptible species using a drop-down menu

↓

- Family name
- Latin name (scientific name)
- Common name

⇒ The short list of known susceptible species will be related to:

- disease;
- disease regional distribution (e.g. CWD).

Example:

Disease	Family name	Latin name	English Common Name	French Common Name	Spanish Common Name
West Nile fever	Anatidae	Anas platyrhynchos	Mallard	Canard colvert	Anade Real

Wildlife in WAHIS

Starting from 2010

The system will allow the possibility to add in a box of free text another species (if it is not in the list), indicating the Latin name and common name.

↓

When a user adds a new name after validation, introduce it into the database

Wildlife in WAHIS

WAHIS - Starting from 2010

Quantitative information page for wild species

Animals affected

Category: Wild

Family Name: select_from

Latin Name: select_list_name

Common Name: select_com_name

Add Family Name: select_from

Add Latin Name

Message: Animals

Susceptible:

Cases:

Deaths:

Destroyed:

Slaughtered:

The system will allow the possibility to add in a box of free text another species (if it is not in the list).

Wildlife in WAHIS

Contents

- OIE information system
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- WAHIS-Wild online notification system
- Preparation of data for WAHIS – WAHIS-Wild application
- Wildlife questionnaire

Concept

- Improve notification and quality of information in wild species
- Be in-line with the actual six-monthly reporting procedure for OIE listed-diseases
- To report specific non-OIE diseases affecting wild species

Collecting annual data once a year

Through a template divided into two six-month periods

Requesting for

- qualitative data and
- quantitative data (by month or six-month and by first administrative division or for the entire country)

Need harmonisation with data entered before in WAHIS on wild species

Animals Diseases Notification

WAHIS - Web application National access DELEGATE

WAHIS - Web application National access

- Terrestrial focal point
- Aquatic focal point (Nominated by the Delegate)

WAHIS-Wild online notification system National access for Wildlife focal point nominated by the Delegate

WAHIS - web application

- Immediate notifications
- Follow-ups
- Six-monthly reports
- Annual report

Wildlife diseases data transfer

Annual wildlife report

Annual wildlife report: *WAHIS-Wild*

Divided in two parts:

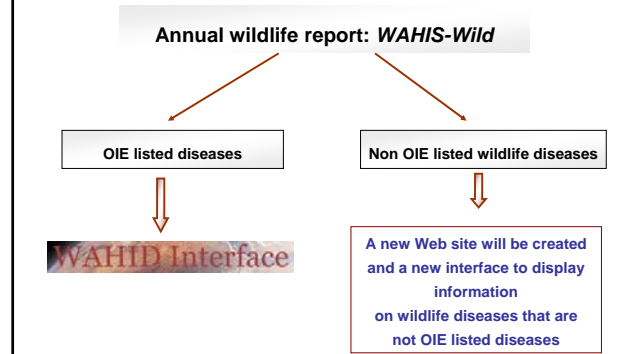
– OIE listed diseases in wild species

- Already entered for the six-monthly reports
- Automatically transferred in the Annual wildlife report
- To be checked, corrected and completed if needed by the wildlife focal point and receive Delegate's agreement
- Will be displayed on WAHID for wild species information

– Non OIE listed wildlife diseases

- To be processed by the wildlife focal point
- Will be displayed on a specific website to be designed

Wildlife information - collection and display



Example of data transfer of an OIE listed disease from WAHIS to *WAHIS-Wild*

1st six-monthly report (for the whole country template)

HPAI : transferred from the 1st six-monthly report collected in WAHIS

Family name	Latin name	No. of new outbreaks	Serotype	Total No. of outbreaks	susceptible animals	case s	death s	animals destroyed	animals slaughtered	animals vaccinated	Validation
Anatidae	Cygnus cygnus	8		8		8	8	0	0	0	Y/N
Anatidae	Branta canadensis	1		1	1	1	0	0	0	0	Y/N
Anatidae	Cygnus olor			750	10	10	0	0	0	0	Y/N
Accipitridae	Buteo buteo	1		1	1	1	1	0	0	0	Y/N

2nd six-monthly report (for the whole country template)

HPAI : transferred from the 2nd six-monthly report collected in WAHIS

Family name	Latin name	No. of new outbreaks	Serotype	Total No. of outbreaks	susceptible animals	case s	death s	animals destroyed	animals slaughtered	animals vaccinated	Validation
Anatidae	Cygnus olor	2		2	2	2	0	0	0	0	Y/N
Anatidae	Branta canadensis	4		4	150	4	4	0	0	0	Y/N
Anatidae	Anas crecca			100	5	5	0	0	0	0	Y/N
Falconidae	Falco peregrinus	3		3	3	3	0	0	0	0	Y/N

