



## **Annual Progress Report 2014**



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## 2014 at a glance

- Altogether 38,052 new safety duplicates from 15 depositors were stored in the SGSV 2014. This increased holdings by about 5% and the total holding by the end of the year was 849,804 samples.
- By the end of the year chamber two is filled to 81% of its current capacity.
- Two new institutions from Austria and Bulgaria signed the Deposit Agreement and made their first deposits in 2014.
- Media and public interest continued and in line with our communication mandate NordGen hosted selected media visits, gave interviews and presented the Seed Vault at science and policy conferences.

## Foreword

NordGen is responsible for the operation and management of the Svalbard Global Seed Vault (SGSV) according to our three-party agreement with the Norwegian Ministry of Agriculture and Food (LMD) and the Global Crop Diversity Trust (the Crop Trust).

The objective of the seed vault is to provide a safety net for the international conservation system of plant genetic resources, and to contribute to the securing of the maximum amount of plant genetic diversity of importance to humanity for the long term. The success of the SGSV has continued this year both measured in terms of participation from the global genebank community and in terms of public interest and awareness about the purpose of SGSV. By the end of 2014, the SGSV held close to 850 thousand safety duplicates representing wide inter- and intra-specific crop diversity deposited by 61 genebanks from around the world.

The SGSV is a flagship project for NordGen and 2014 was the seventh year of operation. We take great pride in the role we play in this project. All NordGen activities are done in cooperation with our partners LMD, the Crop Trust and Statsbygg. It is a pleasure to work in this partnership. I would also like to thank all our local partners in Oslo and Svalbard who are involved in seed logistics and ensure a smooth operation.

Árni Bragason

Director NordGen

## Introduction

This annual progress report for SGSV is prepared by NordGen to give an overview of the operation of the Vault in 2014.

The SGSV was established with the “*objective to provide a safety net for the international conservation system of plant genetic resources, and to contribute to the securing of the maximum amount of plant genetic diversity of importance to humanity for the long term in accordance with the latest scientific knowledge and most appropriate techniques*”<sup>1</sup>. After seven years of operation the SGSV has become the major safety back-up site for PGRFA worldwide and by the end of 2014 the collection at Svalbard stood at 849,804 safety duplicates from 61 institutes.

The operation of the SGSV is a collaborative endeavour at several levels. At the management level NordGen collaborates closely with LMD and the Crop Trust. At the facility operation level NordGen cooperates with Statsbygg in Longyearbyen who is responsible for the maintenance and the daily surveillance and monitoring of the facility at Svalbard. At the seed logistics level we cooperate with the institutions sending safety duplicates as well as with a chain of logistics- and security- partners during shipment and transport to the SGSV. The partnerships at all levels have worked very well also in 2014.

In 2014, 38,052 new safety duplicates were deposited from 15 depositors. Two genebanks deposited for the first time in 2014 and the 13 others were existing depositors sending additional material. The international publicity about the SGSV project continued to increase in 2014.

Operation of the Seed Vault consists of two aspects: (1) Physical maintenance of the facility, overseen by Statsbygg and (2) Seed management and operation, overseen by NordGen. NordGen’s responsibilities for the management of seed deposits are stated in the three party agreement providing for the long term funding, management and operation of the Svalbard Global Seed Vault.

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<sup>1</sup> Norwegian Ministry of Agriculture and Food, Global Crop Diversity Trust, NordGen (2007) Agreement between the Royal Norwegian Ministry of Agriculture and Food, The Global Crop Diversity Trust and the NordGen providing for the funding, management and operation of the Svalbard Global Seed Vault.

## **Facility management**

LMD is the national responsible authority for the SGSV, while SGSV is the property of Statsbygg. The property management and daily monitoring of the SGSV is the responsibility of Statsbygg (the Norwegian directorate for public constructions). The property management duties of Statsbygg are stated in the lease-agreement between LMD and Statsbygg. Statsbygg reports on the daily operation and the outcomes of work on the physical facility to LMD in user-meetings. All electro-technical installations are managed through a central operation system (SD-system) accessible inside the Seed Vault as well as from the Statsbygg office in Longyearbyen.

No major challenges or incidences occurred in 2014. The temperature has not exceeded the set limits for almost four years now. The security systems for accessing the tunnel have been enhanced. A gas extinguishing system has been installed and once the ice had been removed from the floor of the tunnel, it has so far not come back. The remaining technical challenge is the water intrusion during spring melting. The situation is under control with the current drainage system, water pumps, back-up generator and 24-7 monitoring by Statsbygg staff. There has also been a decline in the water intrusion the last two seasons compared to earlier seasons. However, it is now clear that the permafrost will most likely not return to the entrance section of the tunnel and Statsbygg have been asked by the Ministry to find a solution that will ensure that the Seed Vault stays dry. A consultancy company is currently monitoring the water intrusion and developing proposals for the permanent solution.

## **Seed management and operation**

NordGen is responsible for managing and operating all aspects of the safety deposit process. This responsibility spans from liaising with collection holders interested in depositing seed samples to operation of the databases and organization of the storage process at Svalbard. The SGSV is a high profile project with a special status within NordGen's organization (Figure 1).

