

Annual report

Implementation of the External Bursary Scheme

2011/12



agriculture,
forestry & fisheries

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2011/12

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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

Foreword by the Director-General

I am pleased to present the 2011/12 Annual Report on the implementation of the External Bursary Scheme of the Department of Agriculture, Forestry and Fisheries. The 2011/12 report is the sixth of a series of reports published by the department on the implementation of the scheme.

The shortage of skilled professionals and technical staff is one of the handicaps for growth and development in the agriculture, forestry and fisheries sector. There is also evidence that the majority of senior researchers and technicians are approaching retirement and even worse, the majority of young people are reluctant to further their studies in the areas prioritised as scarce and critical in agriculture, forestry, and fisheries. The findings outlined in the 2010 Report on Graduate Enrolments and Outputs in Public Higher Education Institutions and Colleges of Agriculture also demonstrate that there is a severe undersupply of certain critical and scarce skills in agriculture, forestry, and fisheries among the previously disadvantaged groups.

The department introduced the External Bursary Scheme in 2004 as a vehicle to recruit and fund young people to follow a career in scarce and critical skills in agriculture, forestry and fisheries. Since the inception of the scheme, 982 young people benefitted from financial assistance to further their studies and 418 successfully completed their qualifications. Of the 982 bursary beneficiaries, 268 constitute the 2011 academic year beneficiaries.

The process to recruit deserving students is directed through the national print media, radio and pamphlets to ensure wider publicity in all parts of South Africa, including the rural areas. Through the implementation of the scheme, the department continues to build a secure and sustainable talent pipeline of appropriately trained and skilled professionals while enhancing transformation of skewed participation in the sector.

The scope of the report covers the activities relating to the 2011/12 bursary awards and the management processes in terms of recruitment, selection, monitoring, and evaluation of the academic performance, counselling support services offered to bursary holders and analysis of bursars who completed their studies.

In conclusion, the report provides the significant contribution that the department is making in addressing the shortage of scarce and critical skills in the agriculture, forestry and fisheries. The DAFF will remain committed to ensure increased production in the agriculture, forestry and fisheries sector by nurturing a pool of industry experts.



DIRECTOR-GENERAL

MR L. ZITA

Executive summary

The 2011/12 Annual report on the implementation of the external bursary scheme covers activities relating to the 2011/12 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 268 students were awarded bursaries to further their studies during the 2011 academic year. In terms of race, 211 (78,7%) Africans, 24 Coloureds (9,0%), 14 Indians (5,2,0%), and 19 Whites (7,1%) benefitted from the scheme in 2011. With regard to gender, 133 (49,6%) are males and 135 (50,4%) are females. Out of the 268 bursary holders, 112 constituted new intake additional to the 156 beneficiaries who were already in the system. Of the new intake, 74 were undergraduates and 38 postgraduates (B.Tech., Hons, Masters, and Ph.D.).

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 268 beneficiaries who were awarded bursaries, 264 wrote their 2011 end-of-year examinations. Of the 264, 246 (93,2%) passed and 18 (6,8%) failed. Despite the support given to bursary holders, four of them discontinued from their studies because of not coping in the chosen field of study.

Regarding analysis of return on investment using academic performance as a tool, 52 beneficiaries, consisting of post-graduates and undergraduate students, successfully completed their studies in 2011.

1. Background and management processes

1.1 Introduction

The Department of Agriculture, Forestry and Fisheries (DAFF) introduced the External Bursary Scheme in 2004 to address the acute skills deficit and scarcity of professionals and technical staff in the agriculture, forestry, and fisheries sectors. The highly skilled workforce in the agriculture, forestry, and fisheries sectors is regarded as a cornerstone of the South African economy. The department has placed education and skills development at the centre of its policies and gave priority to invest in youth to ensure a skilled and capable workforce to support growth and job creation. The External Bursary Scheme is specifically designed to equip the youth with advanced training and development in scarce and critical skills in agriculture, forestry and fisheries that are necessary for a job market that is hostile to school leavers.