Example: data to complete on Non OIE listed disease by FPW

1st six-monthly report

Chronic Wasting Disease (Not-listed wildlife diseases entered by the FPW)

Family name	Latin name	No. of new outbreaks	Serotype	Total No. of outbreaks	susceptible animals	cases	deaths	animals destroyed	animals slaughtered	animals vaccinated
Cervidae	Cervus lanadensis	2		2		2		1	1	0
Cervidae	Odocoileus hemionus	52		52		52		15	57	0
Cervidae	Odocoileus virginianus	1		1		1		1	6	0
Cervidae	Cervus elaphus	1		1		1		1	1	0

2nd six-monthly report

Chronic Wasting Disease (Not-listed wildlife diseases entered by the FPW)

Family name	Latin name	No. of new outbreaks	Serotype	Total No. of outbreaks	susceptible animals	cases	deaths	animals destroyed	animals slaughtered	animals vaccinated
Cervidae	Cervus lanadensis	10		10		10		20	0	0
Cervidae	Odocoileus hemionus	5		5		5		2	3	0
Cervidae	Odocoileus virginianus	7		7		7		2	6	0
Cervidae	Cervus elaphus	1		1		1		1	1	0

For the non OIE listed diseases the system will offer the six-monthly time period reporting to enter data

Not OIE-listed wildlife diseases

- Do not meet the OIE's criteria to be listed
- Selected by OIE's experts on wild animals while new criteria will be developed to list them,
- Because of their importance for wildlife
- Importance for early warning purposes, in order to protect both human and domestic animal health.

53 infectious and non infectious diseases affecting wildlife

FEW EXAMPLES:

- Chronic wasting disease
- Ebola virus hemorrhagic fever
- Hantaviruses
- Elephant Herpesvirus
- Fibropapillomatosis in sea turtles (reptile disease)
- Algal toxicosis (non-infectious disease)

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 - a. Wild species database
 - b. Focal point on wildlife
5. Wildlife questionnaire

Wildlife species database

➤ A database has been created on susceptible wild species related to diseases and will be included in WAHIS version 2. It contains:

- 1805 Latin names
- 1805 English common names
- 1536 French common names and
- 439 Spanish common names.



Wildlife database

Summary up to 14-01-2010

Category of disease	Diseases		Diseases linked to susceptible species
	N°	N°	%
OIE listed diseases affecting wild animals (only Terrestrial OIE listed diseases are considered)	84	61	72,6%
Non-listed wildlife diseases	45	38	84,4%
Diseases of reptiles	4	1	25,0%
Diseases of amphibians (Aquatic OIE listed diseases)	2	2	100,0%
Non-infectious diseases	4	2	50,0%



Focal Points on wildlife

To ensure the optimal collection and submission of information on wildlife, Members were requested to nominate **National Focal Points** to assist the OIE Delegate and act as a direct contact point with the OIE Animal Health Information Department.

- Focal point for animal disease notification
- Focal point for aquatic animal
- Focal point for wild animal disease



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The transition period: Wildlife questionnaire

The process of improving the system for wildlife has started in 2008 through the new questionnaire in Excel file that has been redesigned to take into account further new improvements and start the integration between WAHIS and data previously collected in the old questionnaire.

It was a good opportunity for focal points for wildlife disease notification to know about the ongoing changes to prepare countries to collect needed requested data in the future.

This questionnaire was organised to collect annual data once a year but divided into six-months period to be in-line with the actual six-monthly reporting procedure:

- qualitative data and
- quantitative data (by month or six-month and by first administrative division or for the entire country)



The transition Wildlife questionnaire

	A	B	C	D	E	F	G	H	I	J	K
1	Help										
2											
3	(1) Disease occurrence code:										
4	Please ensure that an occurrence code is indicated for each disease in wild animals in your country in 2008.										
5	Legend										
6	No information	No information	--								
7	Disease and Infection Absent	Never reported	0000								
8		Not reported in this period	-								
9	Disease and/or Infection Present	Suspected	?								
10		Infectious/inflammation (without clinical signs)	+?								
11		Clinical disease	+								
12		Disease limited to one or more zones	+0								
13											
14	(2) Date of last occurrence:										
15	If "not reported in this year", specify the date of the last occurrence of the disease and/or infection in wild animals, if this date is known. This should be the date of the end of the last subepidemic of the disease in wild animals. If the exact date is unknown, enter the month and the year. If the month is not known, enter only the year. If it is not known, enter - (to do this, please enter an apostrophe, then a hyphen, i.e. -).										
16											
17	<input type="checkbox"/> M\, Cover page <input type="checkbox"/> Help <input type="checkbox"/> Qualitative data <input type="checkbox"/> Quantitative data by Month or <input type="checkbox"/> Quantitative data by Semester <input type="checkbox"/> x										
18											