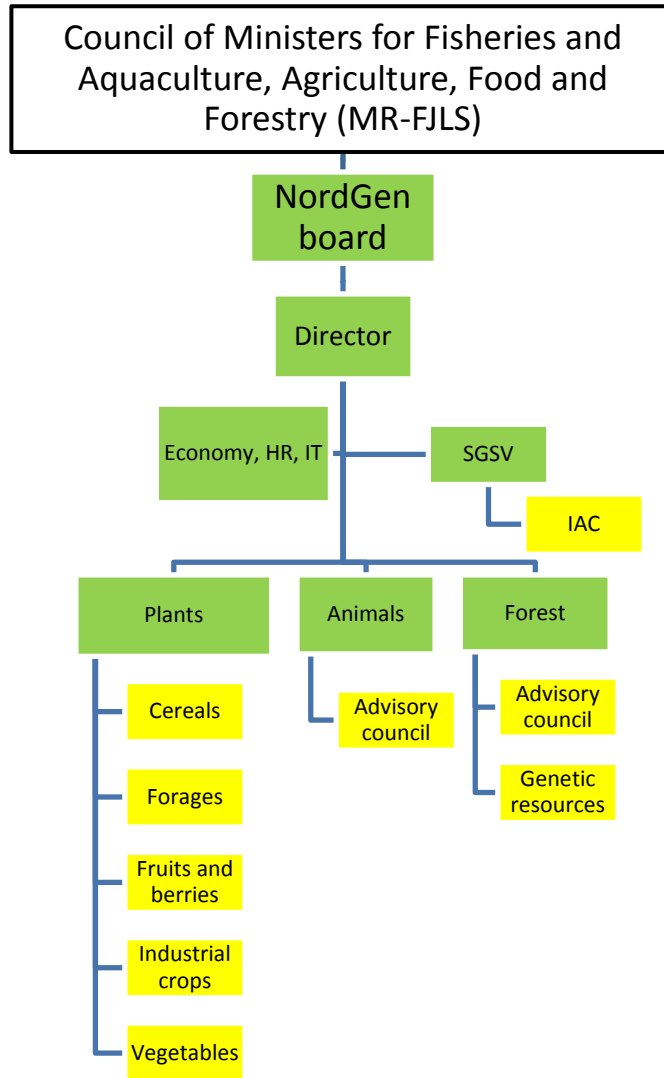


Figure 1. Organogram for NordGen with SGSV.

The overall framework for the tasks carried out by NordGen is organized into four platforms: 1) Overall administration; 2) Information management; 3) Practical Seed administration and 4) Public relations. A senior advisor provides overall leadership and internal coordination of entering into deposit agreements, planning and preparing for seed shipments, and handling of the deposit openings on the site. The senior advisor also works with public requests for information and visits to the site. All NordGen activities are done in cooperation with the partners LMD and the Crop Trust.

## **Platform 1: Overall Administration & IAC Secretary Administration**

The overall administration includes coordination and liaising with all relevant stakeholders to SGSV including, but not restricted to, LMD, the Crop Trust, Statsbygg, the governor of Svalbard, and depositors. This platform also includes the provision of secretariat services for the International Advisory Council (IAC) in accordance with the Three Party Agreement.

The financial administration covers annual financial statements to be presented to the Crop Trust and LMD, bookkeeping's of records and original vouchers in accordance with Nordic Council of Ministries practice. Open book inspection service available for the Crop Trust and the LMD. NordGen reports on its work throughout the year in meetings between the partners and more formally in its annual progress report for SGSV. NordGen prepares an annual budget for each financial year (to be approved by the Crop Trust and LMD), submitted by April 1 of the year prior to the onset of the budget period.

The secretary administration tasks for IAC lies within (1) budgetary administration (2) planning, arrangements and follow up of IAC meetings and (3) general secretary services for IAC members.

### **Deposit Agreement signing and deposit coordination**

By the end of 2014 NordGen had signed the Deposit Agreements (DA) with 63 institutions and accepted safety duplicates from 61 (Annex 1). Three institutes had not yet made deposits while one had made deposits, but not signed the DA. The depositor without DA (NCGRP) signed the agreement in January 2015. One of the existing DA holders which had not yet made a deposit (NBPGR, India) made their first, albeit small, deposit in 2014. As a result of targeted invitation to genebanks identified as holders of unique crop diversity, two DAs were signed in 2014 with institutes in Austria and Bulgaria. Twelve of the existing 61 depositors are International Agricultural Research Institutes (IARCs), 41 are national genebanks, 2 are regional genebanks, 5 are university genebanks and one is a NGO genebank. Figure 2 shows the proportion and numbers of safety duplicates deposited by different types of genebanks.

Figure 3 shows the location and relative size of deposits from the different depositors. The largest share of the current holdings in the SGSV is deposited by IARCs represented by several institutes belonging to the Consultative Group of International Agricultural Research Centres (CGIAR), the Asian Vegetable Research Centre (AVRDC) and the Tropical Agricultural Research and Higher Education Centre (CATIE), all hold collections of PGRFA in trust for the UN Food and Agriculture Organisation (FAO). Considering the national and subnational collections, the majority of the depositors are located in developing regions; however the number of safety duplicates sent from institutes in developing regions is smaller than the number sent from institutes in developed regions.



