



NAHDIS

NATIONAL ANIMAL HEALTH DISEASES SYSTEM

BACKGROUND

- ▶ Accurate disease surveillance and reliable disease record-keeping should be an integral and key component of all government veterinary services;
- ▶ All countries should have a fully operational disease information system;
- ▶ Such a system is essential as part of the national animal disease emergency preparedness planning.

PURPOSE

- ▶ To demonstrate the integrated and transparent nature of disease surveillance and reporting;
- ▶ To provide the primary source of information for government relating to animal health and veterinary public health;
- ▶ To provide reporting mechanisms that reflect comprehensive summary level animal disease status and other customised reports (e.g. disease occurrence, specific condition tendencies etc).

DISEASE DATA

- Data is generated from abattoir record-keeping in the form of the “Schedule 8”;
- Currently the Schedule 8 is being completed by hand and submitted to the relevant governmental offices;
- This manual system is often laborious and there are time delays;
- Occasionally the outbreak of notifiable diseases are not reacted on.



December 2016		Calves	Cattle	Goats	Ostrich	Pigs	Sheep	
SLAUGHTERED	Total Slaughtered	189	112811	3	5133	61410	220188	
	Conditionally Passed Carcases		326			8		
CONDEMNATION STATISTICS	Controlled Animal Diseases Zoonoses					3		
	Degenerative Conditions		1		1	1	19	
Septic and Inflammatory Conditions	Necrosis				1			
	Oedema					1	6	
	Abscessations					10	3	
	Arthritis					46	7	
	Enteritis/Gastritis					3		
	Gangrene		3					
	Lymphadenitis					1		
	Peritonitis/Pleuritis		45			4		
	Pyemia/Septicaemia/Toxaemia		1			13	2	
	Tail bite necrosis					8		
Parasitic or Infectious Condition	Ursemia/Nephritis					1	1	
	Cysticercosis		8					
General Aesthetic Conditions	Abnormal Pigmentation						1	
	Anaemia		1			4	1	
	Bruising / Injuries		5			10	9	
	Fever		5			7	6	
	Icterus		2			9	14	
	Immaturity					5		
	Insufficient bleeding					3		
	Overcaulding (Pig)					12		
	Pneumonia		1					
	Wet Carcase Syndrome		1				112	
	Other	Blue Udder						2
		Cattle Carcass		14				
LAIRAGE REPORT	NUMBER OF ANIMALS -	Pig Carcass				2		
		Dead in pen		7		14	4	
		Dead on arrival		7		19	13	
		Destroyed		3			1	
		Down in pen		10				
		Down on arrival		4			6	

Schedule 8 Summary Report

Specie: All

Province: All

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Date: 2017-03-07 13:59:36

December 2016		Disease/Condition	Calves	Cattle	Goats	Ostrich	Pigs	Sheep	
SLAUGHTERED	Total Slaughtered		189	112811	3	3133	61410	220188	
	Conditionally Passed Carcases	Cysticercosis		326			8		
CONDEMNATION STATISTICS	Controlled Animal Diseases Zoonoses	Erysipelas					3		
		Degenerative Conditions	Cachexia		1		1	15	
		Necrosis				1			
		Oedema				1	6		
	Septic and Inflammatory Conditions	Abscessations					10	3	
		Arthritis					46	7	
		Enteritis/Gastritis					3		
		Gangrene			3				
		Lymphadenitis					1		
		Peritonitis/Pleurias			45		4		
		Pyemia/Septicaemia/Toxaemia			1		13	2	
		Tail bite necrosis					8		
		Uræmia/Nephritis					1	1	
	Parasitic or Infectious Condition	Cysticercosis		8					
	General Aesthetic Conditions	Abnormal Pigmentation							1
		Anaemia			1		4	1	
		Bruising / Injuries			3		10	9	
		Fever			3		7	6	
		Icterus			2		9	14	
		Immaturity					3		
Insufficient bleeding						3			
Overscalding (Pig)						12			
Pneumonia				1					
Wet Carcase Syndrome				1				112	
Other	Blue udder						2		

NAHDIS

National Animal Health Diseases Information System

- NAHDIS was developed is a web-based interactive system that can be accessed from anywhere and has the latest data available in real-time;
- Captures the data as recorded on the Schedule 8;
- Notifiable diseases are reported immediately by means of a system generated email;
- Intelligent reporting is possible.

SECURITY

- ▶ The system has a number of security features which include firewalls, passwords etc;
- ▶ Information is kept confidential and secure;
- ▶ Specific information is only accessible by authorised people;
- ▶ Each user has a level of authorisation which allows access to the system and information contained therein.