The transition Wildlife questionnaire

1 ANNUAL NOTIFICATION OF THE ABSENCE OR PRESENCE OF WILD ANIMAL DISEASES

When you put your mouse on cells on "Disease occurrence code" or "Positive disease/infection" columns, a *dynamic drop-down list* is meant to help you in data processing.

5 Country: YEAR 2009 For positive disease/infection, details should be given by semester

In the sheet called "Help" you can find the notes for filling in this questionnaire

Disease	Disease occurrence code ⁽¹⁾	Date of last occurrence ⁽²⁾	
		January - June 2009	July - December 2009
OIE listed diseases affecting wild animals			
9 Anthrax			
10 African horse sickness			
11 African swine fever			
12 Argentinian disease			
13 Asian chlamydiosis			
14 Asian infectious bronchitis			
15 Asian infectious leishmaniasis			
16 Asian infectious leishmaniasis (Mycoplasma gallisepticum)			
17 Asian mycoplasmosis (Mycoplasma agroviae)			
18 Bacteriophage			
19 Bovine anaplasmosis			
20 Bovine babesiosis			
21 Bovine genital campylobacteriosis			
22 Bovine spongiform encephalopathy			

Qualitative data / Quantitative data by Month or / Quantitative data by Semester

The transition Wildlife questionnaire

Template I or II - Quantitative data by Month for the Entire Country OR by First Administrative Division (please make only one choice)

You can find inside some templates a *dynamic drop-down list* for the following fields: Disease/infection present - Entire Country - Family name - Species in Latin name - Nature of Diagnosis (Clinical - Necropsy - Laboratory) - Laboratory test. These are meant to help you in data processing.

Month (Year 2009)	Disease/infection present	Entire Country (If you answer "No", please specify the First Administrative division in the next column)	First administrative division	No. of new outbreaks (by semipole where applicable) ⁽³⁾		Total No. of outbreaks	Family name	Species in Latin name
				N°	Semipole(s) Family			
January	OIE listed disease affecting wild animals							
February								
March								

Qualitative data / Quantitative data by Month or / Quantitative data by Semester

The transition Wildlife questionnaire

susceptible animals ⁽¹⁾	cases ⁽¹⁾	deaths ⁽¹⁾	animals destroyed ⁽¹⁾	animals slaughtered ⁽¹⁾	Animals vaccinated	Nature of Diagnosis				Laboratory test 2 ⁽¹⁾	Laboratory test 3 ⁽¹⁾	
						Clinical ⁽¹⁾	Necropsy (post-mortem) ⁽¹⁾	Laboratory ⁽¹⁾	Laboratory test 1 ⁽¹⁾			

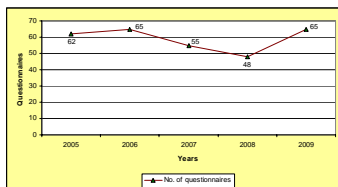
Qualitative data / Quantitative data by Month or / Quantitative data by Semester

Wild Animals Diseases Notification – focal point

The questionnaire will be replaced by WAHIS-wild online notification application

Thus, the information present in the current questionnaire will be entered online by the **"Wildlife Focal point into WAHIS-wild"**

Wildlife questionnaire – results in 2008



A total of **65** completed questionnaires were received up to 18 June 2009 (from **172** countries in 2008)

32,386 wild cases notified in **290** different species from **99** different families

Type of disease	No. of wildlife diseases reported	No. of wildlife diseases listed in the questionnaire	%
OIE-listed diseases affecting wild animals	43	86	50%
Non-listed wildlife diseases	32	45	71%
Diseases of reptiles	1	4	25%
Diseases of amphibians	2	2	100%
Non-infectious diseases	4	4	100%
Total	82	141	58%

Wildlife questionnaire – results in 2008

Distribution of countries that submitted completed questionnaires to the OIE



Thank you for your attention



If you want to subscribe to the OIE-Info distribution list to receive OIE's Alerts, you can do it from:

http://www.oie.int/eng/info/en_listserv.htm



RSS Feeds are now available too

Oie



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