

Annual report

Implementation of the External Bursary Scheme 2013/14



agriculture,
forestry & fisheries

Department:
Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

Annual report

**Implementation
of the External Bursary Scheme
2013/14**

2014

Published and printed by

Department of Agriculture, Forestry and Fisheries
Directorate: Communication Services
Private Bag X144, Pretoria 0001

ISBN 978-1-86871-407-0

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Acronyms

ARC	Agricultural Research Council
B.A.	Bachelor of Arts
B.Com.	Bachelor of Commerce
B.Sc.	Bachelor of Science
BVSc	Bachelor of Veterinary Science
DAFF	Department of Agriculture, Forestry and Fisheries
SET	Sector Education and Training
FET	Further Education and Training
GCIS	Government Communication and Information System
HET	Higher Education and Training
Hons	Postgraduate degree (Honours)
HRD	Human Resources Development
M.Sc.	Master's degree in Science
Nat.Dipl.	National Diploma
NRF	National Research Foundation
NSF	National Skills Fund
NSFAS	National Students' Financial Aid Scheme
Ph.D.	Postgraduate degree (Doctorate)
SAQA	South African Qualifications Authority

Definition of terms

Academic performance	Performance or progress of bursary holder through monthly tests, assignments, tutorials and examinations in order to assess their academic progress
Bursary holder	Any person to whom a study bursary/aid is granted
Career awareness schools	The best performing schools which were identified by the DAFF in previously disadvantaged communities to create agriculture, forestry, and fisheries awareness among school-going youth and to identify performing learners to be worthy recipients of the bursary fund
External Bursary Scheme	A scheme of the DAFF that offers financial assistance to deserving students to further their studies at institutions of higher learning
Fail	The performance of bursary holders who are regarded as incompetent and were retained at the same level of study
Institution	Any SAQA-recognised university, university of technology, college or secondary school inside the boundaries of South Africa
Pass	The performance of bursary holders who are deemed competent and proceed to the next level of study
Study field	Any department/faculty approved degree or diploma at an institution
Student counselling and support	Support given to bursary holders in the form of group/individual guidance to explore and remedy the academic problems and challenges that might affect the performance of a bursary holder

Executive summary

The 2013/14 Annual report on the implementation of the external bursary scheme covers activities relating to the 2013/14 bursary awards and the management processes in terms of recruitment, selection, monitoring and evaluation of the academic performance as well as counselling support services offered to bursary holders.

The report indicates that a total of 316 students were awarded bursaries to further their studies during the 2013 academic year. In terms of race, 272 (86,1%) Africans, 22 coloureds (7,0%), 8 Indians (2, 5%), and 14 whites (4,4%) benefited from the scheme in 2013. With regard to gender, 123 (38,9 %) are males and 193 (61,1%) are females. Out of the 316 bursary holders, 167 constituted new intake additional to the 149 beneficiaries who were already in the system. Of the new intake, 88 were undergraduates, 21 postgraduates (B.Tech. Hons, Masters and D.Tech.) and 58 were high school learners from DAFF Career Awareness Schools.

Monitoring and evaluation constitute a critical element of ensuring the success of the implementation of the scheme. Bursary monitoring meetings as well as one-on-one student support meetings were conducted at various institutions of higher learning. The success of the External Bursary Scheme is measured through the academic performance of students and is a critical tool to measure return on investment. Of the 316 beneficiaries who were awarded bursaries, 311 wrote their 2013 end-of-year examinations. Of the 311, 293 (94,2%) passed and 18 (8,8%) failed. Despite the support given to bursary holders, five of them discontinued their studies because of poor performance, exclusion or ill health.

Regarding analysis of return on investment using academic performance as a tool, 71 beneficiaries, consisting of undergraduate and postgraduate students, successfully completed their studies in 2013.

1. Background and management processes

1.1 Introduction

The Department of Agriculture, Forestry and Fisheries (DAFF) introduced the External Bursary Scheme in 2004 in response to a government call to bridge the skills gap, promote rural development and to eliminate skewed participation in South Africa. The scheme is used as a vehicle to create a pool of researchers, scientists, skilled professionals and technicians in areas regarded as scarce and critical in agriculture, forestry and fisheries.

The scheme is implemented through an approved policy and its recruitment drive targets young people from previously disadvantaged and poverty-stricken rural communities with good symbols in Mathematics and Physical Science to be recipients of DAFF bursaries to further their studies in one of the identified scarce and critical skills in agriculture, forestry and fisheries. The scheme is further used by DAFF as a skills pipeline to contribute towards the promotion of inclusive economic growth, job creation and food security by ensuring a constant supply of required skilled personnel in the highly competitive agriculture, forestry and fisheries industry.

Currently the scheme receives a budget of R16,3 million of which R12,5 million was transferred to the National Students' Financial Aid Scheme (NSFAS) solely to be administered. The allocation of bursaries to deserving students is undertaken by the National Bursary Committee guided by the 14-point system criteria as outlined in section 7.2 of the approved DAFF's External Bursary Policy and Procedures. The implementation, monitoring, and evaluation of the External Bursary Scheme reside with the Directorate: Sector Education and Training.

Since the inception of the scheme in 2004, 1 121 young people have benefited from a variety of bursary awards. Of this total, 514 successfully completed their tertiary qualifications.

1.2 Objectives

The primary objective of the External Bursary Scheme is to contribute towards human resources development in the agriculture, forestry and fisheries sectors, in line with the following strategic objectives:

1.2.1 New entrants

To encourage and enable learners at pretertiary level to identify and nurture their potential at an early stage and to have more scientists at the highest level, relevant to the present and future market needs of the sector and the economy.

1.2.2 Access

To increase the number of scientists in the agriculture, forestry and fisheries designated groups and consequently to increase the number of farmers from designated groups at commercial level.

1.2.3 Competitiveness

To contribute towards making the agriculture, forestry and fisheries sectors more competitive and more representative of South Africa's demographics by providing learning opportunities for those previously marginalised..

1.2.4 Needs directed

To focus on the needs of the agriculture, forestry and fisheries sectors.

1.2.5 Redress

To address the government's transformation processes and skewed participation in the agriculture, forestry and fisheries sectors.

1.3 Bursary management process

1.3.1 Advertisement of bursary awards

The process of advertising bursaries starts with the collection of information on the prioritised scarce and critical skills in agriculture, forestry and fisheries from technical line function directorates within the DAFF, provincial departments of agriculture and relevant stakeholders across the agricultural, forestry and fisheries sectors using the needs analysis questionnaire. The needs analysis questionnaires were sent to all relevant stakeholders in April 2012. The information on scarce skills collected from the needs analysis were analysed and the following fields of studies were prioritised for the 2013 academic year:

- Bachelor of Veterinary Science (B.V.Sc.)
- B.Sc. Bioresource Engineering
- B.Sc. Viticulture and Oenology
- B.Sc. Food Science
- B.Sc. Geo-informatics
- B.Sc. Plant Pathology
- B.Sc. Agric. Soil Science
- B.Sc. Agronomy
- B.Sc. Forestry and Wood Science
- B.Sc. Marine Biology
- B.Sc. Oceanography and Marine Biology
- B.Sc. Ichthyology specialising in Aquaculture
- Nat Dipl. Food Technology
- Nat Dipl. Forestry
- Nat Dipl. Oceanography
- Postgraduate (B.Tech. Hons, M.Sc. and Ph.D.) in relevant agriculture, forestry and fisheries study fields linked to DAFF research projects

Based on the skills that were identified and prioritised, an advert was compiled and published in the New Age, Isolezwe, Cape Argus, Daily Sun and Sunday Times in June 2012 with the assistance and guidance from the Directorate: Communication Services. In addition to the national print media advertisements, the opportunities were also advertised through the website of the DAFF.

Promotion of the 2013 DAFF's external bursary opportunities was also done through the distribution of posters during July 2012 to institutions of higher learning, colleges of agriculture, high schools, community libraries, Agricultural Research Council, Land Bank, provincial departments of agriculture, as well as notice boards of the DAFF buildings in Pretoria, Cape Town and regional offices.

In response to the 2013 advert, a total of 2 018 (two thousand and eighteen) applications from potential applicants were received, captured and analysed as follows:

- | | |
|-----------------------------------|-----|
| • Bachelor of Veterinary Science | 145 |
| • B.Sc. Bioresource Engineering | 87 |
| • B.Sc. Viticulture and Oenology | 21 |
| • B.Sc. Food Science | 101 |
| • B.Sc. Geo-informatics | 19 |
| • B.Sc. Plant Pathology | 47 |
| • B.Sc. Soil Science | 123 |
| • B.Sc. Agronomy | 89 |
| • B.Sc. Forestry and Wood Science | 33 |
| • B.Sc. Marine Biology | 42 |

• B.Sc. Oceanography and Marine Biology	13
• B.Sc. Ichthyology specialising in Aquaculture	03
• B.Sc. Agric. Economics	01
• B.Sc. Plant Sciences	01
• Nat. Dipl. Food Technology	141
• Nat. Dipl. Oceanography	28
• Nat. Dipl. Forestry	106
• Nat. Dipl. Agriculture	03
• Total irrelevant	1 015

Total applications received 2 018

Out of the 2 018 applications received, 1 003 were relevant and fundable and 1 015 were irrelevant because applicants had applied for fields of studies not advertised. Letters of acknowledgement were sent to 1 003 applicants who applied for relevant fields and regret letters were sent to applicants who applied for irrelevant fields of studies and advice was provided in the letters to rather consider study fields sponsored by the DAFF External Bursary Scheme.

1.3.2 Selection of qualifying applicants

The entry requirements for all the fields of study vary. However, all of them require a bachelor's degree pass in Grade 12 coupled with good symbols in Mathematics and Physical Science. The selection of qualifying candidates is undertaken by National Bursary Committee as outlined in section 7.2 of the DAFF's External Bursary Scheme Policy and Procedure. The selection of qualifying candidates is done by applying the 14-points system which takes into account: race, gender, disability, academic performance and the economic and financial status of the candidate. The National Bursary Committee comprises 12 members made up of representatives from the following:

- Nine provincial departments of agriculture (one HRD Manager from each province)
- Director: Sector Education and Training from the DAFF
- One representative from the Land Bank
- One representative from the Agricultural Research Council (ARC).

The National Bursary Committee meeting to finalise the selection of qualifying applicants was held on 16 January 2013 and as the highest decision-making body, the committee agreed on the following criteria for the 2013 awards:

- That the total number of bursary awards for 2013 academic year be based on the total budget available, also taking into consideration savings accruing from completed bursary holders as at the end of 2012 academic year.
- That based on what DAFF can ensure is available for 2013, which is R4 623 143,00 (four million, six hundred and twenty-three thousand, one hundred and forty-three rand) a total of 58 (fifty-eight) awards be approved by the NBC.
- That the approved departmental 14-point system shall be used in the selection of 58 successful candidates for 2013.
- That in case additional funds are secured to augment the R4 623 143,00 budget, additional awards shall be made to qualifying candidates using the 14-point scale and some of the fields of study shall be prioritised above others based on their level of scarcity. These include but are not limited to B.V.Sc., B.Sc. Bioresource Engineering, B.Sc. Viticulture and Oenology, B.Sc. Oceanography and Marine Biology, B.Sc. Geo-informatics and B.Sc. Forestry and Wood Science.
- That based on a record of 1 003 (one thousand and three) relevant applications received for various study fields for 2013, high 14 point system scores with outstanding performance in Mathematics and Physical Science shall be used in awarding bursaries for 2013.
- That as mitigation against the risk of a high failure rate, 10 points base on the 14 point system shall be used as a minimum score or an average of 60% academic performance in Mathematics and Physical Science shall be used as minimum if a score of below 10 is considered for the 2013 bursary awards allocations.
- That all learners from the FET "DAFF Career Awareness Schools" who qualify for university admission shall automatically qualify for bursary awards.
- That people with disabilities who secured admission at institutions of higher learning shall be treated as an exception.
- That in the awarding of bursaries the NBC shall fulfil the sector strategic objective of elimination of skewed participation in agriculture, forestry and fisheries in line with the demographics of the country.
- That the decisions of the NBC as an approved statutory structure to oversee the national bursary scheme of DAFF shall be final and no further discussions shall be entered into between members of the public and the Department of Agriculture, Forestry and Fisheries.

Based on the criteria agreed upon by the committee the following numbers of applicants were awarded bursaries per field of study:

• Bachelor of Veterinary Science	13
• B.Sc. Bioresource Engineering	06
• B.Sc. Viticulture and Oenology	04
• B.Sc. Agricultural Economics	01

- B.Sc. Food Science 05
- B.Sc. Geo-informatics 03
- B.Sc. Plant Pathology 02
- B.Sc. Plant Sciences 01
- B.Sc. Soil Science 02
- B.Sc. Agronomy 02
- B.Sc. Forestry and Wood Science 03
- B.Sc. Marine Biology 05
- B.Sc. Oceanography and Marine Biology 01
- B.Sc. Ichthyology specialising in Aquaculture 02
- Nat. Dipl. Food Technology 03
- Nat. Dipl. Oceanography 02
- Nat. Dipl. Forestry 01
- Nat. Dipl. Agriculture 01
- Diploma in Forestry 09

1.3.3 Placement of bursary holders at the various institutions of higher learning

The placement of bursary holders is the critical role of the Bursary Student Counsellor. During January 2013, the Bursary Student Counsellor assisted new bursary awardees with their registrations, securing of accommodation and movement from their respective homes to the institutions of higher learning where they have been admitted for their studies. The process involves working closely with faculty administrators and financial aid officers within the institutions where they have been admitted. The Bursary Student Counsellor ensures that bursary holders have packed their luggage (clothes, toiletries, bedding, cooking utensils, etc.) and have direction maps for their destinations, where they will be accommodated and at which offices to start once they have arrived at the institutions of higher learning.