USERS

- NEOs (All information)
- PEOs (Only allocated abattoirs' information)
- State Veterinarians (Respective provincial information)
- Meat Inspectors (Respective abattoir information)

Each user is allocated a role and this allows the user to access information as defined by the role.

THE SYSTEM

- ▶ Inspectors based at the abattoir capture the data on the system;
- ▶ A new form is created for each month;
- ▶ Upon submission an email gets sent to the PEO responsible for that abattoir;
- ▶ PEO will review and approve or reject the report.



REPORTS

- ▶ Annual Submission Report
 - ▶ Indicates the abattoirs that routinely submit the disease information
 - ▶ Report can be filtered by:
 - ▶ Year
 - ▶ Province



NATIONAL ANIMAL HEALTH DISEASE INFORMATION SYSTEM

Annual Submission Report

Printed by: THERESA DIOGO

Date: 2017-02-09 12:05:39

✓ ■ Approved ? ■ Submitted () ■ In Progress [blank] ■ No Information

Province	Abattoir	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Eastern Cape	Graaff-Reinet Abattoir 6/56	✓	✓	✓	✓	✓	✓		?		✓	✓	?
	Karnoor Abattoir 6/29	✓	✓	✓	✓		✓		?	✓	✓	✓	✓
	Karoo Natal Middleburg Abattoir 6/39	✓	✓	✓	✓	✓			?	✓	✓	✓	✓
	Kei Livestock Abattoir 6/79	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
	Stormberg Abattoir 6/40								?			✓	?
Free State	BBB Abattoir Heilbron Abattoir Bk 4/098										✓		
	Bloemfontein Abattoir 4/003						()				()	()	
	Bulberg Abattoir 4/026									✓	✓	✓	
	Clocolan Abattoir 4/007	✓	✓	✓	✓	✓	✓				✓	✓	
	Huntersvlei Farm Fresh 4/022	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓
	Just Pork 4/002	✓	✓	✓	()	()				✓	✓	()	()
	Meadow Meats Wesselsbron 4/031	✓	✓	✓	✓	✓	✓				✓		
	Metaalkop 4/061	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Milos Abattoir 4/073	✓	✓		✓	✓	✓	✓		✓			✓
	Straw Lamb 4/042	✓	✓	✓	✓	✓							
	Thaba N'chu 4/020				()						✓		
	Twin Palms Meat Abattoir 4/012	✓	✓	✓	✓	✓							()

REPORTS

- Disease Summary Report
 - Indicates the diseases reported
 - Report can be filtered by:
 - Period
 - Abattoir
 - Province
 - Species
 - Disease/Condition

REPORTS

- Disease Percentage Relation Report
 - Indicates the percentage of diseases reported in relation to its own; local; provincial, national slaughter figures
 - Report can be filtered by:
 - Period
 - Abattoir
 - Province
 - Disease/Condition



NATIONAL ANIMAL HEALTH DISEASE INFORMATION SYSTEM

Disease Percentage Relation Report

Start period: 2016-01-01

End period: 2016-12-31

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Date: 2017-03-07 10:47:01

Disease	Local Province	Abattoir	Disease % of Slaughtered	% of Local Province	Province % of National	Disease % of National
Abscessations	Eastern Cape	Cradock Abattoir	0.0473%	0.0063 %	0.0005 %	0.0239 %
		Karoo Abattoir	0.1334%	0.0040 %	0.0005 %	0.0239 %
		Stomberg Abattoir	0.1707%	0.0047 %	0.0005 %	0.0239 %
	Free State	Bulberg Abattoir	1.0764%	0.0048 %	0.0152 %	0.0239 %
		Huntersvlei Farm Fresh	0.0044%	0.0010 %	0.0152 %	0.0239 %
		Just Pork	0.0106%	0.0010 %	0.0152 %	0.0239 %
		Meadow Meats Wesselsbron	3.4313%	0.2497 %	0.0152 %	0.0239 %
		Milos Abattoir	0.0327%	0.0034 %	0.0152 %	0.0239 %
		Wolfa Terblanche	0.0644%	0.0078 %	0.0152 %	0.0239 %
		Wolfsburg	0.0000%	0.0000 %	0.0152 %	0.0239 %
	Gauteng	ASA Benoni	0.0038%	0.0002 %	0.0022 %	0.0239 %
		Bavianspoort Abattoir	0.0508%	0.0002 %	0.0022 %	0.0239 %
		Cavalier Abattoir	0.0015%	0.0004 %	0.0022 %	0.0239 %
		Enterprise Pork Packers	0.0165%	0.0069 %	0.0022 %	0.0239 %
		R & R (Pty) Ltd	0.0461%	0.0066 %	0.0022 %	0.0239 %
	KZN	Darnall	0.0111%	0.0030 %	0.0005 %	0.0239 %
		Freys Cato Ridge	0.0048%	0.0013 %	0.0005 %	0.0239 %
		Scheepersnek	1.8470%	0.0024 %	0.0005 %	0.0239 %
	Limpopo	Gaza Beef	0.0228%	0.0063 %	0.0001 %	0.0239 %
		Phalaborwa	0.0073%	0.0031 %	0.0001 %	0.0239 %
	Mpumalanga	Baberton Correctional Services	0.0087%	0.0006 %	0.0023 %	0.0239 %
		Karan Beef	0.0015%	0.0011 %	0.0023 %	0.0239 %
		Nkomazi Red Meat Abattoir	4.5455%	0.0026 %	0.0023 %	0.0239 %
		Volkrust	0.3469%	0.0111 %	0.0023 %	0.0239 %
	Northern Cape	Calvinia Lande	0.0018%	0.0002 %	0.0009 %	0.0239 %
		Calvinia Ramskop	0.0040%	0.0002 %	0.0009 %	0.0239 %
		Ramskop (Calvinia abattoir)	0.0038%	0.0003 %	0.0009 %	0.0239 %
Werde Abattoir		0.1309%	0.0025 %	0.0009 %	0.0239 %	
Western Cape	Hesseque Abattoir	0.0016%	0.0002 %	0.0023 %	0.0239 %	
	Wineands Pork Abattoir	0.0109%	0.0031 %	0.0023 %	0.0239 %	