The Directorate: Sector Education and Training, which is responsible for the implementation of the External Bursary Scheme, annually forwards a needs analysis questionnaire to various technical line function directorates in the DAFF, the nine provincial departments of agriculture and other relevant stakeholders to identify current scarce and critical skills in agriculture, forestry and fisheries for which bursaries could be awarded.

Currently the scheme receives a budget of R8,3 million annually and funds are transferred to the National Students' Financial Aid Scheme (NSFAS) solely to be administered. The National Bursary Committee chaired by the Director: Sector Education and Training is responsible for awarding the bursaries. As indicated in section 7.2 of the External Bursary Policy and Procedures, the National Bursary Committee is always guided by the 14-point system criteria in awarding bursaries to deserving applicants. The implementation, monitoring, and evaluation of the External Bursary Scheme reside with the Sub directorate: Sector Skills Development.

Since the inception of the scheme in 2004, a total of 982 young people have benefitted from a variety of awards. Of this total, 418 successfully completed their studies.

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 pre-tertiary 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 driven

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 agriculture, forestry and fisheries sectors using the needs analysis questionnaire. The needs analysis questionnaires were sent to all relevant stakeholders in 2010. The information on scarce skills gathered from the needs analysis were analysed and the following fields of studies were prioritised for the 2011 academic year:

- Bachelor of Veterinary Science (B.V.Sc.)
- B.Sc. Bioresource Engineering
- B.Sc. Viticulture and Oenology
- B.Sc. Entomology
- B.Sc. Food Science
- B.Sc. Plant Pathology
- B.Sc. Aquaculture
- B.Sc. Genetics.
- B.Sc. Agronomy and Soil Science
- B.Sc. Forestry
- B.Sc. Marine Botany
- B.Sc. Pasture Science
- Nat. Dipl. Food Technology
- Nat. Dipl. Fisheries Management
- Nat. Dipl. Oceanography
- Nat. Dipl. Forestry
- Postgraduate (B.Tech, Hons, Masters and Ph.D.) in relevant agriculture, forestry and fisheries study fields linked to the DAFF priority research projects.

Based on the skills that were identified and prioritised, an advert was compiled and published in the City Press, Sunday Times, Isolezwe, Cape Argus, Daily Sun and The Star in June 2010 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 DAFF's 2010 external bursary opportunities was also done through the distribution of posters during July/August 2010 to institutions of higher learning, agricultural colleges, high schools, community libraries, the Agricultural Research Council, the Land Bank, provincial departments of agriculture as well as notice boards of the department's buildings in Pretoria (Agriculture Place, Sefala, Harvest House, Delpen and Silverton).

In response to the 2010 advert, a total of 1 533 (One thousand five hundred and thirty three) applications from potential applicants were received, captured, and analysed as follows:

- | | |
|----------------------------------|-----|
| • Bachelor of Veterinary Science | 100 |
| • B.Sc. Bioresource Engineering | 51 |
| • B.Sc. Viticulture and Oenology | 11 |
| • B.Sc. Food Science | 50 |

• B.Sc. Genetics	37
• B.Sc. Pasture Science	15
• B.Sc. Plant Pathology	20
• B.Sc. Entomology	06
• B.Sc. Aquaculture	03
• B.Sc. Soil Science and Agronomy	91
• B.Sc. Forestry	49
• B.Sc. Marine Botany	16
• Nat. Dipl. Food Technology	80
• Nat. Dipl. Fisheries Management	15
• Nat. Dipl. Oceanography	10
• Nat. Dipl. Forestry	169
• Total irrelevant	810
Total applications received	1533

