SPGRC

SADC Plant Genetic Resources Centre

Twenty-Ninth Annual Report
2019/2020

SPGRC
Lusaka, Zambia
2020

Participants posse for a group photo during the Regional Workshop on the use of the Web based Regional Database for Plant Genetic Resources Conservation held from 2nd – 7th of March 2020 in Johannesburg, South Africa.

(Photo: Courtesy of Mike Daka – SPGRC)

ISBN 9982-43-027-0

SADC Plant Genetic Resources Centre (SPGRC)
Farm # 6300, off Great East Road
Private Bag CH6
LUSAKA
Zambia
Tel: +260 211 399 200-1
Fax: +260-211-233746
Email: spgrc@sadc.int

URL: https://www.spgrc.org.zm

Table of Contents

Abbreviations

AAO	Assistant Administrative Officer
AFO	Assistant Finance Officer
APPSA	Agricultural Productivity Program for Southern Africa
CGIAR	Consultative Group on International Agricultural Research
CWR	Crop Wild Relative
DAR	Department of Agricultural Research
DRC	Democratic Republic of Congo
FANR	Food, Agriculture and Natural Resources (Directorate at SADC Secretariat)
FAO	Food and Agriculture Organization (United Nations)
FOFIFA	National Centre for Applied Research & Rural Dev., Madagascar
ICT	Information & Communication Technology
IITA	International Institute of Tropical Agriculture
ITPGRFA	International Treaty for Plant Genetic Resources for Food and Agriculture
Kbps	Kilo-bit per second
Mbps	Megabit per second
NPGRC	National Plant Genetic Resources Centre
NGO	Non-Governmental Organization
NPGRCom	National Plant Genetic Resources Committee
PGR	Plant Genetic Resource
PGRFA	Plant Genetic Resources for Food and Agriculture
SADC	Southern African Development Community
SDIS	SPGRC Documentation and Information System
SPGRC	SADC Plant Genetic Resources Centre
SPO	Senior Programme Officer, SADC
TCP	Technical Cooperation Programme
TEEAL	The Essential Electronic Agricultural Library
TO	Technical Officer, SPGRC

SPGRC Profile

Objectives:	– *Reduce plant genetic erosion and increase options of plant genetic resources (PGR) and seed systems to enhance productivity* – *Promote generation of knowledge and exchange of information on PGR Influence policy environment so as to improve access to and use of PGR in the region* – *Mobilize adequate financial resources for conservation and sustainable use of PGR in the SADC region*
Vision, Mission and Objectives	
Vision:	*Be the lead institution in the conservation and sustainable use of plant genetic resources, contributing to the enhancement of food security and livelihoods in the Southern African Development Community (SADC) region*
Mission:	*Mobilise, conserve and make available plant genetic resources using state-of-the-art technologies and standards, contributing to sustainable development, environment and food security for the wellbeing of the people of SADC*

Background

The Centre was established in 1989 as a 20-year project, initially funded by Nordic donors and, later supplemented with SADC member country contributions on an increasing scale - until the end of the project in 2011when Member States started to fully fund SADC Plant Genetic Resources Centre (SPGRC).

Located about 25 Km off Great East Road in Lusaka on an 86 ha land, generously provided by the Government of Zambia on a 99-year lease, the Centre has been entrusted and mandated with the conservation and evaluation, for sustainable utilization, of regional plant genetic resources for the present and future generations thus contributing to food security and improved livelihoods; and coordination of all activities through a network of National Plant Genetic Resources Centres (NPGRCs).

Achievements and Challenges

Though challenged by lack of adequate funding, low germplasm utilization and domestication of the ITPGRFA, outstanding construction of the biotechnology facility at SPGRC; the Centre has trained staff up to PhD level, collected over 45,000 germplasm samples from the region, implemented several projects in developing policies, strategies, provided equipment o NPGRCs, among other achievements.

1 MANAGEMENT AND ADMINISTRATION

1.1 36th SPGRC Board Meeting

SPGRC held its 36th Board meeting from 14th to 15th October 2019 in Johannesburg, South Africa which had representation from all Member States except Botswana and Mauritius.

The meeting which is strategically held annually after the Genebank Curators' Review and Planning meeting, aims to achieve the following objectives;

- To appraise the SPGRC Board of the networks' progress in implementing planned annual activities.
- To appraise the SPGRC Board of the SADC's regional decisions having potential impact on PGR conservation.
- To present to the SPGRC Board, for guidance, the proposed business plan, and budget.
- To share with the SPGRC Board the internal and external audit reports
- To obtain technical and policy guidance in the conservation and use of plant genetic resources for food and agriculture (PGRFA)

After introducing herself, the Board Chairperson, Dr. Lefulesele Lebesa welcomed the members present and apologised for the absence of the FANR Director who could not attend the meeting due to other duties. She acknowledged the presence of the Guest of Honour, Dr Jafta, from the South African Ministry of Agriculture. In her opening remarks, she stated that the network was grateful that the Member States are seriously taking the SPGRC's regional mandate of coordinating the conservation and use of PGRFA as attested by their stable financial support to ensure the sustainability of SPGRC. Dr. Lefulesele emphasised that the regional centre is unique and that is the only existing intergovernmental conservation network in Africa. She echoed that utilisation of different crops lead to eating healthy foods which culminate to healthy nations.

The Guest of Honour Dr Jafta, in his opening speech, welcomed all the Board Members back in South Africa recalling that the meeting was held at the same venue in 2018, and that he was confident that the reason for coming back to South Africa was because South Africa had good logistical capability for hosting meetings and has warn reception to fellow brothers and sisters.

He informed the meeting that the country is working on a five-year strategic plan (2020 – 2024) on inclusive growth and transformation, where agriculture is expected to deliver more in support of economic growth. He indicated that SPGRC forms the basis of sustainable agriculture but it is not fully recognised. Dr Jafta said that productivity can only be realized if there is variation in genetic resources for use in crop improvement and climate change. He gave an example of the negative impacts of climate change occurring in the region by sharing an experience from the Western Cape in South Africa where there were days of extreme high temperatures that resulted to poor seed formation on wheat.

He further commended SPGRC for coordinating germplasm collections in the Member States. Dr Jafta informed the members that the region has conserved a huge gene-pool though some samples are still in small quantities and not duplicated at the base collection in Zambia. He urged the national programmes to ensure that samples are multiplied and duplicated so that they are conserved over a longer period and highlighted that SPGRC is only strong because of the support it gets from the national programmes which are also faced with financial limitations and urged also urged countries to look for strategic partners in addressing the domestic financial problems. Dr Jafta also reminded board members that it is not all crops that are orthodox and conserved as seed and encouraged them to conserve vegetatively propagated crops including fruit trees that are native to the region in field genebanks or on-farm.

