



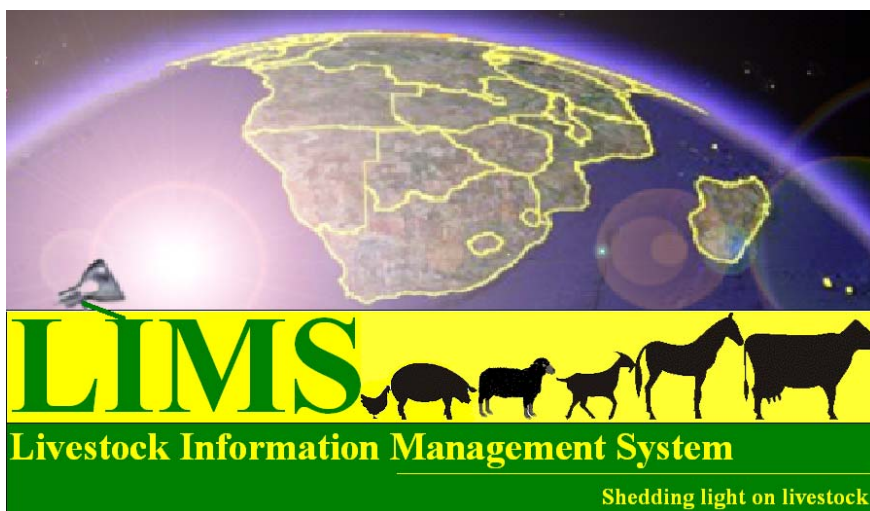
SADC SECRETARIAT



EUROPEAN DEVELOPMENT FUND

Promotion of Regional Integration in the SADC Livestock Sector (PRINT Livestock Project)

9 ACP SAD 002



Report on LIMS Adoption Mission to Lesotho

PRINT Report N°: GW/GO-01-LS-08/2008

By

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Dates: 05 – 14 August 2008

ACKNOWLEDGMENTS

We would like to thank Dr. Mumba Tembo, PRINT Focal Person for taking the lead in facilitating the organisation of the mission.

1. INTRODUCTION

One of the major results expected from PRINT Livestock project is the establishment of the Livestock Information Management System (LIMS). Most of the Project's activities during the previous years were geared towards gathering the necessary information (situation analysis, information needs assessment) and preparing conditions (developing templates, purchasing hardware and software, training national experts and contracting software developers) for the set-up of the system. The development phase LIMS was completed by the end of July 2008 and became ready for introducing to SADC MS.

The PRINT Livestock Project has organised missions to MS to undertake the installation of the LIMS application and training of national experts. It was agreed that these missions, intended to cover all MS, start in August 2008 and continue till the beginning of next year.

2. MAIN OBJECTIVES OF THE MISSION

- 1) To launch officially the SADC Agricultural Information Management System (AIMS) and its livestock component LIMS in the country. This one-day meeting is used to create awareness on LIMS among livestock data sources and information users and map the network of stakeholders.
- 2) To train trainers on LIMS data collection templates and the operation and use of the application. This component of the mission targets the training of six to ten national experts on the use of the templates and the application with the objective to enable them to operate the system but also to prepare them to train their colleagues in the Regions or Provinces. The intensive training usually runs for three days.
- 3) To collect data on livestock from different sources in the country.

The mission to Lesotho is part of the overall LIMS adoption missions and it follows the above mentioned objectives. This mission report highlights activities conducted by the two reporting officers, Gift Wanda and Gerard Oosterwijk, between 05 and 14 August 2008 in Lesotho.

3. ITINERARY

Day	Dates	Itinerary
1	Tuesday, 05 August 2008	Travel from Gaborone to South Africa
2	Wednesday, 06 August 2008	Continue travel to Lesotho, Maseru Preparations for Stakeholders Meeting, Maseru
3	Thursday, 07 August 2008	LIMS Stakeholders Meeting, Maseru
4	Friday, 08 August 2008	Meeting key persons of MoA, BoS, etc
5-6	09 - 10 August 2008	Weekend and preparations for Training, Maseru
7-9	11 – 13 August 2008	LIMS Training of Trainers, Maseru
10	Thursday, 14 August 2008	Travel back from Lesotho to Gaborone