2 Analysis of the 2013 bursary awards

2.1 Breakdown of all bursary awards for the 2011 academic year

In 2013, 167 new beneficiaries were awarded bursaries in addition to the 149 bursary holders who were already in the system.

TABLE 1 Breakdown of all 2013 bursary awards [n = 316]

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
B.V.Sc.	14	3	6	6	7	24,1	22	75,9	29
B.Sc. Viticulture and Oenology	10	1	0	0	4	36,4	7	63,6	11
B. Agric. Viticulture	1	0	0	2	1	33,3	2	66,7	3
B.Sc. Bioresource Engineering	25	0	1	1	14	51,9	13	48,1	27
B.Sc. Agric. Economics	6	0	0	0	2	33,3	4	66,7	6
B.Sc. Food Science	10	0	0	0	2	20,0	8	80,0	10
B.Sc. Genetics	5	0	0	0	3	60,0	2	40,0	5
B.Sc. Geo-informatics	2	0	0	1	0	0,0	3	100,0	3
B.Sc. Plant Pathology	4	0	1	0	1	20,0	4	80,0	5
B.Sc. Soil Science	8	0	0	0	4	50,0	4	50,0	8
B.Sc. Agronomy	5	0	0	0	1	20,0	4	80,0	5
B.Sc. Plant Sciences	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Pasture Science	5	0	0	0	2	40,0	3	60,0	5
B.Sc. Forestry Science	3	0	0	0	2	66,7	1	33,3	3
B.Sc. Forestry and Wood Science	4	0	0	0	1	25,0	3	75,0	4
B.Sc. Marine Biology	3	3	0	0	0	0,0	6	100,0	6
B.Sc. Oceanography and Marine Biology	0	1	0	0	0	0,0	1	100,0	1
B.Sc. Ichthyology specialising Aquaculture	2	0	0	2	2	50,0	2	50,0	4
Nat. Dipl. Forestry	5	0	0	0	2	40,0	3	60,0	5

TABLE 1 Breakdown of all 2013 bursary awards [n = 316] (cont.)

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
Nat. Dipl. Food Technology	7	1	0	0	3	37,5	5	62,5	8
Nat. Dipl. Oceanography	4	2	0	0	2	33,3	4	66,7	6
Nat. Dipl. Agriculture	1	0	0	0	0	0,0	1	100,0	1
Diploma in Forestry	9	0	0	0	5	55,6	4	44,4	9
Diploma in Agriculture	35	2	0	0	15	40,5	22	59,5	37
National Senior Certificate	52	7	0	0	29	49,2	30	50,8	59
B.Tech. Oceanography	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Applied Remote Sensing and GIS (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Environmental Science (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Biochemistry (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Botany (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Marine Biology (Hons)	1	0	0	0	0	0,0	1	100,0	1
M.Tech. Animal Production	3	0	0	0	1	33,3	2	66,7	3
M.Tech. Environmental Management	1	0	0	0	0	0,0	1	100,0	1
M.Tech. Forestry	0	0	0	1	1	100,0	0	0,0	1
M.Sc. Entomology	2	0	0	0	0	0,0	2	100,0	2
M.Sc. Food Science	3	0	0	0	0	0,0	3	100,0	3
M.Sc. Agriculture	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Aquaculture	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Agronomy	2	0	0	0	0	0,0	2	100,0	2
M.Sc. Biochemistry	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Soil Science	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Plant Pathology	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Pasture Science	2	0	0	0	2	100,0	0	0,0	2
M.Sc. Veterinary Science	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Environmental Management	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Biodiversity and Conservation Biology	0	2	0	0	1	50,0	1	50,0	2
M.Sc. Forestry	0	0	0	1	1	100,0	0	0,0	1
M.Sc. Molecular and Cell Biology	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Fisheries Science	1	0	0	0	0	0,0	1	100,0	1
M.Com. Agricultural Economics	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Aquatic Breeding (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Agronomy (international)	6	0	0	0	6	100,0	0	0,0	6
M.Sc. Agric. Economics (international)	4	0	0	0	1	25,0	3	75,0	4
M.Sc. Animal Science (international)	2	0	0	0	2	100,0	0	0,0	2
M.Sc. Crop Cultivation (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Plant Quarantine (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Rural Development (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Zoology (International)	1	0	0	0	0	0,0	1	100,0	1
Ph.D. Rural Development (international)	1	0	0	0	0	0,0	1	100,0	1
Ph.D. Agronomy (international)	2	0	0	0	1	50,0	1	50,0	2
Ph.D. Animal Production	1	0	0	0	1	100,0	0	0,0	1
D.Tech.. Chemistry	1	0	0	0	0	0,0	1	100,0	1
Total	272	22	8	14	123	38,9	193	61,1	316

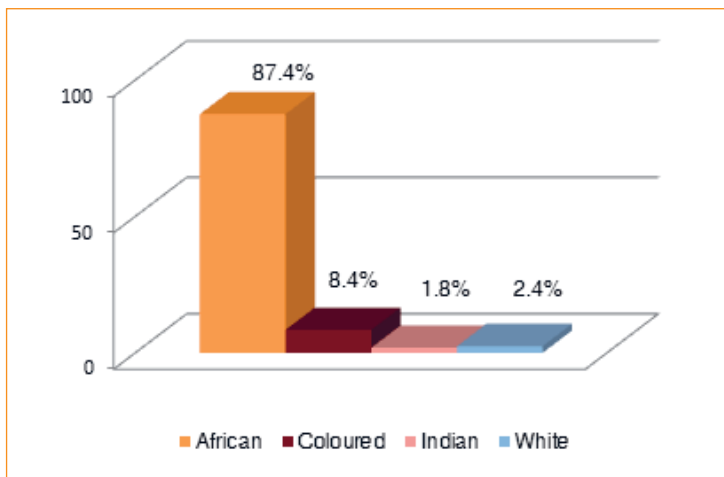
Table 1 indicates that 272 Africans (86,1 %), 22 Coloureds (7,0 %), 14 Whites (4,4%) and 8 Indians (2,5 %) were awarded bursaries to further their studies. The table further shows that in addition to the bursaries for undergraduate and postgraduate studies, bursaries were awarded to 59 high school learners from DAFF Career Awareness Schools.

2.2 Analysis of the 2013 new intake

TABLE 2 Breakdown of new intake of the 2013 DAFF bursary holders [n =167]

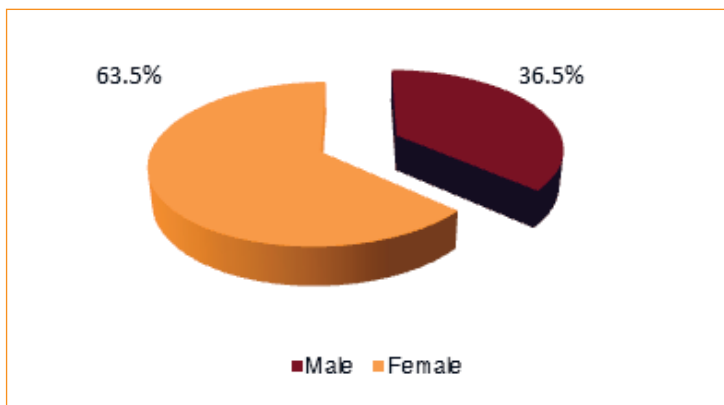
Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
B.V.Sc.	7	1	2	3	4	30,8	9	69,2	13
B.Sc. Bioresource Engineering	6	0	0	0	3	50,0	3	50,0	6
B.Sc. Viticulture and Oenology	3	1	0	0	2	50,0	2	50,0	4
B.Sc. Agronomy	2	0	0	0	0	0,0	2	100,0	2
B.Sc. Soil Science	2	0	0	0	1	50,0	1	50,0	2
B.Sc. Plant Pathology	2	0	0	0	0	0,0	2	100,0	2
B.Sc. Food Science	5	0	0	0	0	0,0	5	100,0	5
B.Sc. Geo-informatics	2	0	1	0	0	0,0	3	100,0	3
B.Sc. Forestry and Wood Science	3	0	0	0	1	33,3	2	66,7	3
B.Sc. Marine Biology	3	2	0	0	0	0,0	5	100,0	5
B.Sc. Oceanography and Marine Biology	0	1	0	0	0	0,0	1	100,0	1
B.Sc. Ichthyology specialising in Aquaculture	1	0	0	1	0	0,0	2	100,0	2
B.Sc. Agricultural Economics	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Plant Sciences	1	0	0	0	0	0,0	1	100,0	1
Nat. Dipl. Forestry	1	0	0	0	1	100,0	0	0,0	1
Nat. Dipl. Oceanography	2	0	0	0	1	50,0	1	50,0	2
Nat. Dipl. Food Technology	3	0	0	0	1	33,3	2	66,7	3
Nat. Dipl. Agriculture	1	0	0	0	0	0,0	1	100,0	1
Diploma in Forestry	9	0	0	0	5	55,6	4	44,4	9
Diploma in Agriculture	21	1	0	0	11	50,0	11	50,0	22
National Senior Certificate	51	7	0	0	28	48,3	30	51,7	58
B.Tech. Oceanography	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Applied Remote Sensing and GIS (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Botany (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Biochemistry (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Environmental Science (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Marine Biology (Hons)	1	0	0	0	0	0,0	1	100,0	1
M. Tech. Environmental Management	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Agriculture	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Agronomy	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Biochemistry	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Biodiversity and Conservation Biology	0	1	0	0	0	0,0	1	100,0	1
M.Sc. Entomology	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Food Science	2	0	0	0	0	0,0	2	100,0	2
M.Sc. Fisheries Science	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Plant Pathology	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Pasture Science	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Soil Science	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Veterinary Science	1	0	0	0	0	0,0	1	100,0	1
M.Com. Agricultural Economics	1	0	0	0	0	0,0	1	100,0	1
D.Tech.. Chemistry	1	0	0	0	0	0,0	1	100,0	1
Ph.D. Agronomy (international)	2	0	0	0	1	50,0	1	50,0	2
Total	146	14	3	4	61	36,5	106	63,5	167

Table 2 shows that 167 new beneficiaries were awarded bursaries for the 2013 academic year. A total of 88 were undergraduates, 21 postgraduates (B.Tech. Hons, M. Tech, M.Sc., D.Tech. and Ph.D.) and 58 were high school learners.



GRAPH 1 Breakdown of new intake of DAFF bursary holders in terms of race for 2013 [n = 167]

In terms of the allocations depicted in Graph 1, Africans are the major beneficiaries with 146 (87,4%), followed by Coloureds with 14 (8,4%), Whites with 4 (2,4%) and Indians with 3 (1,8%).



GRAPH 2 Breakdown of new intake of DAFF bursary holders in terms of gender for 2013 [n = 167]

In terms of gender depicted in Graph 2 above, 63,5% of the beneficiaries are females and 36,5% are males.

2.3 Provinces and municipalities where bursary beneficiaries are coming from

The 2013 DAFF bursary awards were advertised in the national print and electronic media in June 2012 and as a result, candidates were recruited nationally. The tables below indicate the analysis of provinces and municipalities where beneficiaries came from:

TABLE 3 Breakdown of all 2011 bursary holders according to provinces where they come from [n = 268]

Province	Total number
Eastern Cape	64
Free State	14
Gauteng	38
KwaZulu-Natal	65
Limpopo	45
Mpumalanga	26
North West	24
Northern Cape	10
Western Cape	30
Total	316

Table 3 shows that the highest number of beneficiaries (65) came from KwaZulu-Natal while the lowest number (10) came from Northern Cape.

TABLE 4 Breakdown of all 2011 bursary holders according to the municipalities/districts where they come from [n = 268]

Municipality/District	Total	Municipality/District	Total
Aganang	3	Mbashe	2
Albert Luthuli	3	Mbizana	2
Alfred Ndzo	4	Mbombela	2
Amahlathi	1	Mhlontlo	4
Amajuba	1	Middledrift	1
Amathole	3	Midrand	1
Atlantis	1	Mkhondo	1
Bellville	1	Mnquma	3
Bizana	1	Mogalakwena	3
Bojanala	1	Mogale City	6
Boland	1	Molemole	1
Bushbuckridge	7	Moretele	2
Buffalo City	10	Mount Frere	1
Cape Town	11	Msukaligwa	5
Capricorn	6	Msunduzi	20
Cederberg	2	Mthonjaneni	1
Chris Hani	2	Mthatha	1
Dr J.S. Moroka	2	Nama Khoi	1
Dihlabeng	2	Nelspruit	1
Ekurhuleni	12	Newcastle	1
Elundini	1	Nketoana	1
Emalahleni	3	Nkomazi	3
Empangeni	1	Ngaka Modiri Molema	3
eThekwini	9	Nongoma	1
Fetakgomo	2	Ntabankulu	1
Greater Giyani	2	Nyandeni	1
Greater Kokstad	6	Oostenberg	1
Greater Letaba	2	OR Tambo	3
Greater Taung	7	Phokwane	3
Greater Tubatse	1	Polokwane	7
Greater Sekhukhune	3	Port Elizabeth	1
Helderberg	1	Prixley ka Seme	1
Hessequa	2	Qumbu	1
Hibiscus	1	Ramotshere Moiloa	2
Inkwanca	1	Sakhisizwe	1
Intsikayethu	1	Sedibeng	2
Inxuba Yethemba	1	Setsoto	1
Ingquza Hill	3	Stellenbosch	2
Joe Gqabi	1	Sol Plaatje	2
Johannesburg Metro	6	Theewaterskloof	6
John Taolong Gaetsewe	1	Thembisile Hani	1
Kai Garib	7	Thulamela	2
King Sabata Dalidyebo	4	Tshwane	12
Knysna	1	Tsolwana	3
Kokstad	3	Tygerberg	1
KwaSani	1	Ulundi	1
Kuils Rivier	1	uMhlatuze	5
Ladysmith	1	uMgungundlovu	1

TABLE 4 Breakdown of all 2011 bursary holders according to the municipalities/districts where they come from [n = 268] (cont.)