Dr Jafta alluded to the fact that characterisation is lagging behind in the region and that conserved material can only be promoted for use if their beneficial traits are known. He then asked the Board to critically look at items in the agenda that required guidance and to provide appropriate recommendations. Dr Jafta urged members to implement the decisions made by the Board at national level. He thanked SPGRC for organizing the meeting and to have him as part of the first session and then wished for fruitful deliberations under the guidance of the competent Board Chair after which he declared the meeting officially opened.

The Board Chairperson thanked the Guest of Honour and summarised the critical points picked from the speech such as the commendable contribution made by SPGRC in PGR conservation that contribute to sustainable agriculture and in the mitigation of the negative effects of climate change. She appreciated his acknowledgement of the coordination role played by the regional centre in the conservation and use of PGR and reiterated Dr Jafta's request that the Board assist in highlighting the importance of plant genetic resources to agriculture during their interactions with other higher ranked senior government officials to improve the recognition of the importance of plant genetic resources in food and nutrition.

The Head presented the general SPGRC Report, the NPGRCs Review and Planning Meeting Highlights, the draft SPGRC Operational Guidelines of 2019 and the Draft Agreement Terminating the MOU establishing SPGRC for noting. The Board observed that the status of characterisation by Member states was low and urged the network to put more effort in data capturing of unique traits for crop improvement programmes. The Board endorsed the SPGRC Operational Plan and Budget for 2020/21 and recommended it for consideration and approval by the SADC Council of Ministers.

1.2 Regional Crop Working Groups

There were no Regional Crop Working Groups (RCWGs) meetings held during the reporting period due to financial challenges. This was also noted and highlighted by the internal auditors during the year under review who urged that the Crop Working Groups be revived.

Regional Crop Working Groups (RCWGs) comprising of regional experts in respective groupings of crops were designed to periodically meet. The declarations from these meetings have been used to guide collection and conservation procedures of plant genetic resources of various species. RCWGs advised on work priorities, opportunities and challenges and identified ways to improve the crop grouping functions. They also assisted at country level in the characterisation of crops.

1.3 Risk and Audit

Internal and external audit of the SPGRC operations and financial statements was carried out at the end of the financial year in March 2020. The auditors commended the SPGRC for fully implementing the planned annual programmes and using financial resources according to the SADC rules resulting in no queries raised in this area. There were, however, areas needing improvement in ICT governance at SPGRC. It was also noticed that Member States were not using the Web SDIS in managing their plant genetic resources conservation data and encouraged that this be addressed. The low rate of deposit of accessions at SPGRC by Member States was also noted and it was urged that the situation improve going forward. Auditors also urged SPGRC to install an electronic monitoring system for the genebank freezers to make it easy to monitor their functioning condition all the times. It was also encouraged that the inactive crop working groups be reactivated to provide guidance to the region's PGR conservation programmes so as to ensure quality of conservation and utilization of Plant Genetic Resources.

1.4 Visitors

During the reporting period, SPGRC received many visitors including school pupils, university students, scientists, farmers and prominent individuals. See list in Appendix III.

1.5 Establishment of National Genebanks

SPGRC was urged by the external auditors to speed up the process of establishing NPGRCs in the four remaining Member States, namely the Comoros, DRC, Madagascar, and Seychelles. SPGRC conducted the remaining two missions to Seychelles and Comoros for purposes of working with the local authorities overseeing conservation of plant genetic resources in the respective Member States to establish their NPGRCs. SPGRC would like to report that the task has been completed and the NPGRCs have identified institutions for housing the national genebanks in all the outstanding countries although work to mobilise resources to buy equipment is ongoing. Table 1.1 shows the details of the NPGRCs established.

Table 1.1. Details of the newly established NPGCs in Member States

No.	Member State	Location of NPGRC	Overseeing Authority	Name of Curator(s)
1	D. R. Congo	M'vwazi, Ba Congo Province	INERA	Mr. Lumbe Ramazani
2	Madagascar	FOFIFA Headquarters, Antananarivo	FOFIFA	Hery Lalao Lwyset RANDRIANARIVONY
3	Seychelles	Victoria	SAA	Dr Nelson Charles
4	Comoros	INRAPE Headquarters, Moroni	INRAPE	Ms Charmila Mohamed and Ms Oummu Kulthum Mohamed

1.6 1.4 Resource Mobilization

The SPGRC continued coordinating implementation of the FAO-Technical Cooperation Programme (TCP) project that supported four Member States (Angola, Eswatini, Namibia, Swaziland and Zimbabwe) to develop their national strategies for conservation and sustainable utilization of PGR and also in the multiplication and regeneration of accessions for duplication at the SPGRC to bridge the gap between accessions held in the Member States and those at the regional Centre. The project was worth US$ 340,000 ended in December 2019.

A proposal for another TCP to support Plant genetic resources (PGR) conservation in the island Member States (Comoros, Madagascar and Seychelles), together with DR Congo was developed and submitted to FAO for possible funding.

The SPGRC and three Member States are part of a Crop Wild Relatives (CWR) conservation project funded by the Darwin Initiative through the Alliance of Bioversity International and CIAT. The recently inaugurated project is being implemented in Tanzania, Malawi and Zambia. In addition, SPGRC has developed a proposal to restore germplasm in the countries that were affected by Cyclone *Idai* and Kenneth (Malawi, Mozambique and Zimbabwe) together with a region wide proposal to support the regeneration of accessions for deposit at the SPGRC and the Svalbard Global Seed Vault which was submitted to GIZ for possible funding.

1.7 Status of MoU Establishing SPGRC

The SPGRC had earlier on, presented the draft amendment to the MoU establishing the SPGRC before the SADC Ministers of Agriculture, Food Security, Fisheries and Aquaculture in June 2018 who approved the draft and recommended it to the Ministers of Justice/Attorney Generals for further scrutiny before approval by Council in August 2019.

However, instead of adopting the draft amendment to the MoU establishing the SPGRC in March 2019, the Ministers of Justice recommended that an Agreement Terminating the Memorandum of Understanding Establishing the SADC Plant Genetic Resource Centre be developed for their clearance in July 2019 since that was the appropriate document given that SPGRC was already a unit under the SADC Secretariat.

The recommendation was presented to the Joint Ministers of Agriculture, Food Security, Fisheries and Aquaculture in Windhoek in June 2019 who urged the Secretariat to address the recommendations of the Ministers of Justice/Attorney Generals and present the document to them in July as recommended. In July 2019, the Ministers of Justice/Attorney Generals cleared the Agreement Terminating the Memorandum of Understanding Establishing the SADC Plant Genetic Resource Centre and recommended it to Council for approval.

The August 2019 SADC Council of Ministers approved the Agreement Terminating the Memorandum of Understanding Establishing the SADC Plant Genetic Resource Centre; and referred the Agreement Terminating the Memorandum of Understanding Establishing the SADC Plant Genetic Resource Centre for signature to the Ministers responsible for Agriculture and Food Security. The Ministers responsible for Agriculture and Food Security are yet to sign this Agreement Terminating the Memorandum of Understanding Establishing the SADC Plant Genetic Resource Centre.