4. PERSONS MET

No.	Name	Designation / Organization
1	Dr. Marosi Molomo, (privately - on leave)	Director Department Livestock Services (DLS)
2	Mr. M. Hlasoa	Acting Director DLS, Chief Animal Production Officer
3	Dr. Gerard Mahloane	Director Theriogenology, DLS
4	Dr. Christopher K. Kubi	Director Laboratory Services, DLS
5	Dr. Mumba Tembo	Epidemiologist, Print Focal Person, DLS
6	Mrs. Molatoli	Bureau of Statistics (BoS)
7	Mr. Gotfried Molupe	Bureau of Statistics (BoS)
8	Mr. Makoanyane	Ministry of Trade, Industry, Coop & Trade
9	Ms. Thuso Molapo	Ministry of Trade, Industry, Coop & Trade
10	Mrs. N. Bokaako	Economic Planner, Ministry of Agriculture and Food Security

5. LIMS STAKEHOLDERS MEETING

The official launching of AIMS and LIMS in Lesotho and the Stakeholders Meeting took place on 07 August 2008 at Victoria Hotel, Maseru. The meeting was attended by 44 participants, mainly from the Department of Livestock Services (DLS) and some from other Departments of the Ministry of Agriculture and Food Security. Also a few persons from other Ministries/Institutions attended. The detailed list of participants is attached as annex 3.

As the Director of DLS was on leave, the Director of Theriogenology, Dr. Gerard Mahloane officially launched AIMS and LIMS. Dr. Mahloane, in his LIMS launching speech, emphasised that LIMS is in line with the Government of Lesotho efforts of pursuing national development using a result-based agenda and the focus on evidence-based policy, which increases the demand for quality statistical information. He urged the technical personnel and professionals in the livestock sector to take advantage of the LIMS and ultimately AIMS for local use and for the promotion of regional integration, economic development and poverty reduction in SADC.

During the Stakeholders Meeting the following presentations and discussions took place.

- Introducing PRINT Project
- Background of AIMS/LIMS
- Introduction to LIMS
- Demonstration of the LIMS templates
- Demonstration of LIMS database
- Demonstration of LIMS Portal
- Data sources and networking with stakeholders

The major points raised by the participants during the discussion included:

- The huge data collection task at field level and coordination of data entry at HQ level.
- The plans to include missing components of LIMS, such as animal genetic resources (breeding), rangeland management, etc.
- How to share information generated from LIMS country-wide (feed-back).
- Meat Inspection (module7) and Livestock Products (module 3) need to include columns regarding Halaal and Emergency slaughters.
- More info is required regarding characteristics of vaccines (e.g. withdrawal period, prophylactic period)

Figure 1: Participants of the LIMS Stakeholders Meeting at Victoria Hotel on 07 August 2008



The last part of the Stakeholders Meeting was devoted to the identification of data sources and mapping of the network of livestock information. The participants were divided into four groups to cover the modules related to: 1) Animal Production, 2) Animal Health 3) Marketing and Trade and 4) Livestock Development. Using a flip chart, data sources for the four LIMS components were identified. Dr. Mumba Tembo was requested to be the overall LIMS Coordinator.

6. TRAINING OF TRAINERS ON LIMS TEMPLATES AND APPLICATION

A total of twelve trainees were nominated by different departments for the Training of Trainers. The training took place at the HQs of the Department of Livestock Services in Maseru. The following is the list of participants.

List of participants of the LIMS training

No.	Name of trainee	Sex	Designation / Organization
1	Dr. Christopher K. Kubi	M	Director Laboratory Services, DLS
2	Dr. Mumba Tembo	M	Epidemiologist, PRINT Focal Person, DLS
3	Mr. Teboho Martins	M	Principal Livestock Development Officer, Data Management, DLS
4	Mr. Thaane Hlalele	M	Veterinary Public Health Officer, DLS
5	Mr. M. Pule	M	Animal Production Officer, DLS
6	Mr. M. Palime	M	Animal Production Officer, DLS
7	Ms. N. Morokole	F	Fishery Officer, DLS
8	Mr. T. Sekhonyana	M	Animal Production Officer, DLS
9	Mr. P. Ntho	M	Animal Production Officer, DLS
10	Mr. Neo J. Mosito	M	Animal Production Officer, DLS
11	Dr. Mosa Mots'oene	F	District Veterinary Officer, DLS
12	Miss Thuso Molapo	F	Ass. Marketing Officer, Ministry of Trade Industry Coop & Marketing

The Training of Trainers is meant primarily to enable national experts to operate LIMS and that they can conduct similar training, at a later stage, for livestock information officers at district level. The training of regional experts is a prerequisite for the roll-out of LIMS at that level.

