



NBII Wildlife Disease Informatics Workshop

WDA Meeting, Estes Park, CO

August 17, 2007



NBII Wildlife Disease Informatics Workshop

12:00 -12:05	Introduction	Joshua Dein
12:05 – 12:30	Surveillance systems; Overviews and Challenges	Jane Parmley Marc Artois; Marie Terrier Damien Joly Paul Duff Jim Case
12:30 – 12:55	<i>Discussion</i>	
12:55 – 1:15	Data Standards	Jim Case
1:15 – 1:35	Data Sharing	Damien Joly
1:35 – 2:00	<i>Discussion</i>	
2:00 – 2:10	BREAK	
2:10– 2:35	Information Products	Cris Marsh
2:35 – 3:00	<i>Discussion</i>	

Workshop Objectives

- *Disease surveillance systems*
 - Develop list of important components
 - ~ Five factors that influence success / failure
- *Data Standards / Data Sharing*
 - Consensus for use of common standards?
 - Consensus on value of data sharing?
- *Information Products*
 - Three new tools that WDIN can develop

<i>Country / Region</i>	Canada
<i>Agency</i>	Canadian Cooperative Wildlife Health Center
<i>Operation since:</i>	1992
<i># of records</i>	> 65,000 (some program specific)
<i>Focus</i>	All wild vertebrates (mainly birds and mammals)
<i>Technology</i>	
<i>Database</i>	Linux; PostGreSQL
<i>Data entry</i>	Windows based; separate data entry stations
<i>User access</i>	Web based; limited access
<i>Data Standards</i>	Program based. Some standardized; others not
<i>Access policies</i>	Privacy policy; Access restricted; Export by agreement
<i>Contact</i>	Ron Templeman, Patrick Zimmer, Ted Leighton ron.templeman@usask.ca

<i>Country / Region</i>	France
<i>Agency</i>	ONCFS (National Game and Wildlife Agency) AFFSA (French Food Safety Agency)
<i>Operation since:</i>	1986
<i># of records</i>	40,000; + 10,000 earlier paper records
<i>Focus</i>	Free-ranging birds and mammals
<i>Technology</i>	
<i>Database</i>	MS Access
<i>Data entry</i>	Single computer
<i>User access</i>	Single computer
<i>Data Standards</i>	Internal standards
<i>Access policies</i>	Full contributor access; sharing through approval of system manager. (Agencies set policies)
<i>Contact</i>	Marie Eve Terrier – Me.terrier@afssa.fr

<i>Country / Region</i>	Latin America, Africa, Eastern Europe, Central Asia, Southeast Asia					
<i>Agency</i>	Wildlife Conservation Society					
<i>Operation since:</i>	June, 2006					
<i># of records</i>	>300,000, including bird census data					
<i>Focus</i>	Avian influenza, multiple species					
<i>Technology</i>						
<i>Database</i>	My SQL					
<i>Data entry</i>	Web based; .Net Nuke					
<i>User access</i>	Web based; .Net Nuke					
<i>Data Standards</i>	Species 2000; internal standards					
<i>Access policies</i>	Data providers set data use terms and conditions					
<i>Contact</i>	Damien Joly – djoly@wcs.org					

<i>Country / Region</i>	Great Britain (National) – England and Wales; strong link with Scotland					
<i>Agency</i>	Veterinary Laboratories Agency - Dis. of Wildl. Sch.					
<i>Operation since:</i>	VLA - 1928; DOWS - 1998					
<i># of records</i>						
<i>Focus</i>	Scanning Surv. - All wild vertebrates Targeted Surv. – WNV, AI, Salmonellosis					
<i>Technology</i>						
<i>Database</i>						
<i>Data entry</i>						
<i>User access</i>						
<i>Data Standards</i>						
<i>Access policies</i>	VLA access only; Periodic reports					
<i>Contact</i>	Paul Duff - p.duff@vla.defra.ggi.gov.uk					

<i>Country / Region</i>	California, USA (some other states and countries)					
<i>Agency</i>	California Animal Health and Food Safety Laboratory System					
<i>Operation since:</i>	1987; electronic records since 1991					
<i># of records</i>	545,000 accessions; 2,345,000 test orders; 10,850,000 results					
<i>Focus</i>	Primarily production species; 2500 spp. taxonomy					
<i>Technology</i>						
<i>Database</i>	Oracle, moving to SQL Server					
<i>Data entry</i>	DOS based, moving to web based					
<i>User access</i>	Moving to web based					
<i>Data Standards</i>	Moving to LOINC, SNOMED, "OIDS"					
<i>Access policies</i>	Restricted; Shared through NAHLN agreement					
<i>Contact</i>	Jim Case – jtcase@ucdavis.edu					

<i>Country / Region</i>	Australia
<i>Agency</i>	Australian Wildlife Health Network
<i>Operation since:</i>	2002
<i># of records</i>	~ 1000
<i>Focus</i>	Prioritized list of diseases and events
<i>Technology</i>	
<i>Database</i>	Access linked to SQL Server (WHIS)
<i>Data entry</i>	.Net; moving to web enabled (eWHIS 1.0)
<i>User access</i>	eWHIS 2.0 planned
<i>Data Standards</i>	Australian National Animal Health Inf. Standards
<i>Access policies</i>	Restricted to AWHN subscribers; security levels; confidentiality agreements
<i>Contact</i>	Rupert Woods - rwoods@zoo.nsw.gov.au

Disease Surveillance Systems questions

- Are there good examples of other disease surveillance systems that would be appropriate for wildlife?
- What are challenges for the development of wildlife disease surveillance systems?
- What has facilitated the development of a system?
- What are the important features for any system?
- Should systems be local, regional, national, or international?

Data Standards and Data Sharing

- Should all systems use the same standards?
- Should data from disease surveillance systems be shared / integrated?
- What are the benefits of data sharing?
- What are the roadblocks to data sharing?
- Is a cost-benefit analysis needed?
- Would it be possible to create a global wildlife health information system?
- How might this be accomplished?