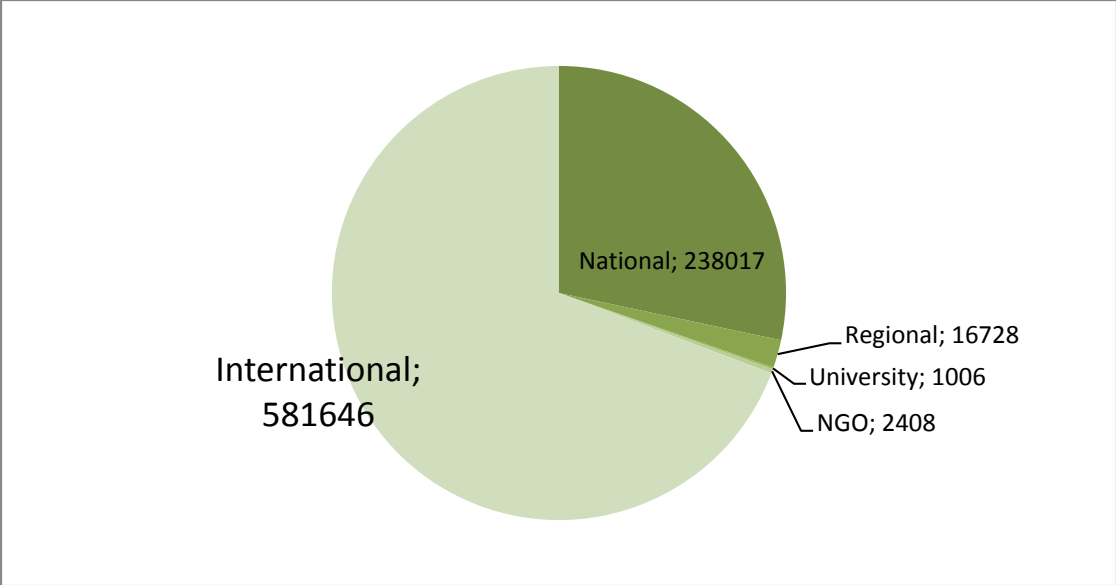
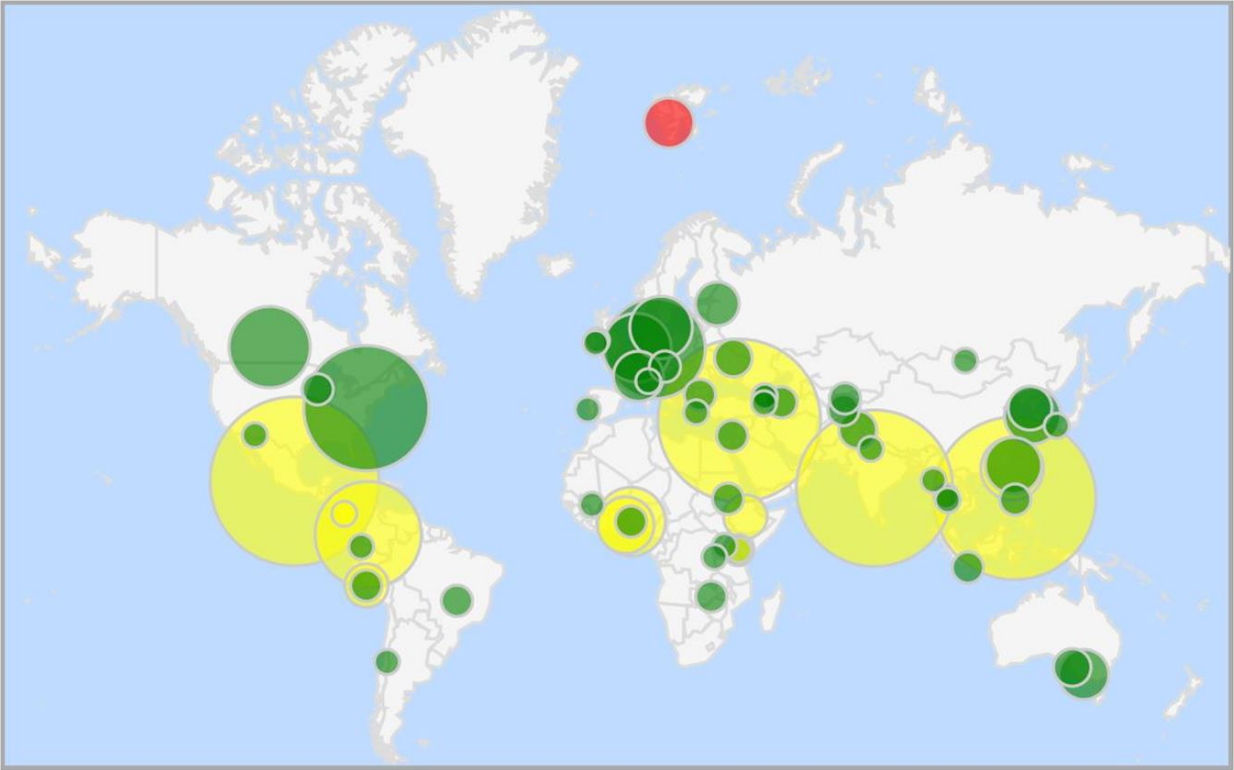


Figure 2. The proportion and numbers of safety duplicates deposited by different types of genebanks.



Depositor institutes Green:National genbanks, Yellow:International institutes

Figure 3. Genebanks with safety deposits in the Svalbard Global Seed Vault. The radius of the circles is relative to the number of samples deposited, and the circle size reflects the size of the deposits according to 25 size classes. Yellow circles are International Agricultural Research Centres and green circles are regional, national or subnational genebanks. The radius of the red SGSV circle is not relative to the holdings.