Figure 2: LIMS template and application training in Lesotho in progress



The LIMS training had two major components. These are the training on the LIMS template and the training on the operation and use of the LIMS application.

- a) Training on the LIMS templates – Before embarking on data entry to the database, trainees need to know the data collection forms or templates. The knowledge of what type of data is collected, how often and the right columns where these should be entered are crucial for better understanding of the database at a later stage. Hence, among the 11 modules, representative LIMS templates were selected and each was described to the trainees. Additional information included as footnotes for the selection of parameters where there are multiple choices to pick from were also covered. The trainees were briefed on the Standard Operating Procedure for providing comments and suggestions for further improvement of the templates as well as for daily use when these are introduced to the grass roots from where data is captured on paper copies or MS Excel sheet. The trainees also received both the electronic and hard copy prints of all the templates for the 11 modules of LIMS.
- b) Training on the LIMS application – This component of the training focused on the proper operation and use of the LIMS database. Trainees were taken through the installation and configuration of the application, data entry and modification, query building, report generation, export of data for final analysis and procedures for backing up data and transfer data files between different installation. The complete training timetable is attached as annex 2. During the training of the three days, most of the 11 modules were covered, first by demonstration followed by exercise using live and in some cases dummy data. Due to the bugs in the application, some of the modules were not fully covered. However, since the operations involving data entry, modification and query are similar for almost all modules of the LIMS application, trainees would not have difficulties managing the remaining modules.

The training on the LIMS templates and the application was conducted relatively smoothly. However much time was devoted to aligning existing data columns, scope and structure with the columns of the Templates. A notable example of problems relating to alignment of the existing data columns with the LIMS templates was noted in relation to the definition of dual purpose with respect to cows. In the Lesotho situation, dual purpose refers to milk production and draught power as opposed to the well known combination of milk and meat. This aspect is difficult and requires time as the existing reporting system, implemented by different actors, will likely not adopt immediately the new LIMS Templates. It is worth noting that Lesotho expressed

willingness to adopt in full and hopefully with immediate effect the LIMS templates as their existing ones are not fully developed and in most cases non existent. There were indications that the LIMS templates would be presented to the Central Statistical Office for adoption for livestock statistics.

The following “bugs” were detected with LIMS version 05Aug08:

General

1. Backup facility not functional
2. Data transfer not possible
3. Export/import data was working on some computers with XP, not on Vista.

Specific

1. Module 1. Problems with generating reports for sheep and goats (missing young animals). Likely same problem will occur with pigs. Sometimes get error messages of exceeding a certain number even when you try to enter a lower number.
2. Module 5. Gives different currency conversion factors on different computers
3. Module 5. Report transfer to Excel not possible
4. Module 6. All the queries are not working, the option for query of government institutions is not available from the Menu
5. Module 6. Problems with data entry with Industrial Abattoir
6. Module 7. Data export facility not functional
7. Module 8. Query for service providers => name of owner not appearing
8. Module 9. Does not accept years earlier than 1930 (need to change validation rule, as some Acts have reference years earlier than 1930)
9. Module 10. All the queries are not working, data export facility not functional
10. Module 11. Data export facility not functional

There was a proposal to automate data back up in terms of source and destination to avoid mistakes when typing the path. This should include automatic date and time of backup.

There was question specific for Lesotho: is installation of LIMS possible at District level when you do not have provision for provinces/regions? Now at partition 1, it gives only one option: “all districts”.

7. DATA COLLECTION

The third objective of this mission was to collect livestock data from different sources in the country. Visits were made to Lesotho Bureau of Statistics (Agricultural Statistic Division), to the Department of Planning and Policy Analysis of the Ministry of Agriculture and Food Security and to the Ministry of Trade, Industry, and Cooperatives & Marketing. A softcopy was obtained from the Department of Planning and Policy Analysis regarding “Livestock Statistics Report – 2005/06 Agriculture Year” (hard copy not yet available). This report has mainly livestock numbers. Also softcopies were obtained of following reports: “The Lesotho Agricultural Situation Report 2000/2001, 2001/2002 and 2004/2005”. This last report is still in draft form. The Agricultural Sector Situation Reports are regular publications of the Department of Planning and Policy Analysis of the Ministry of Agriculture and Food Security, in conjunction with the Bureau of Statistics (BoS). BoS has following website www.bos.gov.ls with additional information mainly on livestock numbers and some data on livestock products (e.g. milk). BoS has also some data on Trade, but this info is not being published according to HS codes. However they can make customised reports on request.