Municipality/District	Total	Municipality/District	Total
Lepelle Nkumpi	4	Umkhanyakude	1
Lukhanje	4	uMshwathi	1
Madibeng	4	Umzimvubu	1
Mahikeng	1	Upington	1
Mafube	1	uThungulu	1
Makhado	2	uThukela	1
Makhuduthamaga	1	Vhembe	7
Maluti-a-Phofung	4	Welkom	1
Mangaung	3	West Rand	1
Matatiele	1	Zululand	1
Total	172	Total	144
Grand total			316

Table 4 shows that the majority (20) of bursary beneficiaries came from Msunduzi, followed by Ekurhuleni and Tshwane with 12 respectively.

3. Bursary counselling services

The Student Counselling Services is the DAFF’s risk management strategy to ensure the success of the implementation of the scheme.

3.1 Core functions of the Bursary Counselling Services

The core functions of the Bursary Counselling Services are as follows:

- Give academic, career, social, personal and psychological support to bursary holders
- Assessment of academic progress of bursary holders through semester tests, tutorials and assignments
- Identifying early warning signs of possible failure among bursary holders and provide mitigating solutions
- Providing bursary holders with the life skills needed to deal with problems before they occur and to enhance students’ personal, social and academic growth
- Provide counselling support to bursary holders in the form of group and individual sessions, telephone calls, letters and e-mails
- Source academic support for bursary holders from institutions of higher learning
- Assist with admission and accommodation for first-year bursary holders in institutions of higher learning
- Secure placement for bursary holders who need experiential training, vacation work, participation in the internship programme or permanent employment.

3.2 Support given to bursary holders during the 2013 academic year

The Bursary Student Counsellor provided continuous student support and counselling for the bursary holders through e-mails, telephone calls and fax. Challenges that bursary holders were facing during the 2013 academic year which the Bursary Student Counsellor handled, included but were not limited to the following:

- personal problems
- residential problems
- academic performance
- health problems
- family problems
- loss of family members
- time management and workload
- difficulty in grasping concepts
- delay in getting text books

3.3 Bursary monitoring meetings

Monitoring and evaluation of academic performance of bursary holders is critical in ensuring the success of the Bursary Scheme. During 2013, physical visits to various institutions where DAFF bursary holders are attending and the NSFAS were conducted. The NSFAS, which administers the transfer of DAFF bursary funds to various institutions, was visited on 14 May 2013. The purpose of the visit was as follows:

- Define communication channels between the DAFF and NSFAS to enhance effective partnership
- Plan the schedule for the payment of claims to institutions
- Review payments processes and procedures for 2013 academic year
- Produce the 2013/14 audited financial statement
- Plan for 2014 academic year

The dates, purposes and outcomes of monitoring visits conducted in all institutions of higher learning and FET colleges where DAFF bursary holders are attending are outlined in Table 5 and 6 below.

TABLE 5 Analysis of bursary monitoring visits conducted in various institutions of higher learning hosting DAFF bursary holders

Date	Institution of learning visited	Purpose	No. of bursary holders attended	Duration of meetings (hours)	Outcome of meetings
07 Feb.	University of Pretoria (Main campus)	Welcome and orientate new bursary holders	17	2	<p>New students were inducted with regard to the following:</p> <ul style="list-style-type: none"> • Strategies to cope with academic, personal, health, stress and relationship problems • Salient points relating to bursary policy and implications of the signed contract • How to access academic support at the university • Benefits of the bursary award <p>Proof of registration of each student was analysed and verified to ensure that it complies with the minimum requirements set for the registered field of study</p> <p>Method of payment of bursary benefits to students was discussed and agreed upon with the management of the universities and sent to NSFAS for processing</p> <p>The fees structure, which includes tuition, books, accommodation, meals and monthly allowances, was discussed and finalised with the students and management of the universities</p> <p>The meetings also helped bursary holders from the same institution to get to know each other and to form study groups</p>
08 Feb.	Tshwane University of Technology	Discuss DAFF's External Bursary Policy and Procedures	5	2	
11 Feb.	University of Pretoria (Onderstepoort campus)	Confirm that the modules registered by students comply with requirements of registered fields of study	19	2	
26 Feb.	University of Cape Town	Finalise the fees breakdown structure and discuss it with the students and the management of the universities before sending it to NSFAS for processing	2	1	
27 Feb.	University of Western Cape		4	1	
27 Feb.	Cape Peninsula University of Technology (Bellville campus)		1	1	
27 Feb.	University of Stellenbosch		20	2	
15 April	University of Fort Hare		13	2	
15 April	Fort Cox College		9	2	
16 April	Rhodes University		5	1	
22 April	University of the Free State (QwaQwa campus)		1	1	
23 April	University of the Free State (Main campus)		8	1	
24-25 April	GADI		35	2	
29 April	Nelson Mandela Metropolitan University	4	1		

TABLE 6 Analysis of the one-on-one bursary monitoring meetings conducted for DAFF bursary holders during the 2013 academic year

Date	Institution of learning visited	Purpose	No. of bursary holders attended	Duration of meetings (hours)	Outcome of meetings
17 April	University of Pretoria (Main campus)	Conduct one-on-one meetings with each student to offer academic and counselling support	17	15—30 minutes per student	<p>The Bursary Student Counsellor offered counselling support to students and addressed their problems, which included but were not limited to the following:</p> <ul style="list-style-type: none"> • personal problems • residential problems • academic performance • health problems • family problems • death of family members • time management and workload • difficulty in grasping concepts • delay in getting text books on time
18 April	University of Pretoria (Onderstepoort campus)	Assess academic progress of each bursary holder	16		
07 May	University of Limpopo	Mobilise academic support within the institutions for struggling students	3		
08 May	University of Venda		3		
10 May	Tshwane University of Technology	Discuss placement opportunities or vacation work, experiential training and permanent employment for completing students	3		
10 May	University of Witwatersrand		3		
13 May	University of Zululand		1		

TABLE 6 Analysis of the one-on-one bursary monitoring meetings conducted for DAFF bursary holders during the 2013 academic year (cont.)

Date	Institution of learning visited	Purpose	No. of bursary holders attended	Duration of meetings (hours)	Outcome of meetings
13 May	Cape Peninsula University of Technology (Cape Town campus)		7		Challenges that students indicated during the one-on-one monitoring meeting were addressed during the sessions Study groups were formed among students doing similar modules to enhance performanc.
14 May	University of KwaZulu-Natal (Westville campus)		3		
14 May	Durban University of Technology		1		
15 May	University of KwaZulu-Natal (Howard campus)		13		
15 May	University of Western Cape		3		
15 May	University of Cape Town		2		
16 May	University of KwaZulu-Natal (Pietermaritzburg campus)		22		
16 May	University of Stellenbosch		18		
17 May	Elsenburg College		3		

3.4 Sourcing of academic support for bursary holders

The Bursary Student Counsellor collaborated with faculties, lecturers and student counselling and academic support structures within various institutions to help bursary holders cope with difficulties in their studies. Based on the analysis of academic performance compiled during monitoring visits, 55 students were identified as potential high-risk failures and academic support in the form of mentorships and extra tutoring was sourced to improve their academic success. Table 7 below shows the analysis of the 55 students:

TABLE 7 Analysis of bursary holders who received academic support [n = 55]

Name of institution	No. of bursary holders attended	Field of study	Level of study	Modules attended	Impact of the mentorship and extra tutoring programme	
					No. passed end-of-year exams	No. failed end-of-year exams
University of KwaZulu-Natal	5	B.Sc. Bioresource Engineering	1 st year	Mathematics Physical Science Engineering Design Engineering Materials Computer 102 Chemistry	2	3
	12		2 nd year	Structures Thermodynamics Surveying Engineering Design Methods	9	3
	6		3 rd year	Computer Programming Mathematics	6	0
	4		4 th year	Design Project	4	0
University of Pretoria	8	B.V.Sc.	1 st year	Chemistry Physics and Biology Mathematics	4	4
University of Stellenbosch	4	B.Sc. Viticulture and Oenology	1 st year	Oenology Mathematics Chemistry	4	0
	2	B.Sc. Forestry and Wood Science	1 st year	Biology Physics Forest Science	2	0
	1		1 st year	Mathematics Biometry	1	0
Cape Peninsula University of Technology	6	Nat. Dipl. Oceanography	2 nd year	Calculations and Statistics Electronics Statistics Chemical Oceanography	5	1
Fort Cox College of Agriculture	7	Diploma in Forestry	1 st year	Applied Mathematics Basic Scientific Concept	6	1
Total					43	12

Table 7 shows that 55 bursary holders benefited from academic support sourced with the University of KwaZulu-Natal, University of Pretoria, University of Stellenbosch, Cape Peninsula University of Technology and Fort Cox College of Agriculture. Extra classes were conducted between 10:00 and 16:00 from Monday to Thursday during free periods for students at the University of KwaZulu-Natal. At the University of Pretoria extra academic support was provided on Wednesdays only and students were further registered for summer vacation classes which were conducted between 16:00 and 17:00 on Mondays and Wednesdays. Extra classes were conducted between 10:00 and 18:00 from Tuesdays to Thursdays at the University of Stellenbosch while extra tutoring for students at the Cape Peninsula University of Technology were conducted on Tuesdays and at Fort Cox College of Agriculture extra tutoring was conducted on Mondays and Wednesdays between 17:30 and 18:30. Out of the 55 bursary holders who attended extra tutoring classes, 43 managed to pass their end-of-year examinations, 10 failed and 2 dropped out from studies despite extra tutoring and mentoring.

3.5 Support and interventions made by the Technical Tutor at the University of KwaZulu-Natal

During November 2011, DAFF signed the Service Level Agreement with the University of KwaZulu-Natal (UKZN) for appointment of a technical tutor to provide technical and academic support to the Bioresource Engineering students sponsored by DAFF. The rationale behind the appointment of the technical tutor is to increase the throughput of students studying Bioresource Engineering at UKZN. The responsibilities of the technical tutor are outlined as follows in the agreement:

- Provide supplemental technical tutoring and instruction for all students in Bioresource Engineering modules, i.e. in addition to normal lectures and tutorials offered by lecturers for modules. Supplemental tutoring and instruction will be coordinated with interventions supported by the Academic Support and Development Programme (ASDP) of the Faculty of Engineering at UKZN.
- Provide personal support and mentoring to the bursary students supported by the DAFF.
- Support the orientation and integration of first year bursary students to university studies in a cosmopolitan environment.
- Facilitate the placement of the bursary students for vacation work training and provide logistical support and arrangements for the bursary students to attend, for example, the compulsory Engineering Practice Workshop and Workshop Course.
- Work closely and liaise with the ASDP to quickly identify teaching and learning problems and to develop and implement remedial strategies as required.
- Assist the DAFF in marketing Bioresource Engineering to prospective students and in recruiting suitable students to study Bioresource Engineering at UKZN.

Activities implemented by the tutor during the 2013 academic year included but were not limited to the following:

Profiling of individual DAFF bursary holder

The tutor conducted an orientation and induction programme for DAFF bursary holders during February 2013. During the orientation, comprehensive profiles of all bursary holders were developed that included *inter alia* the demographic background, number of registered modules, needs of individual students, as well as their personalities.

Assist bursary holders to secure placement for residence

The students at UKZN (Howard College) experienced problems with accommodation during February 2013. The technical tutor was at the forefront of securing meetings with Housing Management as well as private accommodation to ensure that the students are accommodated in proper residences.

Monitoring of individual personal and academic progress

A spreadsheet that tabulated all modules registered by the individual bursary holders was developed by the technical tutor wherein class tests, assignments, tutorials, predicates and final exam marks were recorded. This spreadsheet served as the basis for determining remedial actions that were to be directed to the individual student as per individual challenges and needs.

Remedial plans and performance tracking systems

The students' academic progress was monitored and follow-up on remedial plans was done on an on-going basis. The technical tutor developed a very reliable and significant academic performance tracking system that is very effective in detecting the performance of a student and possible challenges facing the student at an early stage in order to provide mitigation measures. Bursary holders who were emotionally and psychologically challenged were referred to relevant professionals like a student psychologist for further help and those with academic challenges to relevant lectures. This support was offered throughout the 2013 academic year and helped to improve the performance of bursary holders.