REPORTS

- Notifiable Disease Report
 - Indicates the notifiable diseases reported along with the farmers information
 - Report can be filtered by:
 - Period
 - Abattoir
 - Province
 - Species
 - Disease/Condition

NATIONAL ANIMAL HEALTH DISEASE
INFORMATION SYSTEM

Notifiable Disease Report

Start period: 2016-01-01

End period: 2016-12-31

Disease: All

Printed by: LOUIS VISAGIE

Abattoir: All

Province: All

Species: All

Date: 2017-03-07 13:39

Abattoir	Disease/Condition	Species	Qty	Comments
ASA Benoni	Erysipelas	Pigs	1	
Bonnievale Abattoir	Erysipelas	Pigs	2	Farmer 1 : 1 Farmer 2 : 1
Enterprise Pork Packers	Erysipelas	Pigs	3	
Freys Cato Ridge	Erysipelas	Pigs	1	
Huntersvlei Farm Fresh	Erysipelas	Pigs	1	
Just Pork	Erysipelas	Pigs	1	
	Tuberculosis	Pigs	3	
Milos Abattoir	Erysipelas	Pigs	2	
Neosotho Trading (Boston)	Erysipelas	Pigs	1	
Phalaborwa	Erysipelas	Pigs	20	
R & R (Pty) Ltd	Erysipelas	Pigs	4	Unkown : 4
			6	
Ramburg Pork (Piet Retief)	Erysipelas	Pigs	6	
Winelands Pork Abattoir	Erysipelas	Pigs	2	
			3	Winelands : 1 Winelands : 1 Winelands : 1
			19	Farmer to be confirmed : 19

REPORTS

- Slaughter Report
 - Indicates the slaughter figures
 - Report can be filtered by:
 - Period
 - Abattoir
 - Province
 - Species

Abattoir	Calves	Cattle	Crocodiles	Game	Goats	Ostrich	Pigs	Sheep
Rooidag Abattoir								17007
Scheepersnek		298						81
Stormberg Abattoir		947						2568
Straw Lamb								43844
Strydfontein		6035						882
Thaba Kwena Abattoir			9447					
Thaba N'chu		453					347	338
Top Grade		13403						
Triple A Beef		27532						
Triple C		10819						84
Twin Palms Meat Abattoir		8713					957	1204
Volkstrust		16732						274
Voorberg Abattoir		173						1861
Vredefort Abattoir		12301						943
Werda Abattoir							145	18958
Williston					62			106648
Winelands Pork Abattoir							414381	
Witbank		19265						
Wolla Terblanche								24829
Worcester Abattoir	48	1583					1901	10464
Zonderwater Red Meat		39						
Total	6209	819936	9447	10170	203	30376	1196660	1735932

Conclusion

- ▶ Industry and governmental departments needs this information
- ▶ Can be developed further to assist with the following:
 - ▶ Imports and exports module
 - ▶ Veterinary laboratory results
 - ▶ Farm registration and information
 - ▶ Brucellosis or any notifiable disease monitoring
 - ▶ Residue monitoring programs
- ▶ We hope to develop this into a total traceability system

Thank You Questions?

➤ For more info: info@afsq.co.za