Out of the total of 1533 applications received, 723 were relevant and fundable and 810 were irrelevant because applicants applied for fields of studies that were not advertised. Letters of regret were sent to 810 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 matriculation exemption with a good pass in Physical Science and Mathematics for admission. 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 of 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 13 January 2011 and as the highest decision-making body, the committee agreed on the following criteria for the 2011 awards:

- That the total number of bursary awards for 2011 academic year be based on the total budget available.
- That based on what DAFF can ensure is available for 2011, which is R4 100 000 (four million, one hundred thousand rand) a total number of 60 (sixty) awards be approved by NBC.
- That based on the proposal to DAFF's CFO of each line function Directorate contributing R100 000 (one hundred thousand rand) towards the Bursary Fund, to which he agreed in principle, which will provide an additional R4 000 000 (four million rand), the total number of awards be increased from 60 (sixty) to 80 (eighty) excluding awards for the Young Professional Development Programme.
- That for the 2011 bursary awards some fields of study shall be prioritised above others based on their level of scarcity. These include, but may not be limited to BVSc Viticulture and Oenology, B.Sc. Marine Botany, Forestry and Oceanography.
- That the approved Departmental 14 point system shall be employed in the selection of successful candidates for 2011.
- That the 2011 bursary awards budget has taken into consideration savings accruing from completing bursary holders as at the end of 2010 academic year.
- That people with disability who secured admission at institutions of higher learning shall be treated as an exception.
- That based on a record of 732 (seven hundred and thirty-two) relevant applications received for various study fields for 2011, the score of 10 points based on the 14 points system be used as minimum score for awards.
- That all learners from the FET "pilot" schools who qualified for university admission shall automatically qualify for bursary awards.
- That in the awarding of bursaries the NBC shall fulfil the sector strategic objective of elimination of skewed participation in agriculture, forestry and fisheries.

- 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:

• B.V.Sc.	10
• B.Sc. Bioresource Engineering	10
• B.Sc. Viticulture and Oenology	03
• B. Agric. Viticulture	04
• B.Sc. Food Science	04
• B.Sc. Soil Science	04
• B.Sc. Agronomy	04
• B.Sc. Pasture Science	04
• B.Sc. Plant Pathology	02
• B.Sc. Forestry Science	04
• B.Sc. Genetics	02
• B.Sc. Agric Economics	01
• B.Sc. Aquaculture	01
• Nat. Dipl. Forestry	03
• Nat. Dipl. Food Technology	05
• Nat. Dipl. Oceanography	02
• Diploma in Agriculture	11
• B.Tech.	05
• Honours	07
• M.Tech	03
• Masters	08
• Masters (International)	10
• Ph.D.	03
• Ph.D. (international)	02
Total awards	112

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 2011, 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 2011 bursary awards

2.1 Breakdown of all bursary awards for the 2011 academic year

In 2011, 112 new beneficiaries were awarded bursaries in addition to the 156 bursary holders who were already in the system.

TABLE 1 Breakdown of all 2011 bursary awards [n = 268]

Field of study	Race								Gender				Total
	African		Coloured		Indian		White		Male		Female		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
B.V.Sc.	9	39,1	4	17,4	10	43,5	0	0,0	4	17,4	19	82,6	23
B.Sc. Bioresource Engineering	18	81,8	0	0,0	2	9,1	2	9,1	13	59,1	9	40,9	22
B.Sc. Viticulture and Oenology	6	100,0	0	0,0	0	0,0	0	0,0	3	50,0	3	50,0	6
B.Agric. Viticulture	1	14,3	4	57,1	0	0,0	2	28,6	3	42,9	4	57,1	7

TABLE 1 Breakdown of all 2011 bursary awards [n = 268] (cont.)