2. PERSONNEL, EQUIPMENT AND SUPPLIES

2.1 SPGRC Personnel

During the reporting period, there was a change in the senior staffing situation at SPGRC. The Senior Programme Officer – *Ex-situ* Conservation, Mr Lerotholi Qhobela left SPGRC after expiry of his contract at the end of August 2019. Ms Sthembiso Mbhele, a South Africa national, took over as Senior Programme Officer – *Ex-situ* Conservation.

Contracts for the Senior Programme Officers for in-situ Conservation and Documentation and Information, respectively, Ms Thandie Lupupa and Mr. Barnabas Kapange, which were extended up to end of February 2020 also came to an end. The three former SPGRC officers worked for SADC for fourteen years and the SPGRC network thank them for their enormous contribution to the growth of the SPGRC network. Recruitment of officers to replace them is on-going with candidates who were already shortlisted for interviewing in March 2020 for both positions could not be interviewed due to Covid-19 linked lockdowns. The interviews were rescheduled for June 2020.

2.2 Equipment and Supplies

The SPGRC purchased a Lamina air flow cabinet and an autoclave in preparation for establishing a tissue culture laboratory to help conserve vegetatively propagated plant genetic resources. Shelving of the tissue culture room is on course with bids having been evaluated. An advert has been raised seeking quotations for the installation of an electronic freezer monitoring system in the genebank.

2.3 SPGRC Buildings (Offices and Staff Houses)

During the current financial year, SPGRC housing complex perimeter wall was repainted and security floodlights installed to improve on security. The office and housing complex lawn irrigation systems were repaired and new fittings installed to improve performance. The front part of the SPGRC premises fence has been overhauled to give better security and image.

Figure 2.1: The new look of SPGRC main entrance

Figure 2.2: Part of the recently installed front fence of the SPGRC

While the roof of the field workroom wing of the SPGRC office block was redone, three offices were partitioned to create more working space. In addition, the leaking roof of the main office block was mended. The SPGRC Boardroom was renovated and new furniture and digital equipment installed. New furniture was also procured and installed in the offices and the library.

The main and rear entrances to the SPGRC farm were reinforced by erecting new guardrooms, installation of electronic gates and new signage; including the erection of outside bins and a field toilet to ensure hygienic standards outside the work environment.

3. MEETINGS, TRAINING AND EDUCATION

3.1 Training of SPGRC Staff

In preparing SPGRC staff to fully use the institution's electronic applications, SADC Integrated Management System (SIMS) and Sun System and SunFlow System, a series of training sessions were conducted by the SADC Secretariat. These included systems for Procurement, Travel Management, Planning and Budgeting, as well as Auditing and Risk management implementation tracking and reporting in BarnOwl**.** Staff members in the Finance unit also attended a workshop on Advanced Excel Use in Accounting held in Lusaka while staff in Administration attended an Electronic Records Management System (ERMS) training at the SADC Secretariat.

3.2 Training and Education for NPGRC Staff

Training workshops and meetings for building capacity in conservation and sustainable utilization of PGRFA that covered among other areas, climate-smart agriculture, quality management systems, standards, accreditation and validation, Community Seed Bank management, statistical packages, digital object identifiers, intellectual property rights, PGR policies, integrated seed sector development, Access and Benefit Sharing, Database Management *etc*., were attended by network scientists and technicians.

3.3 Some Important Meetings Attended by SPGRC Staff

Table 3.1: Meetings attended by SPGRC Staff

Apr 2019	– The SPO – ex-situ attended a high-level meeting on dissemination of the final report of PARM (Platform for Agricultural Risk Management) progress on agricultural risk management in Zambia – TO Doc and Information represented at a SADC Risk Management training
May 2019	– The Head attended and participated in the Southern African Network for Biosciences (SANBio) in Pretoria, South Africa – The Head attended a SADC Audit Committee meeting in Gaborone, Botswana
Jun 2019	– The Head and SPO – Doc. & Information undertook an exploration mission in Seychelles with view to establish a functioning NPGRC
Jul 2019	– The SPO – Doc. & Information represented SPGRC at the NEPAD/SANBio Business Plan consultative and validation workshop in Johannesburg, South Africa – The Head attended the SADC Audit Committee meeting in Gaborone, Botswana

Aug 2019	– The Head and SPO – In-situ attended an expert meeting on production and quality controls in farmer seed systems in Africa held in Zanzibar, Tanzania – The Head attended the SADC Ministers of Justice meeting in Swakopmund, Namibia – The Head attended the launch of AU Sub-Regional Centre for Sustainable Development Goals for Africa in Lusaka, Zambia – The Head, all SPOs, AAO and SFC attended a joint SPGRC/NPGRCs Review and Planning and Darwin SADC–CWR Inception meeting in Johannesburg, South Africa
Sep	– SPO – In Situ attended a workshop in Harare on Farmer Seed Production in Southern Africa
Oct	– Head and all SPOs attended the SPGRC Board Meeting in Johannesburg – Head and SPOs attended the FANR Planning retreat in Palapye – Head and Assistant Finance Officer attended the SADC Planning meeting in Gaborone – Finance Unit attended retreat in Francistown Botswana

4. TECHNICAL ACTIVITIES

4.1 *EX-SITU* CONSERVATION

The SPGRC has done commendable work by collecting and conserving plant genetic resources in the SADC region since its inception in 1989. Below are summaries of the amount of germplasm held in the region through the public sector conservation programmes which are being coordinated by the SPGRC. Here is an indication of the status of PGR conservation in the SADC region as of 2020.

4.1.1 Number of accessions held in Member States NPGRCs

Table 4.1 below shows the number of accessions of different species held in the NPGRCs of SADC Member States. The total number of the accessions collected and stored has risen to 62 116 inclusive of vegetatively propagated material exclusive of Madagascar, Comoros, and Seychelles.

Table 4.1: An indication of the number of accessions held in Member States NPGRCs

Member State	Total No. of Accessions in the NPGRC	Vegetative Propagated accessions	Total Accessions Conserved using Biotechnology techniques like tissue culture
Angola	4,226	0	0
Botswana	4,946	0	0
Comoros	-	-	-
DRC	926	437	0
Eswatini	723	11	0
Lesotho	3,973	368	0
Madagascar	-	-	-
Malawi	5,709	974	0
Mauritius	477	174	-
Mozambique	3,439	0	0
Namibia	4,503	0	0
Seychelles	0	0	0
South Africa	6,212	49	34
Tanzania	6,125	0	72
Zambia	6,653	1 00	0
Zimbabwe	6,333	1, 908	3,990
Total	54,245	3 847	4,024
Grand Total			62,116

4.1.2 Accession deposit at SPGRC by Member States

Figure 4.2 illustrates the number of accessions deposited at SPGRC by Member States as at 31 March 2020. The indication is that most Member States have not duplicated a large proportion of their accessions at SPGRC as is expected. Only 34.1% of the total accessions held in Member States have been duplicated at SPGRC. Member States are encouraged to make significant deposits of accessions at SPGRC as is expected to reduce the gap between accessions in Member States and those at SPGRC.

