

FOR INFORMATION

NAHIP Advisory Committee Teleconference Meeting 2023

Agenda Item 1.1

Last updated: **25 August 2023**

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NAHIP COORDINATOR REPORT 2022-23 - QUEENSLAND**RECOMMENDATION**

1. That the NAHIS Advisory Committee NOTE:
 - a. This report on NAHIP activities undertaken by the Queensland Department of Agriculture & Fisheries (DAF) during the 2022-23 financial year.
 - b. Queensland welcomes the opportunity to continue to work with Animal Health Australia, Plant Health Australia and other jurisdictions with the aim of improving NAHIP, particularly regarding data standards, data sharing agreements and uploading and viewing of data (i.e., AUSPestCheck).

BACKGROUND

2. This report discusses NAHIP activities undertaken by Queensland during the 2022-2023 financial year.

DISCUSSION

3. Queensland collects, collates and uploads data quarterly into NAHIS, provides report summaries, contributes towards the publications of Animal Health Surveillance Quarterly (AHSQ) and Animal Health in Australia (AHiA), and participates on the NAHIP advisory committee, as per ongoing NAHIP responsibilities.
4. During the 2022-23 financial year, Queensland's Biosecurity Sciences Laboratory received a total of 4595 submissions for which animal, location, epidemiological and laboratory testing data formed the bulk of Qld's contribution to NAHIP. Most of these submissions (Figure 1) were submitted under Queensland's passive surveillance (disease investigation) program, including those supported (partly funded) by the NSDIP program. Minor contributions were also made from a small number of submissions to private and interstate government laboratories.

Total Jobs by Reason for Test

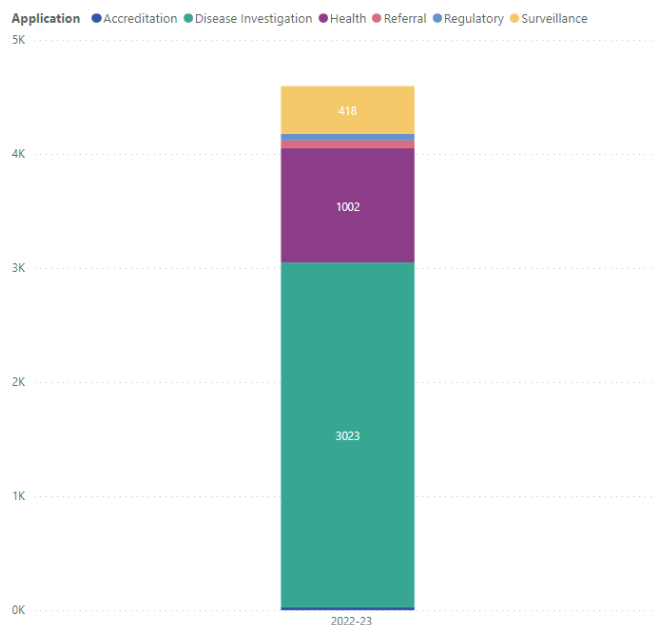


Figure 1 - Terrestrial animal (inc. bee) submissions relevant to NAHIS reporting, by reason.

5. In 2022-23 Queensland submitted one case report for the State and Territory Report within AHSQ.
 - a. *Systemic necrotising vasculitis associated with ovine herpesvirus 2 in a scrapie-negative sheep*; S Ossedryver and E Lee
Volume 28, Issue 1, TBA
6. In 2022-23 Queensland submitted one feature article within AHSQ.
 - a. *Two Far North Queensland families with a long-term commitment to the National Arbovirus Monitoring Program*; B Hill
Volume 27, Issue 4, pp 4-5, Dec 2022
7. A summary of Queensland's cases uploaded to NAHIS for the 2022-23 financial year appears in Attachment A.
8. The collection, collation and checking of data for uploading to NAHIS remains onerous despite our pursuit of improvements in automated extraction of such data from our Laboratory Information Management System (LIMS) with the Queensland coordinator contributing a significant proportion of FTE to this task. There is a considerable in-kind contribution by Queensland to meet the responsibilities of this program.
9. Queensland welcomes the opportunity to continue to work with Animal Health Australia, Plant Health Australia and other jurisdictions with the aim of improving NAHIP, particularly regarding data standards, data sharing agreements and uploading and viewing of data (i.e., AUSPestCheck)
10. Phase 1 of an ICT reporting enhancement project on improvements in extracting surveillance data for NAHIP data from our Laboratory Information Management System (LIMS) occurred in 2022-23. This work is in preparation to moving NAHIP reporting to AUSPestCheck (APC) as well as improving laboratory data retrieval during responses. Phase 2 of the ICT project to enhance national surveillance reporting will take place in the 2023-24 financial year.
11. Queensland remains committed to actively participating in the development of laboratory standards to ensure consistency of reporting across all jurisdictions for all status options and has