Field of study	Race								Gender				Total
	African		Coloured		Indian		White		Male		Female		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
B.Sc. Agric. Economics	16	88,9	1	5,6	1	5,6	0	0,0	11	61,1	7	38,9	18
B.Sc. Agronomy	3	75,0	0	0,0	0	0,0	1	25,0	0	0,0	4	100,0	4
B.Sc. Aquaculture	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
B.Sc. Biotechnology	2	100,0	0	0,0	0	0,0	0	0,0	0	0,0	2	100,0	2
B.Sc. Food Science	11	100,0	0	0,0	0	0,0	0	0,0	5	45,5	6	54,5	11
B.Sc. Forestry	11	61,1	2	11,1	0	0,0	5	27,8	11	61,1	7	38,9	18
B.Sc. Plant Pathology	2	66,7	0	0,0	1	33,3	0	0,0	1	33,3	2	66,7	3
B.Sc. Soil Science	6	100,0	0	0,0	0	0,0	0	0,0	3	50,0	3	50,0	6
B.Sc. Pasture Science	6	100,0	0	0,0	0	0,0	0	0,0	3	50,0	3	50,0	6
B.Sc. Genetics	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
B.Com. Agri Business Management	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
Nat. Dipl. Oceanography	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
Nat. Dipl. Forestry	10	100,0	0	0,0	0	0,0	0	0,0	7	70,0	3	30,0	10
Nat. Dipl. Food Technology	12	92,3	1	7,7	0	0,0	0	0,0	5	38,5	8	61,5	13
Diploma in Agriculture	35	79,5	9	20,5	0	0,0	0	0,0	28	63,6	16	36,4	44
National Senior Certificate	23	79,3	2	6,9	0	0,0	4	13,8	10	34,5	19	65,5	29
B.Tech. Food Technology	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Tech. Food and Consumer Science	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
B.Tech. Forestry	2	66,7	0	0,0	0	0,0	1	33,3	1	33,3	2	66,7	3
B.Tech. Biotechnology	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
B.Sc. Microbiology and Biotechnology (Hons)	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
B.Sc. Food Science (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Environmental Management (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Plant Science (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
B.Sc. Agric Economics (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
M.Tech Animal Production	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
M.Tech Agriculture	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
M.Sc. Economic Geology Science	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
M.Sc. Animal Science	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
M.Sc. Soil Science	3	100,0	0	0,0	0	0,0	0	0,0	2	66,7	1	33,3	3
M.Sc. Wood Product Science	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
M.Sc. Forestry	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
M.Sc. Marine Bio-Science	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
M.Sc. Aquatic Breeding (international)	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
M.Sc. Agronomy (international)	5	100,0	0	0,0	0	0,0	0	0,0	5	100,0	0	0,0	5
M.Sc. Agric Economics (international)	4	100,0	0	0,0	0	0,0	0	0,0	1	25,0	3	75,0	4
M.Sc. Food Science	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
M.Sc. Ichthyology and Fisheries Management	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
Ph.D. Agric Economics	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
Ph.D. Food Science	0	0,0	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	1

TABLE 1 Breakdown of all 2011 bursary awards [n = 268] (cont.)

Field of study	Race								Gender				Total
	African		Coloured		Indian		White		Male		Female		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
Ph.D. Agronomy (international)	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
Ph.D. Forestry	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
Ph.D. Animal Production	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
Total	211	78,7	24	9,0	14	5,2	19	7,1	133	49,6	135	50,4	268

Table 1 indicates that 211 (78, 7%) African, 24 coloureds (9, 0%), 14 Indians (5, 2%) and 19 whites (7, 1%) were awarded bursaries to further their studies in undergraduate and postgraduate.