4.1.3 Accession Deposits at SPGRC by NPGRCs

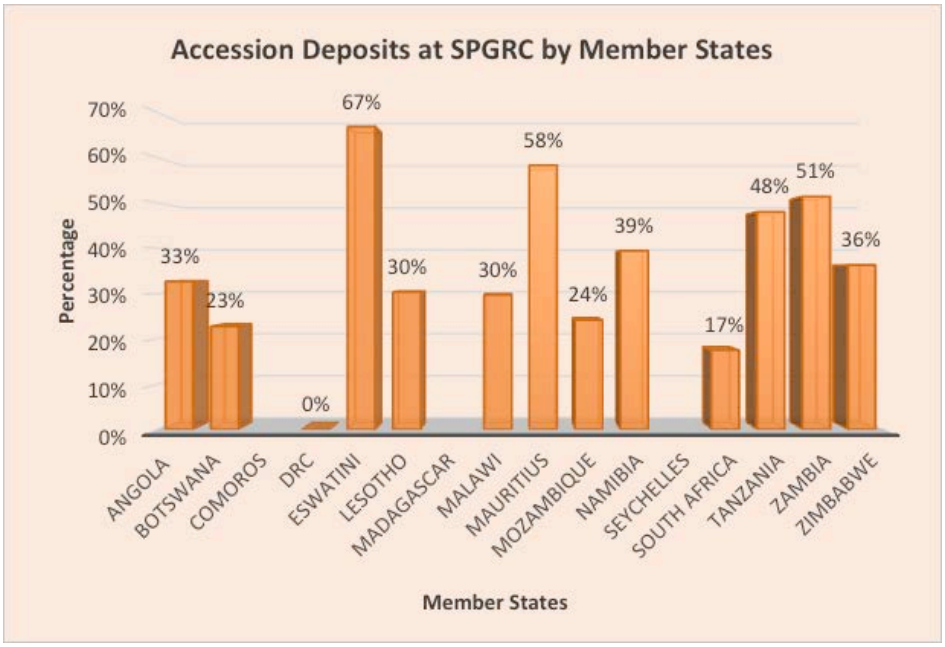

Figure 4.1: Status of Accessions deposits at SPGRC by Member States

4.1.4 Accession Deposit at Svalbard Global Seed Vault

Figure 4.3 shows the total number of accessions deposited at the Svalbard Global Seed Vault by the SPGRC on behalf of Member States. During the year, SPGRC deposited 3,691 accessions out of which 1, 010 were phyicically deposited by the SPGRC Head and the Senior Programme Officer ex situ Conservation; at the Svalbard Vault, during the February 2020 Conference in Norway that was attended by 35 genebank representatives from the globe. The proportion of SPGRC held accessions deposited at the Svalbard Global Seed Vault has moved from 7.9 % in 2012 to 33% in 2019 and 42% in March 2020. There has been a notable improvement on the deposit of accessions at the Svalbard Global Seed Vault by SPGRC over the past three (3) years.

Figure 4.2: total number of NPGRC accession deposit at the Svalbard Global Seed Vault as at 31 March 2020

4.1.5 Accession multiplication and characterization

Most of the accessions held by Member States is still not characterised as shown on Table 4.4. There is need to direct the regional effort towards characterisation of the accessions held for more value to be extracted from them. Currently, only 8% of the accessions are characterised.

Table 4.4: The status of accession characterisation by Member States as of 31 March 2020

Member State	Total number of accessions in the Member State	Total Number of accessions characterised	Proportion (%) characterised
Angola	4,226	364	9
Botswana	4,946	661	13
Comoros	-	-	0
DRC	926	-	0
Eswatini	723	168	23
Lesotho	3,973	-	0
Madagascar	-	-	0
Malawi	5,709	761	13
Mauritius	477	-	0
Mozambique	3,439	511	15
Namibia	4,503	1076	24
Seychelles	0	-	0
South Africa	6,212	16	0
Tanzania	6,125	21	0
Zambia	6,653	1923	29
Zimbabwe	6,333	2209	35
Total	**54 245**	**4132**	**8**

4.1.6 Viability testing of accessions in the SPGRC Gene Bank

During the reporting period, the *Ex situ* section set an annual target of ensuring that at least 6 000 dried accessions at SPGRC are tested for viability. They beat the target by testing a total of 13, 743 accessions from the Base Collection for viability.

4.1.7 Drying and Processing of Seeds

The back log of 1 845 accessions awaiting drying and depositing in the gene bank, which had accumulated over the past 5 years owing to equipment breakdown, was finally cleared.

4.1.8 Addition of New Germplasm Material to SPGRC Genebank

During the 2018/2019 planting season, 473 out of the planned 600 accessions were regenerated at SPGRC which have since been processed and stored at the Base Collection. The breakdown of the accessions is shown on Figure 4.3.

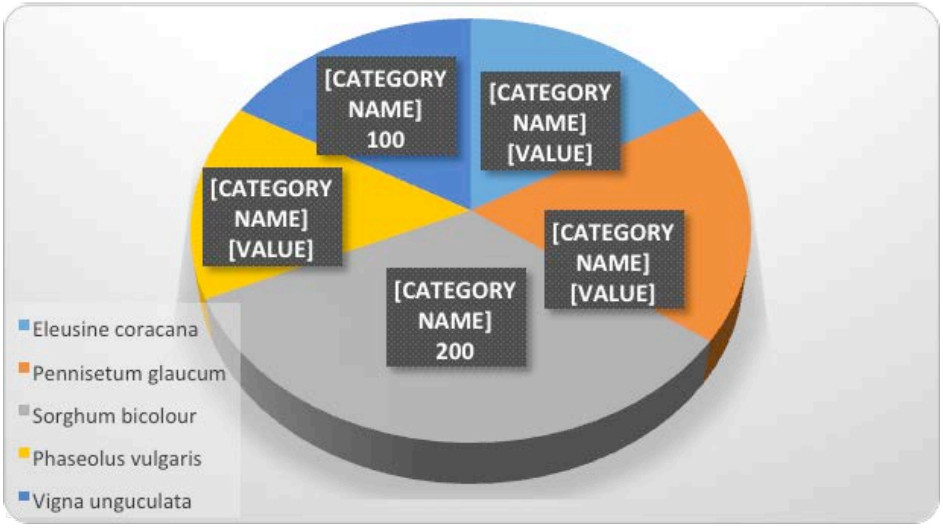

Figure 4.3: Accessions regenerated at SPGRC during the 2019/20 season by species

Materials have been prepared for multiplication and regeneration and were planted during this planting season (2019/2020) at SPGRC, a total number of 600 accessions were planted consisting of the following type of crops;

- ✓ *Sorghum bicolor*
- ✓ *Arachis hypogaea*
- ✓ *Vigna subterranean*
- ✓ *Phaseolus vulgaris*

4.1.9 Facilities and Equipment

The SADC regional genebank is currently housing 76 freezers. Other genebanking facilities include two walk-in driers, two germination chambers, moisture meter, aluminium foil bag, sealer, bottle sealer and water purifier. The replacement of old freezers is ongoing. The genebank is generally in a good working condition and following the appropriate scientific standards.