Examination preparation workshops

Examination preparation workshops were conducted by the tutor for all bursary holders at various levels of study, i.e., first to fourth year. Extensive revision was done and students were also provided with previous examination papers and assisted on how to model the answers in response to variety of questions. This approach helped to increase the pass rate in Bioresource Engineering from 77,3% (17 out of 22) in 2011 to 84% (21 out of 27) in 2013.

TABLE 8 Analysis of bursary holders who received vacation work placement from UKZN [n = 18]

Name of company	Level of study				No. of students supported
	1	2	3	4	
Department of Agriculture, Limpopo	0	2	0	1	3
School of Bio-resources, UKZN	0	0	1	2	3
Falcon Engineering, Pietermaritzburg	0	2	0	0	2
Irrigation and Drainage, Pietermaritzburg	0	2	0	0	2
Ground Truth, Durban	0	1	0	0	1
Illovo Sugar, Durban	0	1	2	1	4
PG Bison	0	1	0	0	1
Department of Agriculture, Limpopo	0	1	1	0	2
Total	0	10	4	4	18

Table 8 shows that 18 B.Sc. Bioresource Engineering bursary holders at UKZN secured placement for vacation work with different companies through facilitation by the technical tutor. The table further shows that the highest number of bursary holders who received vacation work placements were 2nd year students with ten, followed by 3rd and 4th years with four students respectively.

4. Performance of bursary holders for 2013

4.1 Analysis of performance of all bursary holders

The academic performance of bursary holders is analysed in order to measure the return on investment as well as the overall success of the scheme. The performance of bursary holders is analysed on the basis of individual student's results as received from the academic institutions. A report indicating whether a learner qualifies (passed) or does not qualify (failed) to proceed to the next level of study is used as a measurement for the learner's performance

TABLE 9 Breakdown of performance of all 2013 bursary holders per field of study [n = 311]

Field of study	No. passed	% passed	No. failed	% failed	Total
B.V.Sc.	23	82,1	5	17,9	28
B.Sc. Viticulture and Oenology	9	81,8	2	18,2	11
B. Agric. Viticulture	3	100,0	0	0,0	3
B.Sc. Bioresource Engineering	21	84,0	4	16,0	25
B.Sc. Agric. Economics	5	100,0	0	0,0	5
B.Sc. Food Science	7	70,0	3	30,0	10
B.Sc. Genetics	5	100,0	0	0,0	5
B.Sc. Geo-informatics	3	100,0	0	0,0	3
B.Sc. Plant Pathology	5	100,0	0	0,0	5
B.Sc. Soil Science	8	100,0	0	0,0	8
B.Sc. Agronomy	5	100,0	0	0,0	5
B.Sc. Plant Sciences	1	100,0	0	0,0	1
B.Sc. Pasture Science	5	100,0	0	0,0	5
B.Sc. Forestry Science	3	100,0	0	0,0	3
B.Sc. Forestry and Wood Science	4	100,0	0	0,0	4
B.Sc. Ichthyology specialising in Aquaculture	4	100,0	0	0,0	4
B.Sc. Marine Biology	5	83,3	1	16,7	6
B.Sc. Oceanography and Marine Biology	1	100,0	0	0,0	1

TABLE 9 Breakdown of performance of all 2013 bursary holders per field of study [n = 311] (cont.)

Field of study	No. passed	% passed	No. failed	% failed	Total
Nat. Dipl. Forestry	5	100,0	0	0,0	5
Nat. Dipl. Food Technology	8	100,0	0	0,0	8
Nat. Dipl. Oceanography	5	83,3	1	16,7	6
Nat. Dipl. Agriculture	1	100,0	0	0,0	1
Diploma in Forestry	8	88,9	1	11,1	9
Diploma in Agriculture	37	100,0	0	0,0	37
National Senior Certificate	59	100,0	0	0,0	59
B.Tech. Oceanography	0	0,0	1	100,0	1
B.Sc. Applied Remote Sensing and GIS (Hons)	1	100,0	0	0,0	1
B.Sc. Environmental Science (Hons)	1	100,0	0	0,0	1
B.Sc. Biochemistry (Hons)	1	100,0	0	0,0	1
B.Sc. Botany (Hons)	1	100,0	0	0,0	1
B.Sc. Marine Biology (Hons)	1	100,0	0	0,0	1
M.Tech. Animal Production	3	100,0	0	0,0	3
M.Tech. Forestry	1	100,0	0	0,0	1
M.Sc. Entomology	1	100,0	0	0,0	1
M.Sc. Food Science	3	100,0	0	0,0	3
M.Sc. Agriculture	1	100,0	0	0,0	1
M.Sc. Aquaculture	1	100,0	0	0,0	1
M.Sc. Agronomy	2	100,0	0	0,0	2
M.Sc. Biochemistry	1	100,0	0	0,0	1
M.Sc. Entomology	1	100,0	0	0,0	1
M.Sc. Soil Science	1	100,0	0	0,0	1
M.Sc. Plant Pathology	1	100,0	0	0,0	1
M.Sc. Pasture Science	2	100,0	0	0,0	2
M.Sc. Veterinary Science	1	100,0	0	0,0	1
M.Sc. Environmental Management	1	100,0	0	0,0	1
M.Sc. Biodiversity and Conservation Biology	2	100,0	0	0,0	2
M.Sc. Forestry	1	100,0	0	0,0	1
M.Sc. Molecular and Cell Biology	1	100,0	0	0,0	1
M.Sc. Fisheries Science	1	100,0	0	0,0	1
M.Com. Agricultural Economics	1	100,0	0	0,0	1
M.Sc. Aquatic Breeding (international)	1	100,0	0	0,0	1
M.Sc. Agronomy (international)	6	100,0	0	0,0	6
M.Sc. Agric. Economics (international)	4	100,0	0	0,0	4
M.Sc. Animal Science (international)	2	100,0	0	0,0	2
M.Sc. Crop Cultivation (international)	1	100,0	0	0,0	1
M.Sc. Plant Quarantine (international)	1	100,0	0	0,0	1
M.Sc. Rural Development (international)	1	100,0	0	0,0	1
M.Sc. Zoology (international)	1	100,0	0	0,0	1
Ph.D. Rural Development (international)	1	100,0	0	0,0	1
Ph.D. Agronomy (international)	2	100,0	0	0,0	2
Ph.D. Animal Production	1	100,0	0	0,0	1
D.Tech. Chemistry	1	100,0	0	0,0	1
Total	293	94,2	18	5,8	311

Table 9 indicates that out of 316 bursary holders for 2013, 311 wrote their end-of-year examinations. Of this total, 293 passed their end-of-year/mid-year examinations, while 18 failed.

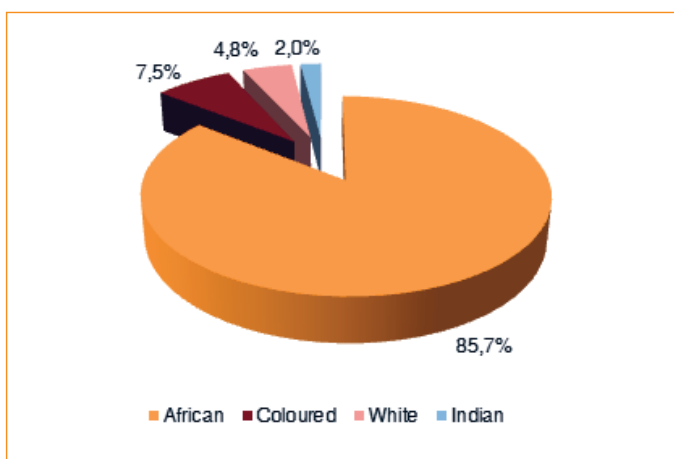
TABLE 10 Analysis of bursary holders who passed their 2013 end-of-year examinations per race and gender [n = 293]

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
B.V.Sc.	9	3	5	6	5	21,7	18	78,3	23
B.Sc. Viticulture and Oenology	8	1	0	0	4	44,4	5	55,6	9
B. Agric. Viticulture	1	0	0	2	1	33,3	2	66,7	3
B.Sc. Bioresource Engineering	20	0	0	1	11	52,4	10	47,6	21
B.Sc. Agric. Economics	5	0	0	0	2	40,0	3	60,0	5
B.Sc. Food Science	7	0	0	0	2	28,6	5	71,4	7
B.Sc. Genetics	5	0	0	0	3	60,0	2	40,0	5
B.Sc. Geo-informatics	2	0	0	1	0	0,0	3	100,0	3
B.Sc. Plant Pathology	4	0	1	0	1	20,0	4	80,0	5
B.Sc. Soil Science	8	0	0	0	4	50,0	4	50,0	8
B.Sc. Agronomy	5	0	0	0	1	20,0	4	80,0	5
B.Sc. Plant Science	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Pasture Science	5	0	0	0	2	40,0	3	60,0	5
B.Sc. Forestry Science	3	0	0	0	2	66,7	1	33,3	3
B.Sc. Forestry and Wood Science	4	0	0	0	1	25,0	3	75,0	4
B.Sc. Ichthyology specialising in Aquaculture	2	0	0	2	2	50,0	2	50,0	4
B.Sc. Marine Biology	2	3	0	0	0	0,0	5	100,0	5
B.Sc. Oceanography and Marine Biology	0	1	0	0	0	0,0	1	100,0	1
Nat. Dipl. Forestry	5	0	0	0	2	40,0	3	60,0	5
Nat. Dipl. Food Technology	7	1	0	0	3	37,5	5	62,5	8
Nat. Dipl. Oceanography	3	2	0	0	2	40,0	3	60,0	5
Nat. Dipl. Agriculture	1	0	0	0	0	0,0	1	100,0	1
Diploma in Forestry	8	0	0	0	4	50,0	4	50,0	8
Diploma in Agriculture	35	2	0	0	15	40,5	22	59,5	37
National Senior Certificate	52	7	0	0	29	49,2	30	50,8	59
B.Sc. Applied Remote Sensing and GIS (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Environmental Science (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Biochemistry (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Botany (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Marine Biology (Hons)	1	0	0	0	0	0,0	1	100,0	1
M.Tech. Animal Production	3	0	0	0	1	33,3	2	66,7	3
M.Tech. Forestry	0	0	0	1	1	100,0	0	0,0	1
M.Sc. Entomology	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Food Science	3	0	0	0	0	0,0	3	100,0	3
M.Sc. Agriculture	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Aquaculture	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Agronomy	2	0	0	0	0	0,0	2	100,0	2
M.Sc. Biochemistry	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Entomology	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Soil Science	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Plant Pathology	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Pasture Science	2	0	0	0	2	100,0	0	0,0	2
M.Sc. Veterinary Science	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Environmental Management	1	0	0	0	1	100,0	0	0,0	1

TABLE 10 Analysis of bursary holders who passed their 2013 end-of-year examinations per race and gender [n = 293] (cont.)

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
M.Sc. Biodiversity and Conservation Biology	0	2	0	0	1	50,0	1	50,0	2
M.Sc. Forestry	0	0	0	1	1	100,0	0	0,0	1
M.Sc. Molecular and Cell Biology	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Fisheries Science	1	0	0	0	0	0,0	1	100,0	1
M.Com. Agricultural Economics	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Aquatic Breeding (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Agronomy (international)	6	0	0	0	6	100,0	0	0,0	6
M.Sc. Agric. Economics (international)	4	0	0	0	1	25,0	3	75,0	4
M.Sc. Animal Science (international)	2	0	0	0	2	100,0	0	0,0	2
M.Sc. Crop Cultivation (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Plant Quarantine (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Rural Development (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Zoology (international)	1	0	0	0	0	0,0	1	100,0	1
Ph.D. Rural Development (international)	1	0	0	0	0	0,0	1	100,0	1
Ph.D. Agronomy (international)	2	0	0	0	1	50,0	1	50,0	2
Ph.D. Animal Production	1	0	0	0	1	100,0	0	0,0	1
D.Tech.. Chemistry	1	0	0	0	0	0,0	1	100,0	1
Total	251	22	6	14	117	39,9	176	60,1	293

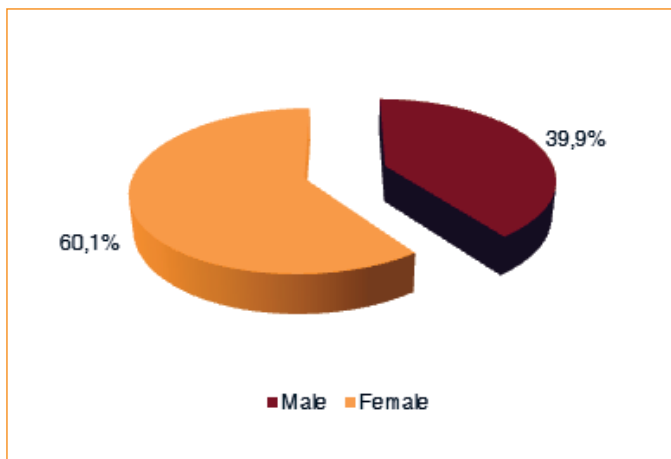
Table 10 provides the racial breakdown of bursary beneficiaries who passed their 2013 end-of-year examinations per field of study. The data reflected in the table indicate that 251 Africans, 22 coloureds, six (6) Indians, and 14 whites passed their final examinations. The table further shows that in total, 293 bursary beneficiaries passed their final examinations, of which 176 are females and 117 are males.