## Platform 2: Information management

This platform serves the development, technical service to depositors, and maintenance of the databases. NordGen maintains two databases for the SGSV; one box level storage system database and one safety duplicate level database with descriptors of all the material stored.

Depositors are required to provide electronic inventories of the material they wish to deposit prior to shipment to Svalbard. The purpose of receiving the data prior to shipment is to allow NordGen to check if the data is of satisfactory quality, as well as to check for obvious duplications of material already stored in the vault. Depositors report a minimum set of descriptors necessary for unique identification of the samples. Information for depositors is provided on the “guidelines for depositors page” of [www.nordgen.org/sgsv](http://www.nordgen.org/sgsv). The database is updated directly following every seed deposit event. The data is publicly available and searchable on the Information Sharing page of [www.nordgen.org/sgsv](http://www.nordgen.org/sgsv).

The data portal is an important tool in NordGen’s interaction with partners, especially the Crop Trust and the depositors. The data portal is also a standard reference for journalists searching for the latest statistics and biological and geographic descriptors of the material stored in SGSV. There are links to this portal both from NordGen’s homepage and the official webpage of the Seed Vault maintained by LMD ([www.seedvault.no](http://www.seedvault.no)) as well as the website of the Crop Trust ([www.croptrust.org](http://www.croptrust.org)).

The SGSV is part of the emerging global system for *ex-situ* conservation of PGRFA. An important element in that system is the global accession level database Genesys – Gateway to genetic resources database (<http://www.genesys-pgr.org/>). The provider institute code, accession number and genus in the SGSV data base is matched with data in Genesys and the database now reports whether the accession is backed-up at Svalbard or not (Figure 4).

The databases of SGSV are maintained on separate servers at NordGen headquarters in Sweden. All data are backed-up daily to two different locations: A dedicated backup server and a remote server located in another town.

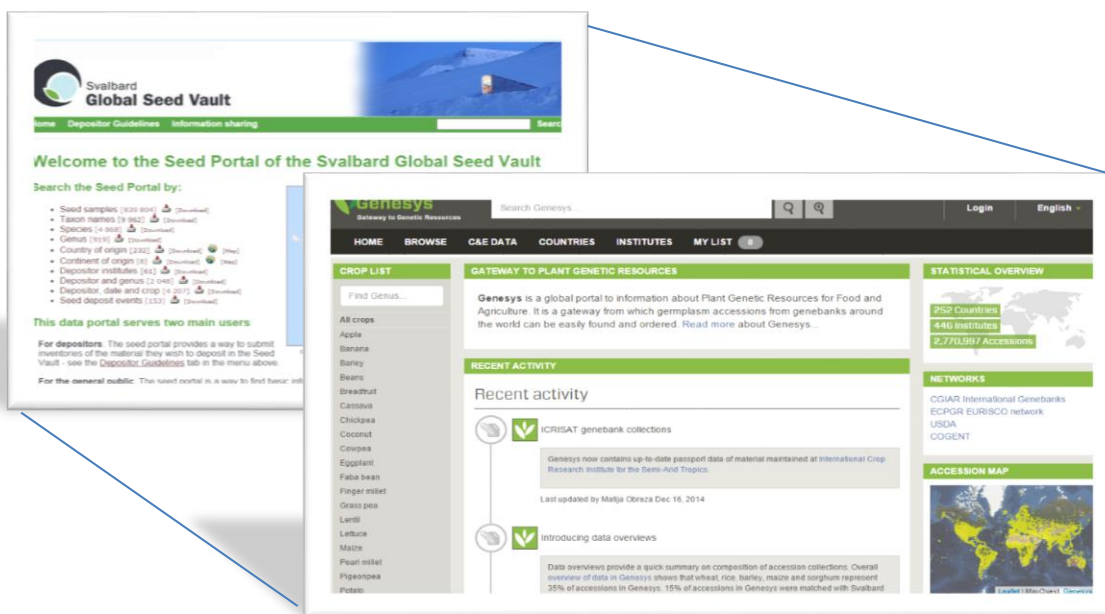


Figure 4. The “Seed Portal” is the public interface of the SGSV and the information from this database is also available through the global level accession database –Genesys.

### **Platform 3: Practical Seed Administration**

Overall management of transport logistics for seeds deposited is managed by NordGen. The practical seed administration further covers assistance regarding security, customs, phytosanitary certificates and other relevant clearances. NordGen communicates closely with depositors on all practical aspects of making shipments. The depositors are instructed to make the shipment with a regular courier such as DHL, TNT etc. from their genebank to Oslo. In the many cases where the shipment cost is covered by the Global Crop Diversity Trust, NordGen and Trust staff works in close collaboration to ensure proper packaging, etc. To avoid problems with the bottleneck between the mainland and Svalbard, NordGen organizes transport from Oslo to Longyearbyen together with a private logistics company. NordGen renegotiates and enters into contracts for the Oslo-Longyearbyen logistics on an annual basis and in 2014 we worked with the company Jetpak.