4.1.10 Arboretum

The two arboretums at SPGRC have 25 different species of wild fruits, medicinal plants and ornamentals that were collected from various parts of Zambia. These wild species attract a lot of students from schools and colleges for educational purposes.

4.2 GERMPLASM COLLECTION AND *IN-SITU* CONSERVATION

4.2.1 On-farm Conservation

Establishment of Community Seed Banks was facilitated in Eswatini (1 Manzini District), Zimbabwe (2 Bubu and Nkayi Districts). Insights were gathered from farmers during workshops on key activities that would guide the smooth and standardized operations of farmer managed Community Seed Banks. Topics raised included germplasm collection, seed drying, packaging for conservation in the seed bank as small quantities and individual seasonal bulk storage, seed registration, labelling of storage containers, viability testing, crop restoration, seed sharing for crop diversification, sustainability of seed banks through committees and formal group associations. The gathered information will be useful in the formulation of the standard Community Seed Bank Management Module for the SADC region.

Workshops aimed at the identification of crop diversity hot-spots and mobilization of farmers for the establishment of on-farm conservation activities occurred in Angola (Hulia District) and in Namibia (Kavango region). Crop diversity fairs, seed and information sharing, management of crop diversity at farmer level continued through farmers' groups in Eswatini, Malawi, Madagascar, Tanzania, South Africa, Seychelles (Every Home a Garden concept), Zambia and Zimbabwe. Farmers were encouraged to manage traditional crops on-farm to supplement ex situ conservation in seed genebanks and for food and nutrition security. Crop diversity of adaptive crops help in coping with the challenges of climate change, improve livelihoods and to build resilience. Table 4.5 reflects the number of Community Seed Banks and on-farm conservation groups in the region.

Table 4.5: Number of on-farm and Community Seed Bank Programmes in SADC Member States as at 31 March 2020

Country	Number of Community Seed Banks	Number of on-farm conservation groups
Botswana	-	3
Eswatini	1	3
Madagascar	9	9
Malawi	7	81
Tanzania	1	6
Seychelles	-	1
South Africa	3	4
Zambia	2	8
Zimbabwe	6	16
Totals	**29**	**131**

4.2.2 Germplasm collected and conserved for use in the region

A total 914 samples of mixed crops and Wild species (78) were collected for conservation in 10 Member States. SPGRC facilitated a Cassava rescue collection mission in the Luapula and Northern Provinces of Zambia. 50 samples (31 local varieties and 8 improved varieties) were collected and planted at the NPGRC Field Genebank.

Table 4.6: A summary of germplasm collections done in Member States during the 2019/2020 period.

Country	Number of Samples Collected
Angola	**114**
Botswana	**94**
DRC	**3**
Eswatini	**11**
Lesotho	**32**
Malawi	**16**
Namibia	**183**
South Africa	**59**
Tanzania	**145**
Zambia	**257**
Total	**914**

4.2.3 Workshops on climate smart agricultural practices for sustainable productivity and on-farm management of local crops

A total 162 farmers from 4 Community Seed Banks in Mathebeleland North and South in Zimbabwe, 46 farmers at kaShewula, Lubombo District in Eswatini and 76 farmers in the Maun District in Botswana; were trained on on-farm crop management linked to agro-ecological farming systems to build resilience for coping with climate change.

Seed Fairs were conducted in Eswatini, Malawi, Tanzania, Zambia and Zimbabwe. In Lesotho; two NGOs were identified to work in collaboration with the NPGRC on the establishment of on-farm conservation activities at the Mokhotlong and Qacha's Nek Districts. In Mozambique, one NGO facilitated an exchange visit to learn from Zimbabwe CTDO. SPGRC made arrangements for another exchange tour by the Mozambique team to visit the Zambia NPGRC and to the regional genebank.

4.2.4 Progress on FAO-TCP Project

The TCP project supported four Member States namely: Angola, Eswatini, Namibia and Zimbabwe, in the development of national strategies for the conservation and sustainable utilization PGRFA, conservation of crop diversity at farmer level linked to agro ecological farming systems and multiplication of seed samples for duplication at SPGRC for Base Collection.

All four countries developed conservation strategies. The success of the development of the National Strategies for the conservation and use of PGRFA was based on the

principle of ownership of the process, engagement of relevant stakeholders and the efficient timely disbursement of financial support by the FAO Sub Regional Office. This was attested by the National Project Coordinators during the End of Project Meeting that was held at the Victoria Falls in Zimbabwe, in November 2019.

All other activities regarding linking conservation and sustainable use of PGRFA were carried out such as developing linkages with the seed delivery systems and extension services in order to provide farmers with the crop varieties they require, facilitating the intensification of agro-ecological farming systems to increase productivity, nutritional security and to cope with the challenges of climate change, characterization and multiplication of seed samples to meet adequate quantities to minimize the gap between active collections conserved in the countries and the base collections were successfully implemented by the four countries. However, the effect of drought experienced in southern Africa affected the effort to bridge the gap between accessions in active collections at NPGRCs and in base collection at SPGRC as Member States failed to make significant accession regenerations (Table 4.7). Angola National Coordinator further indicated that more funds are required to finish projects like the establishment of more Community Seed Banks and training of farmer groups. Hence funding is still critical in realizing the success of the implementation of the national strategies.

Table 4.7: FAO funded PGR regeneration by the four Member States

Country	Planned # of Acc to be Multiplied	Planted	Harvested	To be sent to SPGRC	Sent to SPGRC
Angola	253	134	133	130	-
Eswatini	147	114	109	85	-
Namibia	75	75	65	65	11
Zimbabwe	834	834	310	200	69
Total	**1309**	**1157**	**617**	**480**	**80**

4.2.5 Other Collaborations

Development of checklists for Crop Wild Relatives was carried out in Malawi and Tanzania. Prioritization of the CWR finalized in Malawi and still in progress in Tanzania. Countries are working in collaboration with relevant stakeholders drawn from different ministries and organizations. Zambia, Malawi and Tanzania have constituted their national committees. Countries received one-to-one training sessions that are led by Bioversity International. Countries that are actively participating include Botswana, Comoros, DRC, Eswatini, Lesotho, Seychelles, South Africa, and Zimbabwe. Comoros, Eswatini, and Seychelles are at an advanced stage with the Crop Wild Relatives checklist development.