GRAPH 3 Breakdown of all bursary holders who passed their 2013 end-of-year examinations in terms of race [n = 293]

In terms of race, Graph 3 above shows that 85,7% of the beneficiaries who passed were Africans. The other racial groups make up the remaining 14,3%.

Graph 4 on the next page demonstrates that 60,1% of the beneficiaries who passed are females and 39,9% are males.



GRAPH 4 Breakdown of all bursary holders who passed their 2013 end-of-year examinations in terms of gender [n = 293]

TABLE 11 Analysis of bursary holders who failed their 2013 end-of-year examinations in terms of race and gender [n = 18]

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
B.V.Sc.	4	0	1	0	2	40,0	3	60,0	5
B.Sc. Viticulture and Oenology	2	0	0	0	0	0,0	2	100,0	2
B.Sc. Bioresource Engineering	3	0	1	0	2	50,0	2	50,0	4
B.Sc. Food Science	3	0	0	0	0	0,0	3	100,0	3
B.Sc. Marine Biology	1	0	0	0	0	0,0	1	100,0	1
Nat. Dipl. Oceanography	1	0	0	0	0	0,0	1	100,0	1
Diploma in Forestry	1	0	0	0	1	100,0	0	0,0	1
B Tech. Oceanography	1	0	0	0	0	0,0	1	100,0	1
Total	16	0	2	0	5	27,8	13	72,2	18

Table 11 shows that 18 bursary beneficiaries failed their end-of-year examinations. Of these, 16 are Africans and 2 are Indians. The highest failure rate was recorded in B.V.Sc. with five, followed by B.Sc. Bioresource Engineering with four and then by B.Sc. Food Science with three.

TABLE 12 Analysis of the 2013 performance of all bursary holders per institution of higher learning [n = 311]

Field of study	No. passed	% passed	No. failed	% failed	Total
University of Pretoria	38	84,4	7	15,6	45
University of Stellenbosch	23	92,0	2	8,0	25
University of KwaZulu-Natal	34	89,5	4	10,5	38
University of Cape Town	2	100,0	0	0,0	2
University of Free State	8	100,0	0	0,0	8
University of Fort Hare	13	100,0	0	0,0	13
University of Limpopo	5	100,0	0	0,0	5
University of Zululand	1	100,0	0	0,0	1
University of Venda	2	66,7	1	33,3	3
University of the Witwatersrand	4	100,0	0	0,0	4
University of the Western Cape	5	100,0	0	0,0	5
University of South Africa	1	100,0	0	0,0	1
China Agricultural University	16	100,0	0	0,0	16
Nanjing University	1	100,0	0	0,0	1
Jilling Agricultural University	3	100,0	0	0,0	3
Rhodes University	6	100,0	0	0,0	6
Nelson Mandela Metropolitan University	6	100,0	0	0,0	6
Tshwane University of Technology	8	100,0	0	0,0	8
Cape Peninsula University of Technology	8	90,0	2	10,0	10

TABLE 12 Analysis of the 2013 performance of all bursary holders per institution of higher learning [n = 311] (cont.)

Field of study	No. passed	% passed	No. failed	% failed	Total
Durban University of Technology	1	50,0	1	50,0	2
Eisenburg College	3	100,0	0	0,0	3
Fort Cox College	8	88,9	1	11,1	9
Grootfontein Agricultural Development Institute	38	100,0	0	0,0	38
Byletts High School	1	100,0	0	0,0	1
Breda Combined School	2	100,0	0	0,0	2
De Rust Futura Akademie	6	100,0	0	0,0	6
Diwiti High School	6	100,0	0	0,0	6
Glen Edward Secondary School	6	100,0	0	0,0	6
Inkomazi Senior Secondary School	2	100,0	0	0,0	2
Kgagatlou Secondary School	2	100,0	0	0,0	2
Kuschke Agricultural High School	2	100,0	0	0,0	2
Leshata High School	2	100,0	0	0,0	2
Mampoi High School	2	100,0	0	0,0	2
Masibumbane High School	2	100,0	0	0,0	2
Motsweding High School	2	100,0	0	0,0	2
Ndaliso Senior Secondary School	2	100,0	0	0,0	2
Oranjezicht Hoërskool	7	100,0	0	0,0	7
Phandulwazi Agricultural High School	2	100,0	0	0,0	2
Schaumburg Combine Shool	6	100,0	0	0,0	6
Sophumelela High School	2	100,0	0	0,0	2
Umfundlana Combined Shool	5	100,0	0	0,0	5
Total	293	94,2	18	8,8	311

Table 12 shows that 293 bursary holders passed their end-of-year examinations and 18 failed. The highest failure rate was recorded at the University of Pretoria with seven (7), followed by the University of KwaZulu-Natal with four (4), followed by University of Stellenbosch and Cape Peninsula University of Technology with two (2), University of Venda, Durban University of Technology and Fort Cox College with one (1) each.

4.2 Analysis of discontinuation of studies for 2013 bursary holders

Despite the comprehensive academic support given to bursary holders in 2013, five (5) students discontinued their studies as shown in the table below.

TABLE 13 Analysis of exclusion and discontinuation of studies by bursary holders for the 2013 academic year [n = 5]

Field of study	No. terminated owing to ill-health	No. terminated owing to poor academic performance	No. terminated owing to exclusion	Total
B.V.Sc.	1	0	0	1
B.Sc. Bioresource Engineering	0	1	1	2
B.Sc. Agric. Economics	0	1	0	1
M.Tech. Environmental Management	0	1	0	1
Total	1	3	1	5

Table 13 shows that one (1) B.Sc. Bioresource Engineering, one (1) B.Sc. Agric. Economics at the University of KwaZulu-Natal and one (1) M. Tech. at Cape Peninsula University of Technology bursary holders terminated their studies in the first semester owing to personal challenges that made them unable to cope with their studies. One (1) B.V.Sc. student at the University of Pretoria discontinued studies owing to critical health problems. The table further shows that one (1) B.Sc. Bioresource Engineering student at the University of KwaZulu-Natal was excluded from the institution owing to poor academic performance.

5 Analysis of bursary holders who completed their studies at tertiary level in 2013

The major success indicator of the External Bursary Scheme is the number of bursary holders who successfully completed their studies and secured relevant employment. During the 2013 academic year, 71 bursary holders successfully completed their studies. The analysis of those who completed is given below.

TABLE 14 Analysis of bursary holders who completed their studies per field of study, race and gender in 2013 [n = 71]

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
B.V.Sc.	1	2	3	0	0	0,0	6	100,0	6
B.Sc. Viticulture and Oenology	1	0	0	0	0	0,0	1	100,0	1
B. Agric Viticulture	1	0	0	1	0	0,0	1	50,0	2
B.Sc. Bioresource Engineering	4	0	0	0	2	50,0	0	0,0	4
B.Sc. Agric, Economics	2	0	0	0	1	50,0	1	50,0	2
B.Sc. Food Science	3	0	0	0	2	66,7	1	33,3	3
B.Sc. Genetics	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Geo-informatics	2	0	0	0	0	0,0	2	100,0	2
B.Sc. Plant Pathology	0	0	1	0	0	0,0	1	100,0	1
B.Sc. Soil Science	4	0	0	0	2	50,0	2	50,0	4
B.Sc. Agronomy	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Pasture Science	2	0	0	0	2	100,0	0	0,0	2
B.Sc. Ichthyology specialising in Aquaculture	0	0	0	2	1	50,0	1	50,0	2
B.Sc. Marine Biology	0	3	0	0	0	0,0	3	100,0	3
B.Sc. Oceanography and Marine Biology	0	1	0	0	0	0,0	1	100,0	1
Nat. Dipl. Forestry	2	0	0	0	1	50,0	1	50,0	2
Nat. Dipl. Food Technology	3	1	0	0	2	50,0	2	50,0	4
Diploma in Agriculture	10	2	0	0	3	25,0	9	75,0	12
B.Sc. Applied Remote Sensing and GIS (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Environmental Science (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Biochemistry (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Botany (Hons)	1	0	0	0	1	100,0	0	0,0	1
B.Sc. Marine Biology (Hons)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Aquaculture	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Pasture Science	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Biodiversity and Conservation Biology	0	1	0	0	1	100,0	0	0,0	1
M.Sc. Forestry	0	0	0	1	1	100,0	0	0,0	1
M.Sc. Agronomy (international)	5	0	0	0	5	100,0	0	0,0	5
M.Sc. Rural Development (international)	4	0	0	0	1	25,0	2	50,0	4
Total	53	9	4	4	26	36,6	41	57,7	71

Table 14 indicates that 71 bursary beneficiaries, consisting of postgraduate and undergraduate students, successfully completed their studies in 2013. In terms of racial breakdown, 54 of the beneficiaries were Africans, nine (9) were Coloureds, four (4) were Indians and four (4) were whites respectively. In terms of gender, 26 males (36,6%) and 41 females (57,7%) completed their studies. The highest number of completion was recorded in Masters with 13, followed by Diploma in Agriculture with 12, followed by B.V.Sc. with six (6), followed by Honours with five, B.Sc. Bioresource Engineering, B.Sc. Soil Science and the Nat. Dipl. in Food Technology with four beneficiaries each.

TABLE 15 Analysis of the employment status of bursary holders who completed their studies per field of study, race and gender as at 31/03/2014 [n = 71]

Field of study	Race						Gender			Total	Current status			No. furthering studies (postgraduate)
	African		Coloured	Indian	White	Male		Female	No. employed		No. unemployed	Company/organisation		
	No.					No.	No.						No.	
B.V.Sc.	1	2	0	3	0	0	0	6	0	0	Department of Agriculture, Forestry and Fisheries (6)	-		
B.Sc. Bioresource Engineering	4	0	0	0	0	2	2	4	0	0	Department of Agriculture, Forestry and Fisheries (4)	-		
B.Sc. Agric. Economics	2	0	0	0	0	1	1	2	0	0	DAFF Internship Programme	-		
B.Sc. Viticulture and Oenology	1	0	0	0	0	0	1	1	0	0	Distell Stellenbosch	-		
B Agric. Viticulture	1	0	0	0	1	1	1	2	0	0	DAFF Internship Programme, Marais Vrugte Breërivier Worcester	-		
B.Sc. Food Science	3	0	0	0	0	2	1	3	0	0	Orange Grove Dairy Durban, Tiger Brands Johannesburg	1		
B.Sc. Pasture Science	2	0	0	0	0	2	0	2	0	0	DAFF Internship Programme (2)	-		
B.Sc. Agronomy	1	0	0	0	0	0	1	1	0	0	DAFF Internship Programme	-		
B.Sc. Soil Science	4	0	0	0	0	2	2	4	0	0	DAFF Internship Programme (2)	2		
B.Sc. Plant Pathology	0	0	0	1	0	0	1	1	0	0	-	1		
B.Sc. Genetics	1	0	0	0	0	0	1	1	0	0	NRF Internship Programme	-		
B.Sc. Geo-informatics	2	0	0	0	0	0	2	2	0	0	-	2		
B.Sc. Oceanography and Marine Biology	0	1	0	0	0	0	1	1	0	0	-	1		
B.Sc. Ichthyology specialising in Aquaculture	0	0	0	0	2	1	1	2	0	0	-	2		
B.Sc. Marine Biology	0	3	0	0	0	0	3	3	0	0	-	3		
Nat. Dipl. Food Technology	3	1	0	0	0	2	2	4	0	0	Aspen Nutritionals, Tate and Lyle Johannesburg	2		
Nat. Dipl. Forestry	2	0	0	0	0	1	1	2	1	0	DAFF Internship Programme	1		
Diploma in Agriculture	10	2	0	0	0	3	9	12	0	12	-	-		
B.Sc. Marine Biology (Hons)	1	0	0	0	0	0	1	1	0	0	-	1		
B.Sc. Botany (Hons)	1	0	0	0	0	1	0	1	0	0	-	1		
B.Sc. Environmental Science (Hons)	1	0	0	0	0	0	1	1	0	0	-	1		
B.Sc. Biochemistry (Hons)	1	0	0	0	0	0	1	1	0	0	-	1		
B.Sc. Applied Remote Sensing and GIS (Hons)	1	0	0	0	0	0	1	1	0	1	-	-		

TABLE 15 Analysis of the employment status of bursary holders who completed their studies per field of study, race and gender as at 31/03/2014 [n = 71] (cont.)

Field of study	Race				Gender			Total	Current status			No. furthering studies (postgraduate)	
	African		Coloured	Indian	White	Male			Female	No. employed	No. unem- ployed		Company/organisation
	No.					No.	No.						
M.Sc. Biodiversity and Conservation	0	1	0	0	0	1	0	0	1	0	DAFF Internship Programme	-	
M.Sc. Forestry	0	0	0	1	1	1	0	0	1	0	University of Stellenbosch	-	
M.Sc. Aquaculture	1	0	0	0	0	0	1	0	1	0	DAFF Internship Programme	-	
M.Sc. Pasture Science	1	0	0	0	0	1	0	0	0	0	-	1	
M.Sc. Agronomy (international)	5	0	0	0	0	4	1	0	4	1	Department of Agriculture Limpopo, Department of Agriculture KwaZu- lu-Natal, Department of Agriculture, Forestry and Fisheries (2)	-	
M.Sc. Rural Development (inter-national)	4	0	0	0	0	1	3	0	3	0	Department of Agriculture, Forestry and Fisheries (3)	1	
Total	53	10	4	4	4	26	45	71	36	14	-	21	

Table 15 indicates the employment status of 71 2013 bursary holders who completed their studies as at 31 March 2014. The table shows that 36 out of 71 bursary holders who completed their studies at the end of the 2013 academic year secured employment, 14 could not secure employment while 21 furthered their studies (postgraduate).