2.2 Analysis of the 2011 new intake

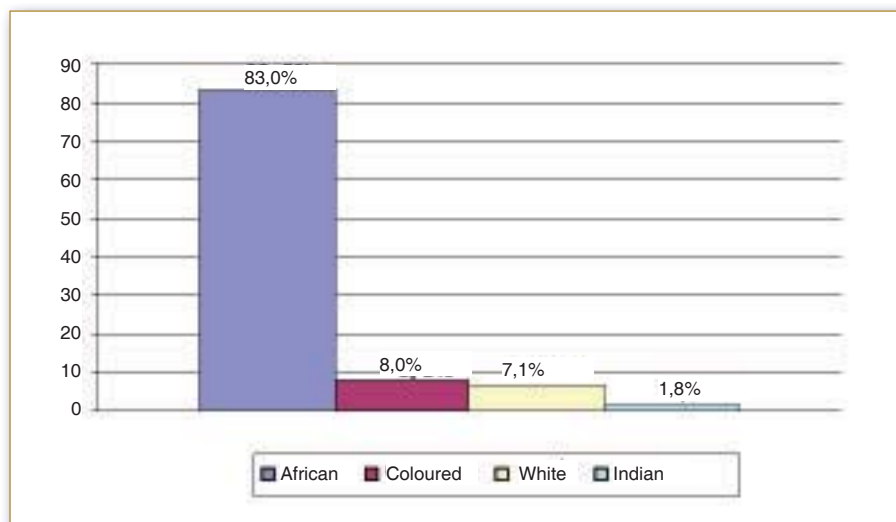
TABLE 2 Breakdown of new intake of the 2011 DAFF bursary holders [n = 112]

Field of study	Race								Gender				Total
	African		Coloured		Indian		White		Male		Female		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
B.V.Sc.	7	70,0	2	20,0	1	10,0	0	0,0	2	20,0	8	80,0	10
B.Sc. Bioresource Engineering	8	80,0	0	0,0	1	10,0	1	10,0	8	80,0	2	20,0	10
B.Sc. Viticulture and Oenology	3	100,0	0	0,0	0	0,0	0	0,0	1	33,3	2	66,7	3
B.Agric. Viticulture	1	25,0	2	50,0	0	0,0	1	25,0	2	50,0	2	50,0	4
B.Sc. Agric. Economics	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Agronomy	3	75,0	0	0,0	0	0,0	1	25,0	0	0,0	4	100,0	4
B.Sc. Aquaculture	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
B.Sc. Food Science	4	100,0	0	0,0	0	0,0	0	0,0	1	25,0	3	75,0	4
B.Sc. Forestry Science	4	100,0	0	0,0	0	0,0	0	0,0	2	50,0	2	50,0	4
B.Sc. Plant Pathology	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
B.Sc. Soil Science	4	100,0	0	0,0	0	0,0	0	0,0	2	50,0	2	50,0	4
B.Sc. Pasture Science	4	100,0	0	0,0	0	0,0	0	0,0	1	25,0	3	75,0	4
B.Sc. Genetics	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
Nat. Dipl. Oceanography	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
Nat. Dipl. Forestry	3	100,0	0	0,0	0	0,0	0	0,0	1	33,3	2	66,7	3
Nat. Dipl. Food Technology	5	100,0	0	0,0	0	0,0	0	0,0	2	40,0	3	60,0	5
Diploma in Agriculture	7	63,6	4	36,4	0	0,0	0	0,0	3	27,3	8	72,7	11
B.Tech. Food Technology	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Tech. Forestry	2	66,7	0	0,0	0	0,0	1	33,3	1	33,3	2	66,7	3
B. Tech Biotechnology	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
B.Sc. Microbiology and Biotechnology (Hons)	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
B.Sc. Food Science (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Environmental Management (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Plant Science (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
B.Sc. Agric Economics (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
M.Tech Animal Production	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
M.Tech Agriculture	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
M.Tech Food Technology	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
M.Sc. Animal Science	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
M.Sc. Soil Science	3	100,0	0	0,0	0	0,0	0	0,0	1	33,3	2	66,7	3