4.2.6 SADC Harmonized Seed Regulatory System: Proposed Registration Procedures for Farmer Varieties

In addition to its manadate of coordination the conservation and utilisation of plant genetic resources for ffod and agriculture, SPGRC has also been tasked with coordination of the SADC Harmonised Seed Regulatory System through the SADC Seed Centre. This is because the SADC Seed Centre is currently not staffed. The coordination will be done through the SPO In Situ Conservation to ensure the smooth floor of activities for the Seed Centre until such a time when the Centre has its own staff

4.2.7 SPGRC Farm Activities

Prepared and planted 5ha of field crops from which 17 tonnes of maize were harvested and facilitated servicing, greasing of farm implements, processing of harvested produce, procurement of farm inputs, fixing of the irrigation system, maintenance of the SPGRC surroundings, planting and crop management of the farm.

Due to the ageing of farm implements, the following were purchased to replace the old equipment: disc harrow, mouldboard plough, boom sprayer and a tractor mounted grader. In addition, a modern weather station facility was also installed. A water reservoir was constructed in the anticipation of extending the supplementary irrigation facilities in the farm.

4.3 DOCUMENTATION AND INFORMATION

4.3.1 Hardware and Software

The Documentation and Information section continued to maintain the Centre's hardware and software as evident by the updated anti-viruses centrally managed on the server.

The SADC secretariat has adopted a strategy of centrally managing all core systems (SUN accounting system, Sunflow procurement system, SIMS budget and Planning) thus SPGRC through its fast and improved bandwidth is now able to access all the systems directly through the internet.

SPGRC has, however, continued with maintenance of the Domain Controller, mail and file servers. The LAN and associated IT equipment and facilities were kept running smoothly, enhancing sharing of information and data resources across local and outside clients. Management and maintenance of the SUN accounting system is now centralized and done from the SADC Secretariat.

With SADC Secretariat support, SPGRC upgraded ICT infrastructure including switches, routers and cabling; and increased its Internet bandwidth to 10 MBps.

In order to enhance data and information security, SPGRC renewed and installed FortiNet and Cisco smart-net software and also renewed its offsite backup services with a local company.

A new domain server and LaserJet printer were acquired for printing labels and other reports by Technical Officer – Ex-situ.

4.3.2 Database Development

After noticing a few discrepancies and mix-up of crop descriptors in the database, SPGRC undertook to review the database system crop descriptors which are important for accurate capturing of data and using characterization data from the system. The system was updated and re-loaded with 53 verified crop descriptors adopted from IPGRI (now Bioversity International).

These updates (including revised crop descriptors, navigation and security features) have already been deployed in Namibia, South Africa and Zambia.

The documentation and information section is also still in discussions with the Global Crop Diversity Trust for support in incorporating Digital Object Identifiers (DOI) in SDIS

4.3.3 Network News and Publicity

Two SPGRC newsletter issues for July 2019 and December 2019 were published and distributed to stakeholders. Also published and distributed 1,500 pamphlets on PGR management.

Figure 4.4: The former Board Chair Mr. Mwila with the PS Ministry of Agric. At the SPGRC stand during the agric show in Lusaka, Zambia

SPGRC staff led by the documentation section attended and exhibited at Zambia National Agricultural & Commercial Show in Lusaka, July/August 2019

During the women's week In March 2019, in Lusaka, a public lecture was held on conservation of plant genetic resources under theme "*Acknowledging women*

achievements in conservation of plant genetic resources for food and agriculture and ensuring of household food and nutrition security". Various stakeholders who included academicians, NGOs, students, policy makers, media, were invited.

The SPGRC 2018/2019 annual report was printed and distributed in September 2018. SPGRC website (www.spgrc.org.zm) a major conduit for updating information regarding activities and achievements. A total of 500 SPGRC 2020 calendars and 50 Genebank Standard Operating were published and distributed to member states and various stakeholders.

4.3.4 SPGRC Library

Subscriptions for The Essential Electronic Agricultural library (TEEAL) was renewed in December 2019 with view to provide network scientists access to over 200 globally renowned agricultural journals.

SPGRC also established links with the SADC Secretariat Central Library in Gaborone that has promised in future to support the library. The SPGRC purchased new books, and renewed subscriptions to journals and serial titles as well as other publications that are related to biodiversity management.

4.3.5 SPGRC Documentation and Information Training To NPGRCs

Recognizing the major part documentation work plays in conservation of Plant Genetic Resources, SADC through its regional centre, the SPGRC, continues assisting and supporting stakeholders to improve their capacity to store, manage and share information on PGR in the region and beyond.

Figure 4.5: Documentation officers follow proceedings during the Web SDIS training workshop in South Africa.

It is for the above reason that a regional capacity building training workshop on documentation and database management (web-SDIS) was held from 2nd – 7th of March in Johannesburg, South Africa.

The training was all-round and practical-oriented with participants having hands on experience on data capture, querying and management of their respective country databases.

Overall, the training workshop was a huge success as participants were treated to very practical sessions, where real data was inputted into the web-based SDIS system in real time.

5. INTERIM FINANCIAL REPORT 2019/2020

Below are the interim SPGRC financial statements for the year 2019/2020

Interim Statement of financial performance			
For the Period Ended 31MARCH 2020			
		2019/20	**2018/19**
		USD	**USD**
Revenue			
Revenue from non-exchange transactions			
Member States contributions		1,370,410	1,520,041
Exceptional revenue from Member States		-	-
Development partners contributions		-	-
		1,370,410	**1,520,041**
Revenue from exchange transactions			
Institutional property rentals		21,019	23,345
Investment revenue		8	2,248
		21,027	**25,592**
Total revenue		**1,391,437**	**1,545,633**
Expenditure			
Staff costs		917,545	910,746
Transport, subsistence and conferences		178,080	175,144
Lease expenditure		-	-
Contingent rental on finance leases		-	-
General expenses and supplies		197,712	246,060
Communications		16,088	56,170
Audit and professional fees		-	-
Depreciation current year charge		128,927	133,861
Depreciation effect of changes in residual values		**-**	**-**
Finance cost		**-**	**-**
Programme Expenditure		**1,438,353**	**1,521,981**
Other gains /(losses)			
(Loss)/Gain on sale of assets		(161)	(172)
(Loss)/Gain on foreign exchange transactions		32,275	(6,248)
		32,114	**(6,419)**
Surplus/(deficit) for the year		**(79,030)**	**30,072**