assigned Selina Ossedryver as the Queensland representative to the laboratory standards subgroup for this purpose. Queensland acknowledges the efforts of NSW in this space to date.

FINANCIAL ACTIVITIES

12. The availability of funds via the AUSPestCheck project will provide a valuable contribution towards greater automation of data collation, thereby reducing the burden on the coordinator. Qld thanks AHA and PHA for this opportunity.

FEEDBACK

13. Queensland would like an update from AHA on the progress on the action items arising from the June annual conference and workshops, particularly in relation to the data sharing agreement and data standards.

Attachment A: Summary of NAHIS – Qld 2022-23

Attachment A: Summary of NAHIS reports FY2022-23

Tab code	Description	Negative (job count per species)	Positive (count per species)	Total
ATX2	anthrax investigations – for OIE	10 x cattle 1 x sheep	nil	11 jobs
AVI1	aviary/caged birds for avian influenza and Newcastle disease	10 x AI&ND (export) 3 x AI&ND (disease inv.) 1 x ND (disease inv.)	nil	14 jobs
BRA2	serological tests <i>Brucella abortus</i> – NOT abortion	4 x AI entry 7 x dis.inv. 58 x export 10 x health	nil	79 jobs • 223 cattle • 4620 goats • 200 sheep
BRA3	serological tests <i>Brucella abortus</i> – WITH abortion	23 jobs	nil	130 cattle
BRO1	ovine brucellosis accreditation schemes	n/a	n/a	85 accred.free herds at end of FY22-23
EBL2	enzootic bovine leucosis in beef cattle (excluding disease investigations)	• 2 x AI entry • 18 x export • 54 x health	1 x health test	75 jobs (462 cattle)
EHV1	equine herpesvirus -1	• 67 x dis.inv. • 1 x export • 6 x health	nil	74 jobs

EIA1	equine infectious anaemia	• 6 x disease inv. • 26 x health tests • 159 x export	1 health test job with 5 of 36 horses testing +ve	191 jobs (292 horses)
EVA1	equine viral arteritis	• 1 x dis.inv. • 27 x health • 123 x export	1 health test job (1 horse)	152 jobs (259 horses)
POU1 (AI)	commercial and backyard poultry for avian influenza and Newcastle disease (NOT caged birds)	44 x dis.inv.	1 x dis.inv. (H2N9)	45 jobs (88 birds)
POU1 (ND)	commercial and backyard poultry for avian influenza and Newcastle disease (NOT caged birds)	43 x dis.inv.	1 x dis.inv. (V4 strain)	44 jobs (84 birds)

NNDI table	Count of submissions for disease investigations		
DISEASE	neg	pos	Total
Bluetongue, clinical disease	8 cattle 2 deer 1 goat 5 sheep	0	16
Epizootic haemorrhagic disease (clinical disease)	1 deer	0	1
Infection with African horse sickness virus	73 horse	0	73
Infection with African swine fever virus	25 pig	0	25
Infection with Aujeszky's disease virus (pseudorabies virus)	14 pig	0	14
Infection with Australian bat lyssavirus ¹	28 horse	0	28
Infection with <i>Babesia bovis</i>, <i>B. bigemina</i> or <i>B. divergens</i> (bovine babesiosis) in tick free areas	0	2	2
Infection with bovine leukaemia virus (enzootic bovine leucosis)	6 cattle	0	6
Infection with bovine virus diarrhoea virus (type 2)	1 alpaca 230 cattle 5 goat 1 sheep	0	237
Infection with <i>Brucella abortus</i>	2 pig	0	2
Infection with <i>Brucella canis</i>	27 dog	0	27

¹ ABLV testing in bats is reported by our WHA coordinator (Anita) via WHA.