Logistics at Svalbard is coordinated by NordGen and handled in close collaboration with the local logistics company, Pole Position. Screening and security at arrival in Svalbard is handled in collaboration with the airport management at Longyearbyen airport and the security company, Securitas. Statsbygg provides support with logistics and technical backstopping during deposit openings at Svalbard. Overall security during transport between the airport and the Seed Vault is provided by the police department at the Governor's office. NordGen receives, registers and stores seed boxes inside the Seed Vault. The routines for the management of DAs, organization of deposit logistics, data handling and practical on-site logistics and security is streamlined and formalized in Working Instructions under NordGen's Quality Management System.

NordGen has organized between three and six openings of the SGSV for storage of new safety duplicates per year since the opening in 2008. Depositors are asked to organize shipments for arrival in Oslo during seven days windows. In 2014 NordGen organized four deposit openings (Table 1).

**Table 1. Deposit openings in 2014**

<b>Deposit Opening</b>	<b>Institute_acronym</b>	<b>Institute_code</b>	<b>Safety duplicates</b>
<b>February 2014</b>	SARDI	AUS006	2926
	AGG	AUS165	7143
	EMBRAPA	BRA008	514
	BWPRC	JPN009	575
	CIMMYT	MEX002	7234
	CIP	PER001	256
	ICARDA	SYR002	2574
	SSE	USA974	169
<b>April 2014</b>	AGES	AUT001	1457
	NBPGR	IND001	25
<b>October 2014</b>	IPGRBG	BGR001	933
	CIAT	COL003	2374
	ICRISAT	IND002	4352
	AVRDC	TWN001	1642
<b>November 2014</b>	IPK	DEU146	5878

## Platform 4: Public Relations

In this section of the progress report we report on NordGen's public relations work. In addition to NordGen, both LMD and the Trust do active PR-work in connection with the Seed Vault.

NordGen's work with public outreach and information about the SGSV is done through several arenas: we respond to questions about the operation from the public and the media; we present the SGSV to different scientific and general audiences through public presentations; we give interviews to the press and write about the SGSV in various publications; we conduct visits to the SGSV for prioritized groups and media.

Article 4 in the three-party agreement between the Ministry, the Crop Trust and NordGen provides that the Parties to the Agreement are to "contribute to and, as appropriate, take part in information activities related to the objectives and the role of the Svalbard Global Seed Vault. Such information activities should be aimed at public awareness and at potential depositors to the Svalbard Global Seed Vault. Each Party shall inform each other on a regular basis on such activities and, as appropriate, ensure good coordination of such activities."

NordGen receives a large number of requests for visits, information, interviews and lectures about the Seed Vault. NordGen takes care to answer all serious requests and in 2014 we responded to 130 independent requests, out of which 58 came from the media, 6 came from artist, 19 were policy related and 27 were miscellaneous requests for information. NordGen does not develop press-releases and largely focuses on incoming requests, including contribution of book chapters, lectures at conferences and articles in popular science media. The general guiding principle is that we «bring the seed vault to the people rather than people to the vault». However, in connection with deposit openings and in very special cases NordGen hosts selected media and VIP visits. This is always done in close collaboration and coordination with the other partners. The visits typically involve a lecture and a guided tour of the facility. Some of the more notable visits in 2014 were those of the IPCC leadership, EU Chief Scientist Anne Glover and a delegation from the Indian government and India's genebank, NBPGR, on the occasion of their first deposit.

In 2014, NordGen took part in outreach effort to the local population in Longyearbyen. Longyearbyen Science and Education Forum organized a public event about SGSV at the University Center. The event and the talks were well attended and the winners of a quiz about the SGSV were taken on a visit inside the Vault itself. Furthermore, NordGen invited staff from the Svalbard Museum and the tourist office on a guide tour to the Vault. These activities were considered important both because it is important that people in Longyearbyen have a sense of ownership and responsibility to the Seed Vault and because people in the local tourist industry is the first line of informants to many visitors inquiring about the SGSV.

An interesting development is the increased interest from researchers in studying the SGSV and its context. In 2014 we had several visits of researchers, mostly social scientists, with projects involving the SGSV.



Figure 5. The IPCC leaders Christiana Figueres and Rajendra Pachauri visiting the Seed Vault in May 2014.

## Financial result and other activities

### Financial result

Financial result for 2014 amounts to SEK 523.873 as stated in the Budget and spending report in annex 2. Costs have been lower than budgeted on all budget lines (personnel, travel, communication etc.) during the year. Main reason for this is that the budgeted IAC-meeting was postponed until February 2015 and that no funds were spent on the long-term experiment. The positive result has been transferred to working capital fund, this amount as per 31 December 2014 to SEK 1.408.874.

### Storage Capacity Assessment

So far we are only making use of one of the Seed Vault's three chambers. NordGen, in consultation with partners and depositors annually analyze the storage capacity in chamber 2, which contains the seeds, and consider eventual needs for cooling of an additional chamber.

In 2013 we reported that we considered it unlikely that a new hall would be necessary before 2017. Considering the slowdown in deposits the last few years, we now consider it unlikely that a new hall will be needed earlier than 2018-2019.

The total storage capacity with the current shelving is 2880 boxes. The current holding in the Seed Vault is 2345 boxes, including test boxes and two boxes with seeds from the local Svalbard flora. In addition it is possible to mount 288 more slots by re-installing sections that were temporarily removed in 2009 (8x36 slots). (This will require that the fence inside hall 2 is removed) See figure 6 & 7 for an illustration of the increase in number of boxes over the years. In 2014 we received 100 new regular deposit boxes. Thus, even if we receive 200 boxes per year in the next four years we will have space in the current hall.