6. Analysis of level of study of the 2013 bursary holders

The following table shows the analysis of level of study of bursary holders against the total duration of the course.

TABLE 16 Analysis of the level of study of the 2013 bursary holders [n = 316]

Field of study	Year of study							Duration
	1	2	3	4	5	6	Total	
B.V.Sc.	8	7	3	0	5	6	29	6
B.Sc. Viticulture and Oenology	4	1	4	2	0	0	11	4
B. Agric. Viticulture	0	0	3	0	0	0	3	3
B.Sc. Bioresource Engineering	5	12	5	5	0	0	27	4
B.Sc. Agric Economics	1	0	1	4	0	0	6	4
B.Sc. Food Science	5	1	2	2	0	0	10	4
B.Sc. Genetics	1	3	1	0	0	0	5	4
B.Sc. Geo-informatics	1	0	2	0	0	0	3	4
B.Sc. Plant Pathology	2	2	1	0	0	0	5	4
B.Sc. Soil Science	1	0	1	6	0	0	8	4
B.Sc. Agronomy	0	3	2	0	0	0	5	4
B.Sc. Plant Sciences	1	0	0	0	0	0	1	4
B.Sc. Pasture Science	0	1	2	2	0	0	5	4
B.Sc. Forestry Science	0	0	3	0	0	0	3	4
B.Sc. Forestry and Wood Science	2	1	1	0	0	0	4	4
B.Sc. Marine Biology	3	3	0	0	0	0	6	4
B.Sc. Oceanography and Marine Biology	0	0	1	0	0	0	1	4
B.Sc. Ichthyology specialising in Aquaculture	1	1	0	2	0	0	4	4
Nat. Dipl. Forestry	0	2	3	0	0	0	5	3
Nat. Dipl. Food Technology	1	4	3	0	0	0	8	3
Nat. Dipl. Oceanography	0	6	0	0	0	0	6	3
Nat. Dipl. Agriculture	1	0	0	0	0	0	1	3
Diploma in Forestry	7	2	0	0	0	0	9	3
Diploma in Agriculture	7	11	19	0	0	0	37	3
National Senior Certificate	29	30	0	0	0	0	59	1
B.Tech. Oceanography	1	0	0	0	0	0	1	1
B.Sc. Applied Remote Sensing and GIS (Hons)	1	0	0	0	0	0	1	1
B.Sc. Environmental Science (Hons)	1	0	0	0	0	0	1	1
B.Sc. Biochemistry (Hons)	1	0	0	0	0	0	1	1
B.Sc. Botany (Hons)	1	0	0	0	0	0	1	1
B.Sc. Marine Biology (Hons)	1	0	0	0	0	0	1	1
M.Tech. Animal Production	0	3	0	0	0	0	3	2
M.Tech. Environmental Management	1	0	0	0	0	0	1	2
M.Tech. Forestry	0	1	0	0	0	0	1	2
M.Sc. Entomology	1	1	0	0	0	0	2	2
M.Sc. Food Science	1	2	0	0	0	0	3	2
M.Sc. Agriculture	1	0	0	0	0	0	1	2
M.Sc. Aquaculture	0	1	0	0	0	0	1	2
M.Sc. Agronomy	1	1	0	0	0	0	2	2
M.Sc. Biochemistry	1	0	0	0	0	0	1	2
M.Sc. Soil Science	1	0	0	0	0	0	1	2
M.Sc. Plant Pathology	1	0	0	0	0	0	1	2
M.Sc. Pasture Science	0	2	0	0	0	0	2	2
M.Sc. Veterinary Science	0	1	0	0	0	0	1	2

TABLE 16 Analysis of the level of study of the 2013 bursary holders [n = 316] (cont.)

Field of study	Year of study							Duration
	1	2	3	4	5	6	Total	
M.Sc. Environmental Management	0	1	0	0	0	0	1	2
M.Sc. Biodiversity and Conservation Biology	0	2	0	0	0	0	2	2
M.Sc. Forestry	0	1	0	0	0	0	1	2
M.Sc. Molecular and Cell Biology	0	1	0	0	0	0	1	2
M.Sc. Fisheries Science	1	0	0	0	0	0	1	2
M.Com. Agricultural Economics	1	0	0	0	0	0	1	2
M.Sc. Aquatic Breeding (international)	0	1	0	0	0	0	1	2
M.Sc. Agronomy (international)	1	5	0	0	0	0	6	2
M.Sc. Agric. Economics (international)	0	4	0	0	0	0	4	2
M.Sc. Animal Science (international)	2	0	0	0	0	0	2	2
M.Sc. Crop Cultivation (international)	1	0	0	0	0	0	1	2
M.Sc. Plant Quarantine (international)	1	0	0	0	0	0	1	2
M.Sc. Rural Development (international)	1	0	0	0	0	0	1	2
M.Sc. Zoology (international)	1	0	0	0	0	0	1	2
Ph.D. Rural Development (international)	1	0	0	0	0	0	1	3
Ph.D. Agronomy (international)	0	2	0	0	0	0	2	3
Ph.D. Animal Production	0	0	1	0	0	0	1	3
D.Tech.. Chemistry	0	1	0	0	0	0	1	3
Total	104	120	58	23	5	6	316	

Table 16 shows that 104 bursary beneficiaries were registered at first-year level, 120 at second-year level, 59 at third-year level and 23 at fourth-year level. The table further shows that five beneficiaries were registered at fifth level and six beneficiaries at sixth-year (final year) of B.V.Sc.

7. Revenue and expenditure for 2013

For the 2013 academic year, the scheme received a budget of R16,3 million, which was administered as follows:

- R 12 500 000: transferred to NSFAS for bursary holders in universities and universities of technology within South Africa;
- R 1 461 076, 70: transferred to DIRCO for bursary holders in universities in China; and
- R 2 349 135, 00: administered by the Directorate: Financial Accounting (DAFF) for bursary holders in high schools and colleges of agriculture (South Africa).

Table 17 below shows the analysis of expenditure incurred for implementation of the scheme during the 2013 academic year:

TABLE 17 Analysis of expenditure according to fields of study registered by all bursary holders for 2013 [n = 316]

Field of study	Amount (R)				Total
	No. passed	% passed	No. failed	% failed	
B.V.Sc.	1 285 717,00	338 867,00	474 480,00	477 784,00	2 576 848,00
B.Sc. Viticulture and Oenology	972 167,00	88865,00	0	0	1 061 032,00
B. Agric Viticulture	47 552,00	0	0	102 129,00	149 681,00
B.Sc. Bioresource Engineering	1 835 873,00	0	58 414,00	74 330,00	1 968 617,00
B.Sc. Agric. Economics	214 281,00		0	0	214 281,00
B.Sc. Food Science	631 964,00	0	0	0	631 964,00

TABLE 17 Analysis of expenditure according to fields of study registered by all bursary holders for 2013 [n = 316] (cont.)

Field of study	Amount (R)				Total
	No. passed	% passed	No. failed	% failed	
B.Sc. Genetics	442 681,82	0	0	0	442 681,82
B.Sc. Geo-informatics	169 627,00	0	83 660,00	0	253 287,00
B.Sc. Plant Pathology	321 772,00	0	35 945,00	0	357 717,00
B.Sc. Soil Science	597 255,00	0	0	0	597 255,00
B.Sc. Agronomy	271 152,00	0	0	97 252	368 404,00
B.Sc. Plant Sciences	70 849,00	0	0	0	70 849,00
B.Sc. Pasture Science	433 818,00	0	0	0	433 818,00
B.Sc. Forestry Science	183 733,00	0	0	0	183 733,00
B.Sc. Forestry and Wood Science	361 439,00	0	0	0	361 439,00
B.Sc. Marine Biology	220 051,00	152 352,00	0	0	372 403,00
B.Sc. Oceanography and Marine Biology	0,00	93 220,00	0	0	93 220,00
B.Sc. Ichthyology specialising in Aquaculture	182 797,00	0	0	174 326,00	357 123,00
Nat. Dipl. Forestry	229 890,00	0	0	0	229 890,00
Nat. Dipl. Food Technology	279 779,00	2 060	0	0	281 839,00
Nat. Dipl. Oceanography	253 009,00	102 875	0	0	355 884,00
Nat. Dipl. Agriculture	50 990,00	0	0	0	50 990,00
Diploma in Forestry	254 855,00	0	0	0	254 855,00
Diploma in Agriculture	1 219 483,00	71 610,00	0	0	1 291 093,00
National Senior Certificate	586 043,00	67 463,00	0	0	653 506,00
B.Tech. Oceanography	20 220,00	0	0	0	20 220,00
B.Sc. Applied Remote Sensing and GIS (Hons)	21 655,00	0	0	0	21 655,00
B.Sc. Environmental Science (Hons)	31 355,00	0	0	0	31 355,00
B.Sc. Biochemistry (Hons)	21 655,00	0	0	0	21 655,00
B.Sc. Botany (Hons)	21 659,00	0	0	0	21 659,00
B.Sc. Marine Biology (Hons)	22 300,00	0	0	0	22 300,00
M.Tech. Animal Production	2 910,00	0	0	0	2 910,00
M.Tech. Environmental Management	14 860,00	0	0	0	14 860,00
M.Tech. Forestry	0	0	0	7 040,00	7 040,00
M.Sc. Entomology	25 000,00	0	0	0	25 000,00
M.Sc. Food Science	46 039,00	0	0	0	46 039,00
M.Sc. Agriculture	34 319,00	0	0	0	34 319,00
M.Sc. Aquaculture	4 610,00	0	0	0	4 610,00
M.Sc. Agronomy	7 360,00	0	0	0	7 360,00
M.Sc. Biochemistry	11 368,00	0	0	0	11 368,00
M.Sc. Soil Science	500,00	0	0	0	500,00
M.Sc. Plant Pathology	22 250,00	0	0	0	22 250,00
M.Sc. Pasture Science	17 790,00	0	0	0	17 790,00
M.Sc. Veterinary Science	2 750,00	0	0	0	2 750,00
M.Sc. Environmental Management	500,00	0	0	0	500,00
M.Sc. Biodiversity and Conservation Biology	0	1 500,00	0	0	1 500,00
M.Sc. Forestry	0	0	0	500,00	500,00
M.Sc. Molecular and Cell Biology	18 504,00	0	0	0	18 504,00
M.Sc. Fisheries Science	16 055,00	0	0	0	16 055,00

TABLE 17 Analysis of expenditure according to fields of study registered by all bursary holders for 2013 [n = 316] (cont.)

Field of study	Amount (R)				Total
	No. passed	% passed	No. failed	% failed	
M.Com. Agricultural Economics	500,00	0	0	0	500,00
M.Sc. Aquatic Breeding (international)	33 033,02	0	0	0	33 033,02
M.Sc. Agronomy (international)	493 190,02	0	0	0	493 190,02
M.Sc. Agric. Economics (international)	368125,6	0	0	0	368 125,60
M.Sc. Animal Science (international)	66 066,04	0	0	0	66 066,04
M.Sc. Crop Cultivation (international)	33 033,02	0	0	0	33 033,02
M.Sc. Plant Quarantine (international)	92 927,18	0	0	0	92 927,18
M.Sc. Rural Development (international)	92 927,18	0	0	0	92 927,18
M.Sc. Zoology (international)	33 033,02	0	0	0	33 033,02
Ph.D. Rural Development (international)	34 274,14	0	0	0	34 274,14
Ph.D. Agronomy (international)	214 467,48	0	0	0	214 467,48
Ph.D. Animal Production	2 750,00	0	0	0	2 750,00
D.Tech.. Chemistry	500,00	0	0	0	500,00
Total	12 945 263,52	918 812,00	652 499,00	933 361,00	15 449 935,52

Table 17 shows that R15 449 935,52 was spent on the 2013 bursary beneficiaries. The highest expenditure of R2 576 848,00 was recorded for B.V.Sc.

TABLE 18 Analysis of the 2013 expenditure for all bursary holders according to gender [n = 316]

Field of study	Male: Amount (R)	Female: Amount (R)	Total (R)
B.V.Sc.	624 550,00	1 952 298,00	2 576 848,00
B.Sc. Viticulture and Oenology	361 560,00	699 472,00	1 061 032,00
B. Agric. Viticulture	96 098,00	53 583,00	149 681,00
B.Sc. Bioresource Engineering	823 136,00	1 145 481,00	1 968 617,00
B.Sc. Agric Economics	88 586,00	125 695,00	214 281,00
B.Sc. Food Science	13 290,00	618 674,00	631 964,00
B.Sc. Genetics	272 243,82	170 438,00	442 681,82
B.Sc. Geo-informatics	0	253 287,00	253 287,00
B.Sc. Plant Pathology	78 509	279 208,00	357 717,00
B.Sc. Soil Science	268 931,00	328 324,00	597 255,00
B.Sc. Agronomy	61 163,00	307 241,00	368 404,00
B.Sc. Plant Science	0	70 849,00	70 849,00
B.Sc. Pasture Science	139 414	294 404,00	433 818,00
B.Sc. Forestry Science	89 959,00	93 774,00	183 733,00
B.Sc. Forestry and Wood Science	87 149,00	274 290,00	361 439,00
B.Sc. Marine Biology	0	372 403,00	372 403,00
B.Sc. Oceanography and Marine Biology	0	93 220,00	93 220,00
B.Sc. Ichthyology specialising in Aquaculture	180 501,00	176 622,00	357 123,00
Nat. Dipl. Forestry	80 730,00	149 160,00	229 890,00
Nat. Dipl. Food Technology	93 836,00	188 003,00	281 839,00
Nat. Dipl. Oceanography	125 100,00	230 784,00	355 884,00
Nat. Dipl. Agriculture	0	50 990,00	50 990,00
Diploma in Forestry	139 975,00	114 880	254 855,00
Diploma in Agriculture	463 901,00	827 192	1 291 093,00
National Senior Certificate	323253,00	330 253,00	653 506,00
B.Tech. Oceanography	0	20 220,00	20 220,00

TABLE 18 Analysis of the 2013 expenditure for all bursary holders according to gender [n = 316] (cont.)