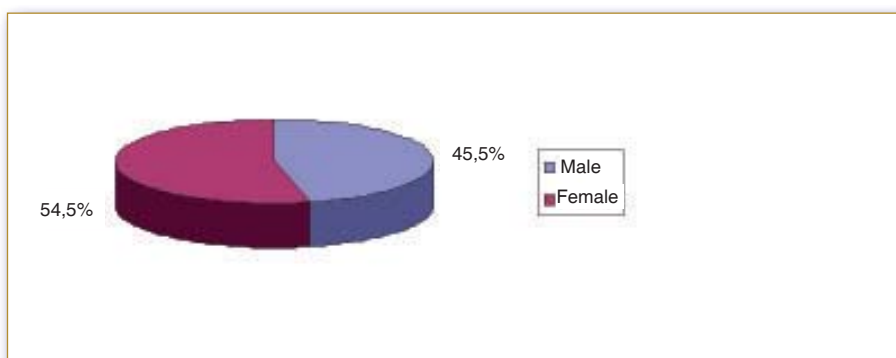
TABLE 2 Breakdown of new intake of the 2011 DAFF bursary holders [n = 112] (cont.)

Field of study	Race								Gender				Total
	African		Coloured		Indian		White		Male		Female		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
M.Sc. Wood Product Science	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
M.Sc. Economic Geology Science	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
M.Sc. Forestry Science	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
M.Sc. Marine Bio-Science	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
M.Sc. Aquatic Breeding (international)	1	100,0		0,0	0	0,0		0,0	0	0,0	1	100,0	1
M.Sc. Agronomy (international)	5	100,0	0	0,0	0	0,0	0	0,0	5	100,0	0	0,0	5
M.Sc. Agric Economics (international)	4	100,0		0,0		0,0		0,0	1	25,0	3	75,0	4
M.Sc. Food Science	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
Ph.D. Food Science	0	0,0	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	1
Ph.D. Forestry Science	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
Ph.D. Animal Production	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
Ph.D. Agronomy (international)	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
Total	93	83,0	9	8,0	2	1,8	8	7,1	51	45,5	61	54,5	112

Table 2 shows that 112 new beneficiaries were awarded bursaries for the 2011 academic year. A total of 75 were undergraduates and 38 postgraduates (B.Tech, Honours, Masters and Ph.D.). In terms of the allocations depicted in Graph 1, Africans are the major beneficiaries with 93 (83,0%), followed by Coloureds at 9 (8,0%), Whites at eight (7,1%) and Indians with two (1,8%). In terms of gender depicted in Graph 2, 54,5% of the beneficiaries are females and 45,5% are males.



GRAPH 1 Breakdown of new intake of DAFF bursary holders in terms of race for 2011 [n = 112]



GRAPH 2 Breakdown of new intake of DAFF bursary holders in terms of gender for 2011 [n = 112]

2.3 Provinces and municipalities where bursary beneficiaries are coming from

The 2011 DAFF bursary awards were advertised in the national print and electronic media in June 2010 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	52
Free State	09
Gauteng	18
KwaZulu-Natal	76
Limpopo	32
Mpumalanga	14
North West	20
Northern Cape	24
Western Cape	23
Total	268

Table 3 shows that the highest number of beneficiaries came from KwaZulu-Natal Province while the lowest number came from Free State.