Uncertainties with these estimate are: 1) We do not know how much current and future depositors want to deposit in the coming few years (NordGen asks this information from all depositors every year, but the information is not complete) 2) We do not know how many new depositors will join the project in the coming years and we do not know how compact they will be able to package.



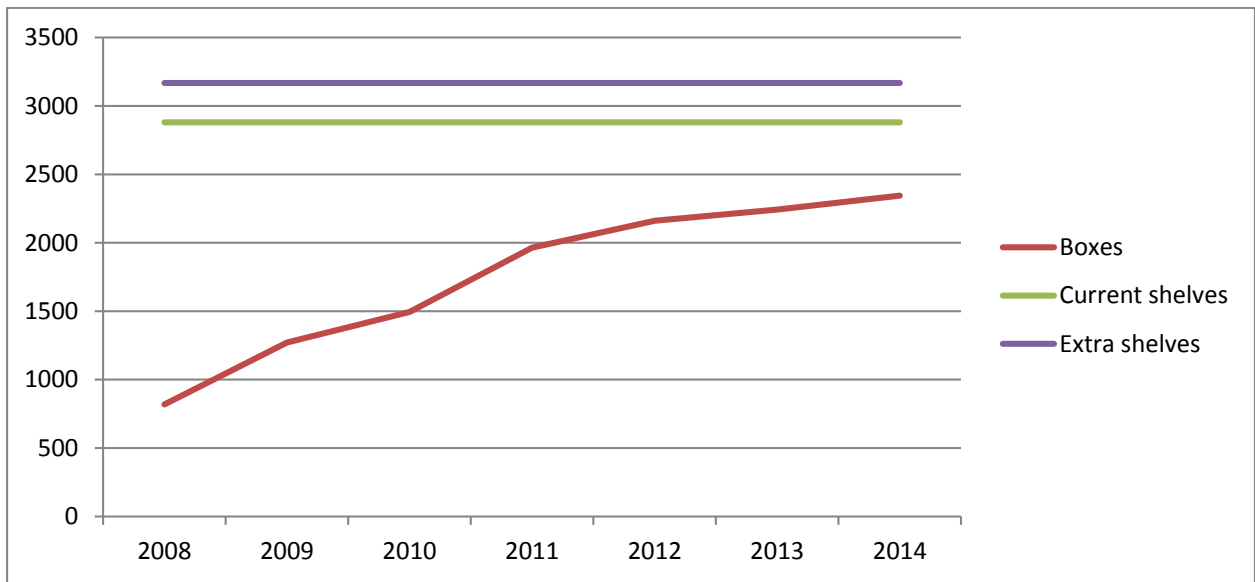


Figure 6. Total number of boxes vs. storage capacity in Vault chamber 2

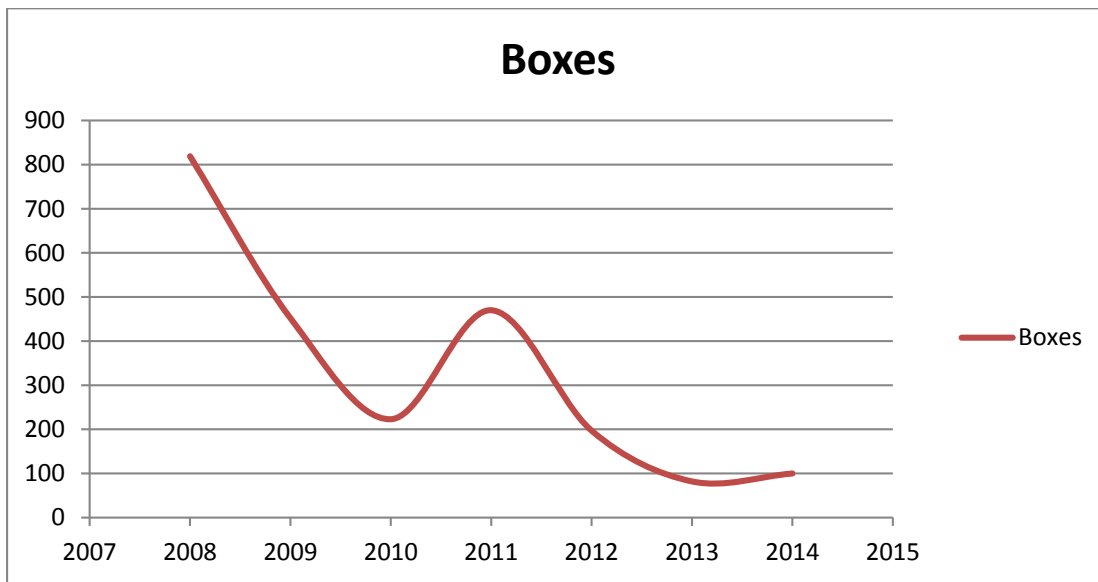


Figure 7. Number of boxes arriving per year 2008-2014

**Annex 1. List of depositors to the Svalbard Global Seed Vault listed in order of Deposit Agreement signature.**

Acronym	Country	Institute name	SDA	Accessions_End2014
WARDA	International, Benin	Africa Rice Center	2007/2008	12439
CIAT	International, Columbia	Centro Internacional de Agricultura Tropical	2007/2008	50272
CATIE	International, Costa Rica	CATIE	2007/2008	723
ILRI	International, Ethiopia	International Livestock Research Institute	2007/2008	5335
ICRISAT	International, India	International Crop Research Institute for the Semi-Arid Tropics	2007/2008	108352
ICRAF	International, Kenya	World Agroforestry Centre	2007/2008	777
CIMMYT	International, Mexico	Centro Internacional de Mejoramiento de Maiz y Trigo	2007/2008	130291
IITA	International, Nigeria	International Institute of Tropical Agriculture	2007/2008	18813
CIP	International, Peru	Centro Internacional de la Papa	2007/2008	7081
IRRI	International, Philippines	International Rice Research Institute	2007/2008	116,668
ICARDA	International, Syria	International Centre for Agricultural Research in Dry Areas	2007/2008	116,484
AVRDC	International, Taiwan	The World Vegetable Center	2007/2008	14,411
NORDGEN	Regional, Sweden	Nordic Genetic Resource Center	30.01.2008	15265
IPK	Germany	Leibniz Institute of Plant Genetics and Crop Plant Research	30.01.2008	42412
CGN	Netherlands	Centre for Genetic Resources	30.01.2008	18642
PGRI-NARC	Pakistan	Plant Genetic Resources Institute, National Agricultural Research Centre	30.01.2008	2875

SSE	USA	Seed Savers Exchange	30.01.2008	2408
NGBK	Kenya	Kenya Agricultural & Livestock Research Organisation (KALRO): Genetic Resources Research Centre	26.02.2008	1314
NAC	South Korea	National Agrobiodiversity Center	06.05.2008	13185
IAS	Macedonia	Institute of Agriculture Skopje	11.06.2008	0
NCPGR	India	National Burea of Plant Genetic Resources	04.07.2008	25
VIR	Russia	N.I. Vavilov All-Russian Scientific Research Institute of Plant Industry	04.07.2008	5278
RAC	Switzerland	Station Federale de Recherches en Production Vegetale de Changins	27.10.2008	9665
EMBRAPA	Brazil	EMBRAPA	06.11.2008	1319
AFT	Ireland	Oak Park Research Centre	16.01.2009	577