Field of study	Male: Amount (R)	Female: Amount (R)	Total (R)
B.Sc. Applied Remote Sensing and GIS (Hons)	0	21 655	21 655,00
B.Sc. Environmental Science (Hons)	0	31 355,00	31 355,00
B.Sc. Biochemistry (Hons)	0	21 655,00	21 655,00
B.Sc. Botany (Hons)	21659,00	0,00	21 659,00
B.Sc. Marine Biology (Hons)	0	22 300,00	22 300,00
M.Tech. Animal Production	970,00	1 940,00	2 910,00
M.Tech. Environmental Management	0,00	14 860,00	14 860,00
M.Tech. Forestry	7 040,00	0	7 040,00
M.Sc. Entomology	25 000,00	0	25 000,00
M.Sc. Food Science	0	46 039,00	46 039,00
M.Sc. Agriculture	34 319,00	0	34 319,00
M.Sc. Aquaculture	0,00	4 610	4 610,00
M.Sc. Agronomy	0	7 360,00	7 360,00
M.Sc. Biochemistry	0	11 368,00	11 368,00
M.Sc. Soil Science	500,00	0,00	500,00
M.Sc. Plant Pathology	22 250,00	0	22 250,00
M.Sc. Pasture Science	17 790,00	0	17 790,00
M.Sc. Veterinary Science	0	2 750,00	2 750,00
M.Sc. Environmental Management	500,00	0	500,00
M.Sc. Biodiversity and Conservation Biology	1 000,00	500,00	1 500,00
M.Sc. Forestry	500,00	0	500,00
M.Sc. Molecular and Cell Biology	0	18 504,00	18 504,00
M.Sc. Fisheries Science	0	16 055,00	16 055,00
M.Com. Agricultural Economics	0	500,00	500,00
M.Sc. Aquatic Breeding (international)	0	33 033,02	33 033,02
M.Sc. Agronomy (international)	493 190,02	0	493 190,02
M.Sc. Agric. Economics (international)	92031,40	276094,20	368 125,60
M.Sc. Animal Science (international)	66 066,04	0	66 066,04
M.Sc. Crop Cultivation (international)	0	33 033,02	33 033,02
M.Sc. Plant Quarantine (international)	0	92 927,18	92 927,18
M.Sc. Rural Development (international)	0	92 927,18	92 927,18
M.Sc. Zoology (international)	0	33 033,02	33 033,02
Ph.D. Rural Development (international)	0	34 274,14	34 274,14
Ph.D. Agronomy (international)	107 233,74	107 233,74	214 467,48
Ph.D. Animal Production	2 750,00	0	2 750,00
D.Tech.. Chemistry	0	500,00	500,00
Total	5 304 684,02	10 145 251,50	15 449 935,52

Table 18 shows that the bursary expenditure was R5 304 684,02 for male beneficiaries and R10 145 251,50 for females.

TABLE 19 Breakdown of the 2013 expenditure for all bursary holders according to institutions [n = 316]

Institution	No. of awards	Amount spent (R)
University of Pretoria	49	3 651 499,00
University of Stellenbosch	25	1 919 000,00
University of KwaZulu-Natal	39	2 460 263,00
University of the Free State	8	605 309,00
University of Fort Hare	13	729 726,00
University of Limpopo	5	199 696,00
University of Cape Town	2	165 500,00

TABLE 19 Breakdown of the 2013 expenditure for all bursary holders according to institutions [n = 316] (cont.)

Institution	No. of awards	Amount spent (R)
University of South Africa	1	500,00
Rhodes University	6	406 081,00
University of the Western Cape	5	153 852,00
University of the Witwatersrand	4	204 049,82
University of Venda	3	127 520,00
University of Zululand	1	52 155,00
China Agricultural University	16	1 328 944,62
Jiling Agricultural University	3	99 099,06
Nanjing University	1	33 033,02
Cape Peninsula University of Technology	11	511 464,00
Tshwane University of Technology	8	168 409,00
Nelson Mandela Metropolitan University	6	237 430,00
Durban University of Technology	2	47 270,00
Elsenburg College of Agriculture	3	149 681,00
Grootfontein Agricultural Development Institute	37	1 291 093,00
Fort Cox College of Agriculture and Forestry	9	254 855,00
Byletts High School	1	14 400,00
Breda Combined School	2	23 400,00
De Rust Futura Akademie	6	80 100,00
Diwiti High School	6	53 700,00
Glen Edward Secondary School	6	55 800,00
Inkomazi Senior Secondary School	2	30 000,00
Kgagatlou Secondary School	2	19 600,00
Kuschke Agricultural High School	2	29 975,00
Leshata High School	2	22 900,00
Mampoi High School	2	13 200,00
Masibumbane High School	2	27 668,00
Motsweding High School	2	30 000,00
Ndaliso Senior Secondary School	2	29 000,00
Oranjezicht Hoërskool	7	67 46,00
Phandulwazi Agricultural High School	2	22 900,00
Schaumburg Combined School	6	76 200,00
Sophumelela High School	2	18 800,00
Umfundlana Combined School	5	38 400,00
Total	316	15 449 935,52

Table 19 above shows that the total expenditure incurred at various institutions was R15 449 935,52. The highest expenditure recorded was R3 651 499,00 at the University of Pretoria, followed by R2 460 263,00 at the University of KwaZulu-Natal and R1 919 000,00 at the University of Stellenbosch.

8. Summary of the beneficiaries of the external bursary scheme from 2004 to 2013

the tracking of all bursary beneficiaries who participated and benefited from the External Bursary Scheme is of critical importance for measuring the success of the scheme. A database of all the bursary holders who completed their studies has been developed and it is updated annually during the month of April. The table below gives an analysis of bursary holders who benefited from the scheme from its inception in 2004 up to 2013.

TABLE 20 Summary of beneficiaries of the External Bursary Scheme from 2004 to 2013 [n =866]

Fields of study	Year													Total	Total completed tertiary qualification
	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	Total				
B.V.Sc.	18	16	7	6	6	9	4	10	10	10	13	99	43		
B.Sc. Bioresource Engineering	4	8	9	8	8	5	6	10	12	12	6	76	23		
B.Sc. Viticulture and Oenology	12	6	7	3	9	1	2	3	2	2	4	49	23		
B. Agric. Viticulture	10	9	2	1	3	1	2	4	4	4	0	36	20		
B.Sc. Agric. Economics	0	10	7	3	19	10	0	1	0	0	1	51	36		
B.Com. Agric. Economics	0	0	0	0	0	0	1	0	0	0	0	1	1		
B.Sc. Food Science	0	4	3	3	6	6	3	4	2	2	5	36	26		
B.Sc. Genetics	0	0	0	0	0	1	0	3	5	0	0	9	3		
B.Sc. Biotechnology	0	0	1	6	10	0	0	0	0	0	0	17	14		
B.Sc. Entomology	0	0	0	0	0	0	0	1	1	1	0	2	1		
B.Sc. Plant Pathology	0	0	0	0	0	0	1	2	1	1	2	6	1		
B.Sc. Plant Science	0	0	0	0	0	0	0	0	0	0	1	1	0		
B.Sc. Pasture Science	0	0	0	0	0	0	0	9	2	2	0	11	10		
B.Sc. Agronomy	0	0	0	0	0	0	0	4	2	2	2	8	3		
B.Sc. Soil Science	0	0	0	0	0	0	2	4	2	2	2	10	5		
B.Sc. Forestry Science	0	0	3	0	0	0	2	6	0	0	0	11	4		
B.Sc. Forestry and Wood Science	0	0	0	0	0	0	17	4	1	3	3	25	18		
B.Sc. Wood Science	0	0	0	0	0	0	2	0	0	0	0	2	2		
B.Sc. Geology Science	0	0	0	0	0	0	1	0	0	0	0	1	1		
B.Sc. Geo-informatics	0	0	0	0	0	0	0	0	0	0	3	3	2		
B.Sc. Marine Biology	0	0	0	0	0	0	0	0	1	1	5	6	3		
B.Sc. Oceanography and Marine Biology	0	0	0	0	0	0	0	0	2	2	1	3	2		

TABLE 20 Summary of beneficiaries of the External Bursary Scheme from 2004 to 2013 [n =866] (cont.)

Fields of study	Year													Total	Total completed tertiary qualification
	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	Total				
B.Sc. Ichthyology specialising in Aquaculture	0	0	0	0	0	0	0	0	0	0	0	0	2	4	2
Nat. Dipl. Agric. Management	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
Nat. Dipl. Agriculture	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Nat. Dipl. Food Technology	0	0	0	0	7	8	0	0	5	2	0	3	3	25	21
Nat. Dipl. Forestry	0	0	0	0	0	0	0	15	3	3	0	1	1	22	18
Nat. Dipl. Oceanography	0	0	0	0	0	0	0	0	2	2	0	2	0	6	0
Nat. Dipl. Veterinary Technology	6	0	0	0	0	0	0	0	0	0	0	0	0	6	4
Diploma in Agriculture	7	4	10	11	10	24	22	11	7	22	128	102			
Diploma in Forestry	0	0	0	0	0	0	0	0	0	9	9	0	0	0	0
Postgraduate Diploma in Higher Education	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
B.Tech. Food Technology	5	6	6	2	2	6	1	1	0	0	29	28			
B.Tech. Agric. Management	0	0	0	0	0	1	0	0	0	0	1	1	0	1	1
B.Tech. Biotechnology	0	0	0	0	0	0	0	1	0	0	1	1	0	1	1
B.Tech. Food Consumer Science	5	0	0	0	0	0	1	0	0	0	6	5			
B.Tech. Engineering	0	6	0	0	0	1	0	0	0	0	7	5			
B.Tech. Forestry	0	0	0	0	0	0	3	3	0	0	6	6			
B.Tech. Oceanography	0	0	0	0	0	0	0	0	1	1	2	1			
Honours	0	4	2	2	7	8	0	7	5	5	40	35			
M.Tech. Animal Production	0	0	0	0	0	0	0	2	3	0	5	0			
M.Tech. Agriculture	0	0	0	0	0	0	0	1	0	0	1	0			
M.Tech. Food Technology	0	0	0	0	0	0	0	1	0	0	1	1			
M.Tech. Forestry	0	0	0	0	0	0	0	0	1	0	1	0			
M.Tech. Environmental Management	0	0	0	0	0	0	0	0	0	0	1	0			
Masters. (domestic)	0	13	9	5	5	10	0	7	9	13	71	38			
Masters (international)	0	0	0	0	0	0	0	10	7	0	17	9			
Ph.D. International Studies	0	0	0	0	0	0	0	2	1	0	3	0			

TABLE 20 Summary of beneficiaries of the External Bursary Scheme from 2004 to 2013 [n =866] (cont.)

Fields of study	Year												Total	Total completed tertiary qualification
	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14				
Ph.D. Domestic	0	2	1	0	0	0	1	3	0	0	0	0	7	2
D.Tech., Chemistry	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Total beneficiaries	67	88	67	50	92	86	86	126	89	109	866	514		
Total expenditure (R)	2 912 535,00	4 103 960,00	8 385 715,00	8 919 300,00	10 510 734,00	10 277 537,00	10 387 758,94	13 181 674,57	13 242 583,52	15 449 935,52	97 371 733,55			

Table 20 indicates that 866 bursary holders benefited from the scheme from its inception in 2004 and 514 successfully completed their tertiary qualifications. The table further shows that the highest number of beneficiaries was recorded in the following fields of study: Diploma in Agriculture (128); B.Sc. Veterinary Science (99); B.Sc. Bioresource Engineering (76); B.Sc. Agricultural Economics (51); B.Sc. Viticulture and Oenology (49); Masters (domestic—71); Masters (international— 17), Ph.D. (domestic— 7) and Ph.D. (international— 3). The total amount spent on the implementation of the bursary scheme from 2004 to 2013 is R97 371 733.55.

9. Summary of the external bursaries awarded by provincial departments of agriculture during the 2013 academic year

9.1 Mpumalanga Department of Agriculture, Rural Development and Land Administration

TABLE 21 Breakdown of the end-of-year performance of bursary holders sponsored by the Mpumalanga Department of Agriculture, Rural Development and Land Administration in 2013 [n = 81]

Fields of study	Race												Results			Total			
	African				Coloured				Indian				White				No. passed	No. failed	
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. passed	No. failed					
B.Sc. Agricultural Economics	2	2	0	0	0	0	0	0	0	0	0	0	0	2	0	2			
B.Sc. Agricultural Engineering	2	2	0	0	0	0	0	0	0	0	0	0	0	2	0	2			
B.Sc. in Agronomy	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1			
B.Sc. Animal Health	3	3	0	0	0	0	0	0	0	0	0	0	0	3	0	3			

TABLE 21 Breakdown of the end-of-year performance of bursary holders sponsored by the Mpumalanga Department of Agriculture, Rural Development and Land Administration in 2013 [n = 81] (cont.)