8. OTHER MATTERS

During the mission, the reporting officers discussed other matters of concern with relevant officers.

Purchase of Anti-virus – The Department requested PRINT to procure an anti-virus program for their computers. In due course, they will send three quotations to PRINT for consideration.

LIMS Promotion Materials – LIMS promotion materials (T-shirts, caps, key-hangers, etc) only became available after the Lesotho mission. PRINT office will send soonest these promotion materials to the participants of the Lesotho Stakeholders Meeting and LIMS Training.

9. CONCLUSION AND THE WAY FORWARD

The overall assessment of the mission shows that the objectives were met. However the LIMS Adoption Mission needs follow-ups regarding training and data entry to keep the momentum going. A LIMS application version without bugs is a prerequisite before additional training in LIMS can take place. Only when these two conditions are in place (a LIMS application without bugs and confident trained LIMS operators), the next phase can take place: entering real data following the LIMS templates and sending the data set to the SADC Secretariat. However, this requires a full time Livestock Information Coordinator to make the national LIMS viable and sustainable. In the absence of a fully functional LIMS application, Lesotho will not start entering data into LIMS application until a final approved version is released.



SADC PRINT LIVESTOCK PROJECT

AGENDA STAKEHOLDERS MEETING



**LIVESTOCK INFORMATION MANAGEMENT SYSTEM (LIMS)
07th AUGUST 2008, VICTORIA HOTEL, MASERU, LESOTHO**

8:00 – 8:30	Registration
8:30 - 09:00	Opening remarks Introductory and welcome remarks by DLS Remarks by the PRINT STAFF – Mr. G. Oosterwijk
09:00 – 09:30	Introducing LIMS and AIMS – Dr. G. Wanda
09:30 – 09:45	Discussion
09:45 – 11:00	Demonstration LIMS Database & Template (AP) - Mr. G. Oosterwijk
11:00 – 11:15	Tea Break
11:15 – 11:30	Discussion
11:30 – 12:30	Demonstration LIMS Database & Template (AH) – Dr. G. Wanda
12:30 – 13:00	Discussion LIMS application
13:00 – 14:00	LUNCH
14:00 - 15:00	Continuation demonstration of the LIMS reporting templates <ul style="list-style-type: none">• Animal Production (AP) – Mr. G. Oosterwijk• Animal Health (AH) – Dr. G. Wanda• Livestock Marketing and Trade (LMT) – Mr. G. Oosterwijk• Livestock Development (LD) – Dr. G. Wanda
15:00 -15:15	Data sources and networking with stakeholders – Dr. G. Wanda
15:15 – 15:45	Tea Break
15:45 – 16.15	Thematic group discussion on Data sources and Networking (AP, AH, LMT and LD)
16.15 – 17.00	Presentations of Group discussions
17:00	Closure

Annex 2. Timetable for Training on the LIMS template and application



AGENDA FOR LIMS TRAINING OF TRAINERS, 11 to 13 August 2008, VENUE – DIRECTORATE OF LIVESTOCK SERVICES, MASERU, LESOTHO.

DAY 1 – Monday 11 August 2008

8:00 – 8:15	Introduction - Training objectives
8:15 - 9:00	Installation <ol style="list-style-type: none">1. First time installation2. Key files and folders3. Uninstalling4. Re-installing
9:00 – 10:30	Basic concept of LIMS operation <ol style="list-style-type: none">1. Opening, navigation and closing the application2. Menu and sub-menu structure
10:30 – 11:00	TEA BREAK
11:00 – 11:30	Basic concept of LIMS operation (Continued) <ol style="list-style-type: none">3. Standard tool bar and other GUI
11:30 – 12:00	Administration: Access Control <ol style="list-style-type: none">1. Creating users2. Assigning roles and granting rights
12:00 – 13:00	Data entry, modification and saving <ol style="list-style-type: none">1. Livestock numbers and composition (Module 1 – Template and database)
13:00 – 14:00	LUNCH
14:00 - 14:30	Data entry, modification and saving (continued) <ol style="list-style-type: none">1. Livestock numbers and composition (Module 1 - Template and database)
14:30 – 15:30	<ol style="list-style-type: none">2. Livestock Products (Module 3 - Template and database)
15:30 – 16:00	TEA BREAK
16:00 – 17:00	<ol style="list-style-type: none">3. Livestock Trade (Module 5 - Template and database)