Interim statement of financial position			
For the Period Ended 31 MARCH 2020			
		2019/20	2018/19
		USD	USD
Current assets			
Cash and cash equivalents		572,511	1,080,454
Receivables exchange transactions		28,078	52,693
Receivables non-exchange transactions		4,597	-
Prepayments		18,834	-
		624,019	**1,133,147**
Non-current assets			
Property, plant and equipment		1,903,313	1,875,783
		1,903,313	**1,875,783**
Total assets		**2,527,332**	**3,008,929**
Liabilities			
Current liabilities			
Trade and other payables from exchange transactions		96,766	91,467
Trade and other payables from non exchange transactions		-	705,522
Finance lease liability		-	-
Post-employment benefit		324,679	267,811
Deferred revenue from development partners		422	2,421
Member States Special Funds		-	-
		421,867	**1,067,221**
Non-current liabilities			
Post-employment benefit		-	-
Finance lease liability		-	-
		-	**-**
Total liabilities		**421,867**	**1,067,221**
Net assets			
Reserves		69,212	65,925
Accumulated surplus		2,115,283	1,845,712
Surplus for the year		-79,030	30,072
		2,105,465	**1,941,709**
Total net assets and liabilities		**2,527,332**	**3,008,930**

Interim statement of Cash Flow			
For the Period Ended 31 March 2020			
		2019/20	**2018/19**
		USD	**USD**
Cash flows from operating activities			
Surplus/(deficit) for the year		**(79,030)**	**30,072**
Adjustments:			
Depreciation		128,927	133,861
Gain on sale of assets		(161)	172
Finance income			-
Finance costs		-	-
Revenue from donations of assets		-	-
SADC house revenue realised		-	-
Member States special funds		-	-
SADC house contributions		-	-
Gratuity funds		56,867	(16,424)
Development partners fundS		-	2,421
(Increase)/decrease in payables		5,299	5,616
(Decrease)/increase in receivables		(704,337)	30,033
Net cash flows from operating activities		**(592,434)**	**185,751**
Cash flows from investing activities		-	-
Purchase of property, plant, equipment		(156,296)	(15,765)
Proceeds from sale of property, plant and equipment		-	422
Interest received		(8)	2,248
Interest paid		-	-
Net cash flows used in investing activities		**(156,304)**	**(13,095)**
Cash flows from financing activities		-	-
Finance charges paid on SADC House		-	-
Funds received for Asset Replacement		239,500	
Cash proceeds from Issuing Loans		3,287	
SADC house lease repayments		-	-
Net cash flows used in financing activities		**242,787**	**-**
Net increase/(decrease) in cash and cash equivalents		**507,951**	**(180,674)**
Effect of exchange rate adjustments		32,275	(6,419)
Opening cash and cash equivalents		1,080,462	899,788
Closing cash and cash equivalents		572,511	1,080,462

Interim statement of comparison of budget and actual amounts (Revenue)								
For the Year Ended 31 March 2020								
Description	**Notes**	**Original Budget**	**Final Adjusted Budget**	**Actual Comparable Amount**	**Variance**	**Budget Utilisation**		
		2019/20	**2019/20**	**2019/20**	**2019/20**	**2019/20**		
Col 1	**Col 2**	**Col 3**	**Col 4**	**Col 5**	**Col 6**	**Col 7**		
Revenue from non-exchange transactions								
Member states contributions		1,370,410	1,370,410	1,370,410	-			
Member states special contributions		-	-	-	-			
Transfers and asset donations		-	-	-	-			
Development partners contributions		-	-	-	-			
Total revenue from non-exchange transactions		**1,370,410**	**1,370,410**	**1,370,410**	**-**	**100%**		
Revenue from exchange transactions								
Institutional property rentals		-	-	21,019	(21,019)			
Investment revenue		-	-	8	(8)			
Total revenue from exchange transactions		**-**	**-**	**21,027**	**(21,027)**			
Total revenue		**1,370,410**	**1,370,410**	**1,391,437**	**(21,027)**	**102%**		

Interim statement of comparison of budget and actual amounts (Expenditure)					
For the Year Ended 31 March 2020					
Description	**Original Budget**	**Final Adjusted Budget**	**Actual Comparable Amount**	**Vari-ance**	**Utilisation rate**
	2019/20	**2019/20**	**2019/20**	**2019/20**	**2019/20**
Col 1	**Col 2**	**Col 3**	**Col 4**	**Col 5**	**Col 6**
Programme activities					
SADC Plant Genetics and Resources Center (SPGRC)	435,310	435,310	433,929	1,381	100%
Sub-total: Programmes Funded by Member States	435,310	435,310	433,929	1,381	100%
Support activities	-	-	-	-	
Sub-Total	**435,310**	**435,310**	**433,929**	**1,381**	**100%**
Staff costs activities					
Programme staff	935,100	935,100	930,615	4,485	100%
Support staff	-	-	-	-	
Sub-total: Staff costs	**935,100**	**935,100**	**930,615**	**4,485**	**100%**
Total Costs	**1,370,410**	**1,370,410**	**1,364,544**	**5,866**	100%

6. APPENDICES

6.1 Appendix I: Members of the Board of SPGRC, 2019/2020

1.	Dr Lebesa Lefulesele	-	Lesotho - Chairperson
2.	Mr Godfrey P Mwila	-	Zambia-Vice Chairperson
3.	Dr Pedro Mocambique	-	Angola
4.	Ms Charmila Mohamed Anoir	-	Comoros
5.	Dr Kankolongo Mbuya Amand	-	DRC
6.	Dr Sithembile I Kunene	-	eSwatini
7.	Dr Rakotoarisoa R Jacqueline	-	Madagascar
8.	Dr Wilkson Makumba	-	Malawi
9.	Ms Carla do Vale	-	Mozambique
10.	Mr I P Mate	-	Namibia
11.	Dr Will Dogley	-	Seychelles
12.	Dr Noluthando N Nkoana	-	South Africa
13.	Dr Geoffrey Mkamilo	-	Tanzania
14.	Dr Cames Mguni	-	Zimbabwe

6.2 Appendix II: SPGRC Staff Members, 2019/2020

Name	Position	Appointment Date
Mr Justify Shava	Head, SPGRC	09 July 2017
Mr Barnabas W Kapange	Sen. Prog. Officer – Doc. & Info	09 May 2006
Ms Thandie J Lupupa	Senior Prog. Officer - *In Situ* Conservation	16 May 2006
Ms Sthembiso A. Mbhele	Senior Prog. Officer – *Ex Situ* Conservation	01 July 2019
Mrs Mary B Phiri	Assistant Admin. Officer	01 March 2000
Ms Florence C Chitulangoma	Assistant Finance Officer	08 March 1993
Mrs Peggy S Ng'ono	Technical Officer-Conservation	1 June 2005
Mr Mike Daka	Technical Officer - Doc & Info	21 May 2012
Mr Ferdinand Mushinge	Technical Officer – *In Situ*	01 March 2004
Mrs Phillis M K Litula	Personal Secretary	12 November 2001
Mr Wilbroad M Chashi	Senior Finance Clerk	1 July 2002
Mr Julius Daka	Driver	01 June 2016
Mr Kapelwa E Songa	Typist/Receptionist	01 September 1989
Mr Gibson Zulu	General Worker	01 August 1989
Mr John Mfwembe	General Worker	04 September 1989
Mr Olipen Phiri	General Worker	05 January 2009
Mr Stephen Siakanchele	General Worker	01 December 2016