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
Abaqulisi	1	Mbonambi	1
Aganang	1	Middelburg	2
Albert Luthuli	1	Middeldrift	1
Alfred Nzo	1	Mier	2
Amajuba	1	Mkhambathini	1
Apel	1	Mgquma	1
Bellville	1	Mogalakwena	2
Bojanala	1	Mopani	2
Buffalo City	3	Moqhaka	1
Butterworth	1	Moretele	4
Capricorn	4	Mosamane	1
City of Cape Town	3	Moses Kotane	3
City of Johannesburg	4	Motheo	1
City of Tygerberg	1	Motsweding	1
Cofimvaba	2	Mthatha	1
Concordia	2	Naledi	1
Dr JS Moroka	1	Ngaka Modiri Molema	2
King's Town	1	Nhlazatshe	1
Ekurhuleni	2	Nkobonkobe	1
Elliot	3	Nkomazi	6
Empangeni	7	Nongoma	7
Ethekhwini	11	Nyandeni	1
Gert Sibande	1	Oostenberg	4
Greater Giyani	1	O. R Tambo	1
Greater Taung	3	Overstrand	2
Greater Tzaneen	3	Peddie	1
Groblershoop	1	Phalaborwa	1
Hedeberg	1	Pietermaritzburg	27
Hessequa	1	Piketberg	1
Hibiscus	2	Polokwane	3
Hlabisa	1	Prieska	1
Intsikayethu	2	Qumbu	1
Jan Kempdorp	1	Ritchie	1
Jansenville	1	Sabie	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
Joe Gqabi	1	Sandton	5
Kabokweni	1	Setsoto	2
Kharais	1	Shwashweni	4
Khayelitsha	3	Sisonke	2
King Sabata Dalidyebo	2	Sol Platjie	3
Kuilsriver	1	Stellenbosch	4
Kwambonambi	1	Thembisile	1
Kuruman	1	Thulamela	1
Lady Frere	2	Trompsburg	1
Lepelle Nkumpi	1	Tshwane	4
Lephalale	1	Uitenhage	1
Letaba	1	UKhahlamba	1
Mabatlane	1	Umfoloji	5
Mabopane	1	Umgungundlovu	1
Madibeng	1	Umhlathuze	2
Mafikeng	4	Umkhanyakude	3
Mafube	1	Umswathi	1
Makhado	1	Umsunduzi	1
Makhuduthamaga	1	Umzimvubu	3
Malelane	1	Umzinyathi	1
Maluti-a Phofung	1	Umuziwabantu	1
Mangaung	2	Upington	8
Marafong	3	Uthukela	2
Margete	1	Uthungulu	1
Mathole	2	Vhembe	5
Mbashe	1	West Rand	1
Mbizana	3	Whitelesea	2
Mbombela	3	Wostenberg	1
Total	114	Total	154
Grand total			268

Table 4 shows that the majority (27) of bursary beneficiaries came from the Pietermaritzburg Municipality, followed by Ethekwini with 11.

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 2011 academic year

The Bursary Student Counsellor provided continuous student support and counselling for the bursary holders through e-mails, telephone and fax. Challenges that bursary holders were faced with during the 2011 academic year which the Bursary Student Counsellor handled, included but not limited to the following:

- Adjustment of lifestyle of bursary holders from village to big cities
- Theft
- Difficulty in grasping concepts in some modules (Physics and Chemistry)
- Late payment of book, meal and private accommodation allowances by institutions
- Additional tutorial classes clashing with certain lecturers
- University strikes
- Personal and family problems (e.g. relationships, pregnancy, divorce, financial, health, etc.)
- Lack of time management by bursary holders to cope with the high workload and preparations for examinations.

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 2011, 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 25 February and also on 08 November 2011. 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 2011 academic year
- The 2011/12 audited financial statement.
- Plan for 2012 academic year.

The dates, purpose, and outcomes of monitoring visits conducted in all institutions of higher learning and FET schools and colleges where DAFF bursary holders are attending are outlined in Table 5, 6, 7 and 8.

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
05 Feb.	University of Pretoria	To welcome and orientate new bursary holders	12	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 <p>•Benefits of the bursary award</p> <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>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>Meetings also helped bursary holders from the same institution to get to know each other and to form study groups</p>
09–11 Feb.	University of KwaZulu-Natal (Howard and Pietermaritzburg Campus)	To discuss DAFF's External Bursary Policy and procedures	41	2	
	Durban University of Technology	To confirm that the modules registered by students comply with requirements of registered fields of study	02	1	
23–25 Feb.	Cape Peninsula University of Technology (Cape Town and Bellville Campus)	To finalise the fees breakdown structure and discuss it with the students and the management of the universities before sending it to NSFAS for processing	09	2	
	University of Stellenbosch		36	2	
	Elsenburg College		07	2	
02 March	Nelson Mandela Metropolitan University		11	3	
16 March	University of Fort Hare		10	3	
17 March	Rhodes University		03	2	
23 March	University of Limpopo		04	2	
24 March	University of Venda		02	2	
12–13 April	University of Free State		09	3	
	Central University of Technology		09	3	
14 April	GADI		33	3	
05 May	University of Zululand		01	1	