DAFF	Ireland	Department of Agriculture, Food and Rural Development	22.01.2009	100
TARI	Taiwan	Taiwan Agricultural Research Institute	26.02.2009	10503
UAAS	Ukraine	Institute of Plant Production n.a. V.Y. Yurjev of UAAS	03.03.2009	2782
PGRC	Canada	Plant Gene Resources of Canada, Canadian Genetic Resources Program, Saskatoon Research Centre	05.11.2009	25868
ILRF	Georgia	I. Lomouri Research Institute of Farming.	23.02.2010	305
AAS	North Korea	Pyongyang AAS	18.03.2010	5700
La Molina	Peru	Programma de Mais	25.05.2010	1296
ICCI	Israel	Institute of Cereal Crop Improvement, Tel Aviv University	23.06.2010	900

DELEP	USA	Desert Legume Program. University of Arizona	24.08.2010	134
ARC	Sudan	Agricultural Research Corporation	18.10.2010	1195
SPGRC	Regional, Zambia	SADC Plant Genetic Resources Centre	09.11.2010	1463
NAGREF	Greece	National Agricultural Research Organization	02.02.2011	25
ICABIOGRAD	Indonesia	Indonesian Center for Agricultural Biotechnology and Genetic Resources	02.02.2011	1050
DAR (MOAI)	Myanmar	Department of Agricultural Research	23.02.2011	718
INIAP	Ecuador	Instituto Nacional Autónomo de Investigaciones Agropecuarias	12.04.2011	168
NARO	Uganda	National Agricultural Research Organization	26.05.2011	777
BARI	Bangladesh	Plant Genetic Resource Centre, Bangladesh Agricultural Research Institute	10.06.2011	0
LS	Italy	University of Pavia, Department of Earth and Environmental Sciences, Lombardy seed bank	23.06.2011	2
NACGRAB	Nigeria	National Centre for Genetic Resources and Biotechnology (NACGRAB)	06.09.2011	800
IRAG	Guinea	Institut de Recherche Agronomique de Guinée	07.10.2011	0
RNGRC	Tajikistan	Republican National Genetic Resource Center	14.11.2011	1646

AGRI	Azerbaijan	Genetic Resources Institute (AGRI) of the Azerbaijan National Academy of Sciences	17.02.2012	1522
INRB	Portugal	Instituto Nacional de Recursos Biológicos	05.03.2012	12
ISABU	Burundi	Agricultural Research Institute of Burundi	19.06.2012	365
IER	Mali	Institute of rural economy	19.09.2012	158
PSARTI	Mongolia	Plant Science Agricultural Research Institute	02.10.2012	160
INIA La Platina	Chile	Unidad de Recursos Genéticos -INIA La Platina	03.10.2012	43
AUG	Georgia	Georgia State Agrarian University	15.10.2012	120
NPGRL	Philippines	National Plant Genetic Resources Laboratory	18.10.2012	2254
ASAU	Armenia	Armenian State Agrarian University, Laboratory of Plant Gene Pool and Breeding	16.12.2012	175
CN FCRC	Thailand	Chainat Field Crops Research Center	01.03.2013	150
UzRIPI	Uzbekistan	Uzbek Research Institute of Plant Industry	01.03.2013	2038
SARDI	Australia	South Australian Research and Development Institute	12.06.2013	2926
AGG	Australia	Australian Grains Genebank/Australian Tropical Crops Collection	26.11.2013	7486
BWPRC	Japan	National University Corporation Okayama University	26.11.2013	575