6.3 Appendix III: List of Some Prominent Visitors to SPGRC (2019/2020)

Name	Contacts	Motivation
Justin Mutweba	Stanbic Bank, Zambia	
Lwembe Mwale	COMESA, Zambia	Participant COMESA climate-smart agriculture workshop
Tryness Nkhoma	Min. Nat. Res., Malawi	- as above -
Timothy J. Ogwang	Min. Agric, Kenya	- as above -
Doshanie Kadokera	Min. Agric., Malawi	- as above -
Mohamed A. Ismail	Min. Agric., Somalia	- as above -
Dusengimana Theofile	Min. Environ., Rwanda	- as above -
Mustafa Abu	Min. Agric., Ethiopia	- as above -
Osman H. Abdi	Min. Planning, Somalia	- as above -
Mupemzi Mutimura	Rwanda Agric., Board	- as above -
Richard Kyuma	Kenya Livestock Insurance Project	- as above -
Peter Masawe	CIDP-Mongu, Zambia	Familiarization tour, collaborative research potential assessment
Frida Masawe	CIDP-Mongu, Zambia	(as above)
Miga Wilfred	PELUM, Zambia	Consultations with SADC-FANR Director
Wesley L. Wakunima	Sust. Innovation Africa	Consultations with SADC-FANR Director
Domingos Z. Gove	FANR-SADC, Botswana	Familiarization tour
Thamsanga Sonile	Seed Trade Project, Zambia	Consultation on SADC Seed Centre establishment
Charles Nkhoma	CTDT, Zambia	Farmers familiarization tour
Dickson L. Chisasa	CTDT, Zambia	Farmers familiarization tour
Ngulube Mike	CTDT, Zambia	Farmers familiarization tour
Joyce Saili	CTDT, Zambia	Farmers familiarization tour
Juliet Nangomba	CTDT, Zambia	Farmers familiarization tour

Kenji S. Mpande	CTDT, Zambia	Farmers familiarization tour
Mulife Likomono	CTDT, Zambia	Farmers familiarization tour
Ronany Chabala	Mettler Toledo, Zambia	Lab equipment supplier
Benson Mwenya	Min. Fisheries & Livestock, Zambia	Consultation on establishment of Animal Genetic Resources Centre
Petronella Halwiindi	Heifer Int'l, Zambia	Consultation on establishment of Animal Genetic Resources Centre
Mable Knight	ZNBC, Lusaka	Media coverage of SPGRC
Dante Bwalya	Diamond TV, Lusaka	Media coverage of SPGRC
Cleophace Mwemba	Diamond TV, Lusaka	Media coverage of SPGRC
Tryness Tembo	Zambia Daily Mail	Media coverage of SPGRC
Samuel Mubita	Millennium Radio, Lusaka	Media coverage of SPGRC
Elina Phiri	Min. Info. & Broadcasting	Media coverage of SPGRC
Mwanza Niza	Millennium Radio, Lusaka	Media coverage of SPGRC
Stephen Chinyama	Power FM Radio, Lusaka	Media coverage of SPGRC
Marvin Mwape	Power FM Radio, Lusaka	Media coverage of SPGRC
Kalaluka Mushaukwa	Komboni Radio, Lusaka	Media coverage of SPGRC
Kasonde Kasonde	Times of Zambia	Media coverage of SPGRC
Michelo Hachizibe	Radio Christian Voice	Media coverage of SPGRC
Melody Kasomwe	Hot FM Radio, Lusaka	Media coverage of SPGRC
Ethel Chanda	Min. Info. & Broadcasting	Media coverage of SPGRC
Mathews Mudenda	Min. Info. & Broadcasting -SADC Desk Officer	Media coverage of SPGRC

Mathews Musukwa	ZANIS, Lusaka	Media coverage of SPGRC
Agripah Chanda	Kwithu FM Radio, Lusaka	Media coverage of SPGRC
Lazarous Siluka	QTY/QFX	Media coverage of SPGRC
Godson Lupiya	ZANIS, Lusaka	Media coverage of SPGRC
Nosiku Mwanze	ZANIS, Lusaka	Media coverage of SPGRC
Pluzo Nyirenda	Coop. College, Lusaka	Student attachment tour
Chiboboka Elizabeth	Coop. College, Lusaka	Student attachment tour
Pandulen N. Elago	FANR-SADC, Botswana	Familiarization tour
Stephen Walsa	FAO Consultant	Study if agric. Progs in Zambia are pro-poor
Chibamba Mwansakilwa	FAO Consultant	Study if agric. Progs in Zambia are pro-poor
Salohe Mkosi	Killarney, Johannesburg 2013	Assessing the progress of the SADC Seed Centre on behalf of USAID
Stephen C. Mwiinga	ZARI, Mt Makulu, PB7, Chilanga	Familiarization tour
Bernadette Malamba	19 Freedom Way, Chingola	Familiarization tour
Inonge Milupi	UNZA, Box 32376 Lusaka	Tour with students
Nokuhela Mhene	237 Jan Smuts Ave., Parktown, Johannesburg	Pelum familiarization tour of SPGRC
Rodgers Gwedeza	SADC Secretariat, Gaborone	Support SPGRC Finance unit
Taunyana B. Tsiano	SADC Secretariat, Gaborone	Support SPGRC Finance unit
Dimpho Majaha	SADC Secretariat, Gaborone	Support SPGRC Finance unit
Thamsanga Sonile	Seed Trade Project, Lusaka	Preparations for the commissioning of the SADC HSRS seed movement
Malilwe Mukonka	Seed Trade Project, Lusaka	Preparations for the commissioning of the SADC HSRS seed movement

Itai Makanda	Seed Trade Project, Lusaka	Preparations for the commissioning of the SADC HSRS seed movement
Godfrey Mwila	ZARI, Mt Makulu, Chilanga	Update on the Zambia NPGRC evaluation by the Crop Trust
Veronica	SADC Secretariat	Evaluation of Procurement processes at SPGRC
Elvis Chingalawa	SADC Secretariat	Consultant on Business Continuity
Tyson Moonga	Police Protective Unit, Lusaka	SPGRC security/safety
Astone Miyemba	Police Protective Unit, Lusaka	SPGRC security/safety
Patrick Nyangu	SPGRC/SADC Police Post	SPGRC security/safety
James Katani	SPGRC/SADC Police Post	SPGRC security/safety
Chrispin Chipapa	Police Protective Unit, Lusaka	SPGRC security/safety
Todd Flowert	USAID Southern Africa, Pretoria	Meeting on possibility of SPGRC staff assisting with Seed Centre Duties
Takele Tassew	USAID Southern Africa, Pretoria	Meeting on possibility of SPGRC staff assisting with Seed Centre Duties
Esaiah Tjelele	SADC Secretariat	Meeting on possibility of SPGRC staff assisting with Seed Centre Duties

NOTES

NOTES