Fields of study	Race												Results			Total				
	African				Coloured				Indian				White				No. passed	No. failed		
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out					
B.Sc. Animal Science	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6
B.V.Sc.	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
B.Sc. Aquaculture	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
B. Agric. Commercial Mixed Farming	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
B. Sc. Crop Science	52	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0	52
B.Sc. Forestry	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
Nat. Dipl. Veterinary Technology	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
Nat. Dipl. Animal Production	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
Total	79	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	1	0	81

The table above shows that out of 81 bursary beneficiaries, 80 passed while one (1) failed the end-of-year examinations.

9.2 KwaZulu-Natal Department of Agriculture

TABLE 22 Breakdown of the end-of-year performance of bursaries sponsored by the KwaZulu-Natal Department of Agriculture in 2013 [n =119]

Fields of study	Race												Results			Total				
	African				Coloured				Indian				White				No. passed	No. failed		
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out					
B.A. Agric Extension and Rural Resource Management	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	1
B.Sc. Agric. Management	21	20	1	0	0	0	0	0	0	0	0	0	1	1	0	0	21	0	0	21
B.Sc. Agric. Engineering	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
B.Sc. Agric. Agribusiness	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
B.Sc. Agronomy	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	3	0	15
B.Sc. Agric. Animal Science	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
B.Sc. Agric. Economic	12	12	0	0	0	0	0	0	0	0	0	0	1	1	0	0	13	0	0	13

TABLE 22 Breakdown of the end-of-year performance of bursaries sponsored by the KwaZulu-Natal Department of Agriculture in 2013 [n =119] (cont.)

Fields of study	Race						Results						Total
	African		Coloured		Indian		White		No. passed	No. failed			
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams			No. drop out		
B.Sc. Biochemistry and Microbiology	1	1	0	0	0	0	0	0	0	1	0	1	
B.Sc. Consumer Science Extension and Rural Development	1	1	0	0	0	0	0	0	0	0	1	1	
B.Sc. Environmental Science	9	9	0	0	0	0	0	0	0	9	0	9	
B.Sc. Environmental Management	4	4	0	0	0	0	1	0	0	5	0	5	
B.Sc. Environmental Science Hydrology	3	3	0	0	0	0	0	0	0	3	0	3	
B.Sc. Genetics	4	3	1	0	0	0	1	0	0	3	0	3	
B.Sc. Marine Biology and Applied Biology	1	1	0	0	0	0	0	0	0	1	0	1	
B.Sc. Microbiology	3	3	0	0	0	0	0	0	0	3	0	3	
B. Soc. Sci Environmental Management	1	1	0	0	0	0	0	0	0	1	0	1	
B.Sc. Plant Pathology	3	3	0	0	0	0	0	0	0	3	0	3	
B.Sc. Chemistry and Chemical Technology	1	1	0	0	0	0	0	0	0	1	0	1	
B.V.Sc.	2	1	1	0	0	0	8	8	6	15	0	15	
B.Sc. Soil Conservation	1	1	0	0	0	0	0	0	0	1	0	1	
B.Sc. Agric. Horticulture	1	1	0	0	0	0	0	0	0	1	0	1	
LLB. Environmental Legal Compliance	1	1	0	0	0	0	0	0	0	1	0	1	
LLB. Bachelor of Law	1	1	0	0	0	0	0	0	0	1	0	1	
Nat. Dipl. Agriculture	1	1	0	0	0	0	0	0	0	1	0	1	
Nat. Dipl. Animal Health	6	6	0	0	0	0	0	0	0	6	0	6	
Nat. Dipl. Civil Engineering	1	1	0	0	0	0	0	0	0	1	0	1	
Total	100	97	3	0	0	0	11	10	8	111	4	100	

The table above shows that out of 119 bursary beneficiaries, 111 passed while four (4) failed their end-of-year examinations and four (4) discontinued

9.3 Limpopo Department of Agriculture

TABLE 23 Breakdown of the end-of-year performance of bursary holders sponsored by the Limpopo Department of Agriculture in 2013 [n =111]

Fields of study	Race												Results			Total			
	African				Coloured				Indian				White				No. passed	No. failed	
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out				
B.Sc. Animal Health	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	25	
B.Sc. Plant Pathology	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.Sc. Agricultural Economics	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	7	
B.Sc. Agric. Engineering	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	
B.V.Sc.	38	38	0	0	0	0	0	0	0	0	0	0	0	0	0	31	7	38	
B.Sc. Environmental and Bio-Systems Engineering	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.Sc. Food Science Technology	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1	13	
B.Sc. Animal Production	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
B.Sc. Horticulture	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	
B.Sc. Pasture Science	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	6	
B.Sc. Soil Science	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	
B.Sc. Civil Engineering	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6	
Nat. Dipl. Civil Engineering	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Total	111	111	0	0	0	0	0	0	0	0	0	0	0	0	0	94	17	111	

The table above shows that out of 111 bursary beneficiaries, 94 passed while 17 failed their end-of-year examinations.

9.4 Western Cape Department of Agriculture

TABLE 24 Breakdown of the end-of-year performance of bursary holders sponsored by the Western Cape Department of Agriculture in 2013 [n =29]

Fields of study	Race												Results			Total			
	African				Coloured				Indian				White				No. passed	No. failed	
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out				
B.V.Sc.	0	0	0	0	2	0	0	1	1	0	0	0	1	1	0	4	0	4	
B.Sc. Civil Engineering	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.Sc. Agric Economics	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	2	

TABLE 24 Breakdown of the end-of-year performance of bursary holders sponsored by the Western Cape Department of Agriculture in 2013 [n =29] (cont.)

Fields of study	Race												Results			Total			
	African				Coloured				Indian				White				No. passed	No. failed	
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out				
B.Sc. Microbiology	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	2	
B.Sc. Soil Science	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.Sc. Ecology	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	
B.Sc. Agronomy	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
B. Agriculture	1	1	0	1	1	0	0	0	1	0	0	0	1	1	0	3	0	3	
Nat. Dipl. Horticulture	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
Nat. Dipl. Civil Engineering	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0	7	0	7	
M.Sc. Inst. Agrarian	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	2	
M. Tech. Agricultural Management	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	2	
M. Tech. Food Technology	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
M. Agric. Administration	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
Total	8	8	0	15	15	0	1	1	1	0	0	0	5	5	0	29	0	29	

The table above shows that all beneficiaries passed their end-of-year examinations.

9.5 North West Department of Agriculture and Rural Development

TABLE 25 Breakdown of the end-of-year performance of bursary holders sponsored by the North West Department of Agriculture in 2013 [n =9]

Fields of study	Race												Results			Total			
	African				Coloured				Indian				White				No. passed	No. failed	
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out				
B.Sc. Agric. Economics	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5	
B.Sc. Zoology	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.Sc. Genetics and Bacteriology	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	2	
Nat. Dipl. Crop Science	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	
Total	7	7	0	0	0	0	0	0	0	0	0	0	2	2	0	9	0	9	

The table above shows that all beneficiaries passed their end-of-year examinations.

9.6 Gauteng Department of Agriculture

TABLE 26: Breakdown of the end-of-year performance of bursary holders sponsored by the Gauteng Department of Agriculture in 2013 [n =53]

Fields of study	Race												Results			Total			
	African				Coloured				Indian				White				No. passed	No. failed	
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out				
B.Sc. Biochemistry	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0	3	0	3	
B.Sc. Biotechnology	3	3	0	0	0	0	1	1	0	0	0	1	1	0	0	5	0	5	
B.Sc. Genetics	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
B. Comm. Agribusiness Management	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.V.Sc.	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Nat. Dipl. Biotechnology	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	14	
Nat. Dipl. Veterinary Technology	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
B. Tech. Biotechnology	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	16	
M.Sc. Biotechnology	5	5	0	1	1	0	2	2	2	0	0	2	2	0	0	10	0	10	
Total	44	44	0	1	1	0	4	4	4	0	0	4	4	0	0	53	0	53	

The table above shows that all beneficiaries passed their end-of-year examinations.

9.7 Northern Cape Department of Agriculture

TABLE 27 Breakdown of the end-of-year performance of bursary holders sponsored by the Northern Cape Department of Agriculture in 2013 [n =38]

Fields of study	Race												Results			Total			
	African				Coloured				Indian				White				No. passed	No. failed	
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out				
B.Sc. Agric. Economics	5	5	0	1	1	0	0	0	0	0	0	0	0	0	0	6	0	6	
B.Sc. Agric. Management	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	
B.Sc. Animal Science	2	2	0	0	0	0	0	0	0	0	0	1	1	0	0	3	0	3	
B.Sc. Water Resource Engineering	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
B.V.Sc.	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	2	0	2	
B.A. Land Reform and Rural Development	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	

TABLE 27 Breakdown of the end-of-year performance of bursary holders sponsored by the Northern Cape Department of Agriculture in 2013 [n =38] (cont.)

Fields of study	Race												Results			Total		
	African				Coloured				Indian				White					
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out		No. passed	No. failed
Nat. Dipl. Agricultural Management	9	9	0	5	5	0	0	0	0	0	0	0	0	0	0	12	2	14
Nat. Dipl. Disaster Management	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Nat. Dipl. Horticulture	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
B. Tech. Civil Engineering	1	1	0	1	1	0	0	0	0	0	0	0	0	0	2	0	2	
B.Sc. Agricultural Economics (Hons)	3	2	1	0	0	0	0	0	0	0	0	0	0	0	2	0	3	
Total	28	27	1	7	7	0	0	0	0	0	0	0	3	0	35	2	37	

The table above shows that out of 38 bursary beneficiaries, 35 passed while two (2) failed their end-of-year examinations and one (1) had dropped out.

9.8 Eastern Cape Department of Rural Development and Agrarian Reform

TABLE 28 Breakdown of the end-of-year performance of bursary holders sponsored by the Eastern Cape Department of Rural Development and Agrarian Reform in 2013 [n =29]

Fields of study	Race												Results			Total		
	African				Coloured				Indian				White					
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out		No. passed	No. failed
Sc. Animal Science	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Animal Production	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
B.V.Sc.	3	3	0	0	0	0	1	0	1	0	0	0	2	0	6	0	0	6
B.Sc. Agricultural Economics	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
B.Sc. Civil Engineering	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.Sc. Plant Pathology	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
B. Agric. Administration	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nat. Dipl. Horticulture	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Nat. Dipl. Crop Production	4	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	

TABLE 28 Breakdown of the end-of-year performance of bursary holders sponsored by the Eastern Cape Department of Rural Development and Agrarian Reform in 2013 [n =29] (cont.)

Fields of study	Race												Results			Total			
	African				Coloured				Indian				White				No. passed	No. failed	
	No of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out	No. of awards	No. wrote exams	No. drop out				
Nat. Dipl. Animal Production	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	
Nat. Dipl. National Forestry	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Nat. Dipl. Agric. Business Management	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Nat. Dipl. Agric. Economics	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Nat. Dipl. Animal Health	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Total	6	23	2	0	0	0	1	1	1	0	0	0	2	2	0	0	27	0	

The table above shows that out of 29 bursary beneficiaries, 27 passed their end-of-year examinations and two (2) dropped out.

11. Conclusion

this report provides an overview of activities executed during the 2013 academic year in terms of the implementation of the DAFF's External Bursary Scheme. The report further demonstrated the need to increase access to institutions of higher learning by providing financial assistance for deserving young people to further their studies in one of the identified scarce and critical skills in agriculture, forestry and fisheries.

During the 2013 academic year, R16,3 million was allocated to implement the scheme. This budget proved to be insufficient judging by the 66 new undergraduate bursaries awarded in scarce and critical skills for 2013 against 1003 relevant and fundable applications received from young people coming from previously disadvantaged and poverty-stricken deep rural communities. The 1 003 figure on applications received in response to the bursary advertisement clearly demonstrates that many young people seriously need financial assistance to further their studies, particularly in agriculture, forestry and fisheries.

From the 316 DAFF bursary beneficiaries supported in 2013, 311 wrote their final year examination and 293 (94,2%) passed their examination. Of this total, 71 completed their studies, which is an indication of good return on investment.

The approval by the Director-General in 2010 to appoint completing bursary holders additional to the post establishment where directorates have the budget was the major achievement to ensure return on investment. Flowing from this approval, the B.V.Sc. and B.Sc. Bioresource Engineering bursary holders who completed their studies in 2011 were all appointed as veterinarians and candidate engineers in the department during the 2013/14 financial year.

The report further demonstrated the need for career awareness to be strengthened in fields of study that are scarce and critical in forestry and fisheries such as B.Sc. Oceanography and Marine Biology, B.Sc. Ichthyology specialising in Aquaculture and Nat. Dipl. Oceanography.

Based on the growing interest in the programme among young people wanting to pursue studies in agriculture, forestry and fisheries scarce skills, the current budget for the scheme needs to be increased so that the sustainable growth of the agriculture, forestry and fisheries sectors may be ensured.