DAY 2 – Tuesday 12 August 2008

8:00 – 9:00	Revision of day 1 - Discussion
9:00 – 10:30	Data entry, modification and saving (continued) <ol style="list-style-type: none">3. Livestock Infrastructure (Module 6 - Template and database)

10:30 – 11:00	TEA BREAK
11:00 – 11:30	Data entry, modification and saving (continued) 4. Meat Inspection (Module 7 - Template and database)
11:30 – 13:00	Data entry, modification and saving (continued) 5. Laws, regulations and acts (Module 9 - Template and database) Data entry, modification and saving (continued) 6. Disease Report (Module 10 - Template and database)
13:00– 14:00	LUNCH
14:00 – 15:30	Building queries, generating reports and exporting query results 1. Livestock numbers and composition (Module 1) 2. Livestock Products (Module 3)
15:30 – 16:00	TEA BREAK
16:00 – 17:00	3. Livestock Trade (Module 5)

DAY 3 – Wednesday 13 August 2008

8:00 – 9:00	Revision of day 2 - Discussion
9:00 – 10:30	Building queries, generating reports and exporting query results (continued) 4. Meat Inspection (Module 7) 5. Disease Report (Module 10)
10:30 – 11:00	TEA BREAK
11:00 – 11:30	Building queries, generating reports and exporting query results (continued) 5. Disease Report (Module 10) Cont.
11:30 – 13:00	Data exporting for further analysis
13:00 – 14:00	LUNCH
14:00 - 15:30	Administration 1. Data Management: sending and receiving files (electronic reports) 2. Data Management: backup and restore
15:30 – 16:00	TEA BREAK
16:00 – 17:00	General Discussion Installation and configuration of clean copy of the database End of training course

**Annex 3: PARTICIPANTS LESOTHO PRINT LIMS ADOPTION STAKEHOLDERS' WORKSHOP, 07 August 2008
and the PARTICIPANTS OF THE LIMS TRAINING SESSION, 11 - 13 August 2008
DEPARTMENT OF LIVESTOCK SERVICES (DLS), MASERU**

Nr	H	Name	T	G	DoB	Designation	Organisation	Address	Telephone (+266)	E-mail
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3	0	Mr. Teboho Martins	1	M	31Oct81	Prin Lvstck Dev Off Data Management	DLS	P/Bag A82, Maseru	Tel:22317284, fax:22311500 mob:58796291	drmartins1@yahoo.com
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38	1	Ms. Mpolokeng Sekhesa	0	F	24Jan78	D Animal Prod Off	DFS	DAO-Berea	Tel:22500232, fax:22500006 mob:58996652	Stonza3@yahoo.com
39	1	Ms. Thakane Lekena	0	F	24Dec76	D Animal Prod Off	DFS	DAO-Mohales' Hoek	Tel:22785213, fax:22785668 mob:58996425	thakanelekena@webmail.co.za
40	1	Ms. Mankeane Mofoti	0	F	??	D Animal Prod Off	DFS	DAO-Leribe	Tel:22400281, mob:63215533	mankey@webmail.co.za
41	1	Mrs. Tsepo Lengoasa	0	F	??	D Animal Prod Off	DFS	DAO-Mafeteng	Tel:22700269, fax:22700007 mob: 58531823	mareabetsoe@webmail.co.za
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43	1	Mr. Vuyo Dyamdeki	0	M	16Nov81	D Animal Prod Off	DFS	DAO-Quthing	Tel:22750347, fax:22750002 mob:58973718	dyamdeki@yahoo.com
44	1	Itumeleng Pule	0	F	05Mar70	D Animal Prod Off	DFS	DAO-Thaba-tseka	Tel:22900231, fax:22900004 mob:63011070	-
0	0	Miss Thuso Molapo	1	F	20/Feb80	Ass Marketing Off	Min Trade Ind Coop& Mark	PO Box 1371 Maseru	Tel:22313972, fax:22310327 mob:58794377	lesthu@yahoo.com
44		Participants Workshops								
	16	Residents in Hotel								
		Participants Training	12							

Nr: 44 participants attending LIMS stakeholders' workshop on 07 August 2008

H: 16 residing at hotel for 2 nights for LIMS stakeholders' workshop on 07 August 2008 (and 28 non-residents)

T: 12 trained during LIMS training session 11-13 August 2008

G: gender; male or female. 19 females out of 44 total participants attending workshop. 3 females out 12 total participants attending train