NRSSL	Thailand	National Rice Seed Storage Laboratory for Genetic Resources, NRSSL, Rice Department	14.08.2013	81
AGES	Austria	Austrian Agency for Health and Food Safety, Dept. for Plant Genetic Resources	17.03.2014	1457
BGRIPGR	Bulgaria	Institute for Plant Genetic Resources "K.Malkov"	17.03.2014	933
NCGRP	USA	National Center for Genetic Resources Preservation, USDA	SIGNED 18.01.2015	69307
Total				839,805

## Annex 2. Budget and spendings 2014

### Budget and spending report 2014

Activity	Cost Category	Items	Cost basis		Budget 2014	Actual spending
			SEK	Qty	SEK	SEK
709512: Coordinator	Personnel <sup>(a)</sup>	Coordinator	98 000	6	588 000	658 238
	Travel <sup>(b1)</sup>	To Svalbard and other destinations	15 000	6	90 000	53 752
	Communication / supplies	Phone, computer, printer, mailing etc.	30 000	1	30 000	15 602
<b>Sub-total</b>					<b>708 000</b>	<b>727 592</b>
709513: Platform 1 - Overall Administration	Personnel	Director and Finance Director	168 000	1	168 000	255 464
	Communication / supplies	Phone, printer, mailing etc.	20 000	1	20 000	13 187
	Travel <sup>(c)</sup>	To Svalbard and other destinations	15 000	2	30 000	5 379
<b>Sub-total</b>					<b>218 000</b>	<b>274 030</b>
709514: Platform 2 - Information Management	Personnel <sup>(a)</sup>	IT-manager	98 000	1,8	176 400	206 128
	Travel <sup>(b2)</sup>	To Svalbard	10 000	1	10 000	7 624
	IT System	Computer				
	IT System	Server, web	54 000	1	54 000	54 000
<b>Sub-total</b>					<b>240 400</b>	<b>267 752</b>
709515: Platform 3 - Practical Seed Administration	Personnel <sup>(a)</sup>	Seed Technician	98 000	1	98 000	69 359
	Travel <sup>(b2)</sup>	To Svalbard	10 000	3	30 000	31 544
		Vehicle hire, local supplies	30 000	1	30 000	27 169
<b>Sub-total</b>					<b>158 000</b>	<b>128 072</b>
709516: Platform 4 - PR	Personnel <sup>(a)</sup>	Scientific information expert	98 000	6	588 000	475 614
	Travel <sup>(b1)</sup>	To Svalbard and other destinations	15 000	6	90 000	92 715
	Materials for media	External filming, editing and multiplication	30 000	1	30 000	
	Communication / supplies	Phone, printer, mailing etc.	25 000	1	25 000	3 383
<b>Sub-total</b>					<b>733 000</b>	<b>571 712</b>
709517: International Advisory Council	Personnel	Director	168 000	0,5	84 000	
	Personnel <sup>(a)</sup>	Other staff	98 000	0,3	29 400	
	Travel <sup>(b1)</sup>	Meeting at Svalbard	15 000	12	180 000	2 769
	Communication/Supplies	Communication (phone, printer, mailing etc.)	5 000	1	5 000	
	Expenditure	Meeting costs	40 000	1	40 000	
<b>Sub-total</b>					<b>338 400</b>	<b>2 769</b>
709519: Pilot Project - Longterm storage		Testing, Testing Materials, Procedures	100 000	1	100 000	
<b>Sub-total</b>					<b>100 000</b>	<b>0</b>

<b>Total costs 2014 SEK</b>	<b>2 495 800</b>	<b>1 971 927</b>
<b>Result 2014 SEK</b>		<b>523 873</b>
<b>TOTAL SEK</b>	<b>2 495 800</b>	<b>1 971 927</b>
<b>TOTAL US\$ <sup>(d)</sup></b>	<b>\$320 385</b>	<b>\$253 136</b>
<b>WORKINGCAPITAL FUND SEK per 2014-12-31<sup>(d)(e)</sup></b>		<b>1 408 874</b>
<b>WORKINGCAPITAL FUND US\$ per 2014-12-31<sup>(d)(e)</sup></b>		<b>\$180 857</b>

<sup>(a)</sup> NordGen Personnel costed at avg SEK 98,000/month and director SEK 168,000/month.

<sup>(b1)</sup> Travel costed at avg SEK 15,000/trip, Svalbard and other destinations

<sup>(b2)</sup> Travel costed at avg SEK 10,000/trip, Svalbard

<sup>(c)</sup> Travel costed at 2\*SEK 10,000/trip to Svalbard and 2\*SEK 5,000/trip to Oslo

<sup>(d)</sup> Based on exchange rate at Dec 2014: 1 US Dollar = 7,79 SEK

<sup>(e)</sup> Workingcapital Fund - adjusted as per 2014-12-31 with the positive result for 2014.

Income 2014 comes from - \$140.770 Global Crop Diversity Trust, SEK 1.513.465 LMD, SEK 80.000 NordGen.