DISEASE	neg	pos	Total
Infection with <i>Brucella melitensis</i>	1 goat 1 sheep	0	2
Infection with <i>Brucella suis</i>	172 dog 1 goat 4 pig	33 dog	210
Infection with <i>Chlamydophila abortus</i> (enzootic abortion of ewes, ovine chlamydiosis)	7 sheep	0	7
Infection with classical swine fever virus	30 pig	0	30
Infection with Eastern, Western or Venezuelan equine encephalomyelitis viruses	18 horse	0	18
Infection with <i>Ehrlichia canis</i> (Ehrlichiosis)	144 dog	19	163
Infection with equine influenza virus	1 horse	0	1
Infection with foot and mouth disease virus	1 alpaca 13 cattle 2 goat 3 sheep	0	19
Infection with Hendra virus	5 donkey 485 horse	1 horse	491
Infection with Influenza A viruses in swine	4 pig	2 ²	6
Infection with Japanese encephalitis virus	3 cattle 15 horse 31 pig	1 pig	50

² Sequenced H3N2.

DISEASE	neg	pos	Total
Infection with lumpy skin disease virus	36 cattle 1 deer	0	37
Infection with Menangle virus	7 pig	0	7
Infection with <i>Mycoplasma capricolum</i> subsp. <i>capripneumoniae</i> (contagious caprine pleuropneumonia)	2 goat 1 sheep	0	3
Infection with <i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> SC (Contagious bovine pleuropneumonia)	16 cattle	0	16
Infection with Nipah virus	1 pig	0	1
Infection with peste des petits ruminants virus	1 sheep	0	1
Infection with porcine epidemic diarrhoea virus	2 pig	0	2
Infection with porcine reproductive and respiratory syndrome virus	17 pig	0	17
Infection with Rift Valley fever virus	1 sheep	0	1
Infection with <i>Salmonella abortus-ovis</i> (salmonellosis)	5 sheep	0	5
Infection with <i>Salmonella enteritidis</i> in poultry	6 chicken	0	6
Infection with sheep pox virus or goat pox virus	1 sheep	0	1
Infection with Teschovirus A (porcine enteroviral encephalomyelitis)	1 pig	0	1

DISEASE	neg	pos	Total
Infection with transmissible gastroenteritis coronavirus	2 pig	0	2
Infection with vesicular stomatitis virus	1 alpaca 13 cattle 3 sheep	0	17
Paratuberculosis (JD) clinical disease	1 alpaca 39 cattle 2 sheep	0 alpaca 1 cattle 0 sheep	43
West Nile virus (clinical disease)	8 horse	0	8
Screw-worm flies <i>Chrysomya bezziana</i> (Old World Screw-worm) <i>Cochliomyia hominivorax</i> (New World screwworm), & Warble fly	2 cattle 1 dog 2 sheep	0	5

Diseases of Bees	neg	pos	Total
Infection of bees with <i>Paenibacillus</i> larvae (American foulbrood)	49	47	96
Infection of bees with <i>Melissococcus plutonius</i> (European foulbrood)	83	13	96
Infestation of bees with <i>Tropilaelaps clareae</i> or <i>T. mercedesae</i> (Tropilaelaps mite)	4	0	4
Infestation of bees with <i>Varroa destructor</i> or <i>V. jacobsoni</i> (Varroosis)	4	0	4

Screw-worm & Warble flies	neg	pos	Total
Infestation with <i>Chrysomya bezziana</i> (Old World Screwworm)	2 cattle 1 dog 2 sheep	0	5
Infestation with <i>Cochliomyia hominivorax</i> (New World screwworm)	2 cattle 1 dog 2 sheep	0	5
Infestation with Warble-fly (warble-fly myiasis)	2 cattle 1 dog 2 sheep	0	5