TABLE 6 Analysis of combined bursary monitoring visits conducted

Date	Institution of learning visited	Purpose	No. of bursary holders attended	Duration of meetings (hours)	Outcome of meetings
12 Feb.	Combined meeting of bursary holders in KwaZulu-Natal institutions	To meet with all bursars studying at institutions in the KwaZulu-Natal, Gauteng and Western Cape Provinces to orientate them on the External Bursary Scheme Policy and Procedures and expectations from the Department. Outline the opportunities available to bursary holders within the DAFF upon completion of their studies. To outline services provided by Bursary Student Counselling Unit of DAFF. To address challenges that bursars are faced with To encourage information sharing and support among DAFF bursars and to have an opportunity to socialise and know each other. To orientate them on services provided by the institution	40	5	The following information was presented to bursary holders in all combined Bursary Monitoring Meetings conducted: <ul style="list-style-type: none"> External Bursary Policy and Procedures and obligations of bursary holders. Bursary Student Counselling and Support services available to DAFF bursary holders and accessibility thereof. Opportunities available for DAFF completing bursary holders which include but not limited to the following: <ul style="list-style-type: none"> – Experiential Training – Employment or Job seekers – Entrepreneurial Development Programme – Agri Export Technologists – Young Professional Development – International Training Programmes Challenges experienced by bursary holders were addressed and students were encouraged to work together as DAFF bursary holders to make their studies easy.
19 Feb.	Combined meeting of bursary holders in Gauteng institutions		37	5	
26 Feb.	Combined meeting of bursary holders in Western Cape institutions		43	5	

TABLE 7 Analysis of bursary monitoring visits conducted in Further Education and Training institutions hosting DAFF bursary holders

Date	Institution of learning visited	Purpose	No. of bursary holders attended	Duration of meetings (hours)	Outcome of meetings
03 May	Unicom Agric. High School	To meet with grade 11 and 12 learners to show case careers in agriculture, forestry and fisheries and bursary opportunities.	04	2	The following valuable information was presented to bursary holders, teachers and parents during the meeting: <ul style="list-style-type: none"> Overview of the implementation of DAFF's Career Awareness Programme since inception in 2004 to 2011. Careers in agriculture, forestry and fisheries which learners can follow upon completion of their Grade 12 studies. Administration process with regards to payment of school fees. Obligations and responsibilities of DAFF, Parents, and Learners with regards to High School Bursary. Student support and counselling services available for DAFF bursars and accessibility thereof. DAFF undergraduate bursary and what it covers Learners were encouraged and motivated to work very hard in order to meet entrance requirements for fields of study of their choice for 2012. Various challenges experienced by parents, teachers, and learners with regard to implementation of the programme were also addressed by DAFF officials during the meeting.
04 May	Northern Cape High		04	2	
05 May	PH Moeketse Agric. High		04	2	
17 May	Morgenzon Landbou Akademie	To meet with parents and schools to outline the responsibilities of DAFF, Parents, Learners with regards to high school bursary.	04	2	
20 May	Phandulwazi Agric. High		04	2	
28 May	Career Awareness Schools in Pietermaritzburg	To listen to bursary holders' challenges and to address them.	22	5	
31 May	Kuschke Agric. High School		04	2	

TABLE 8 Analysis of the one-on-one bursary monitoring meetings conducted for DAFF bursary holders during the 2011 academic year

Date	Institution of learning visited	Purpose	No. of bursary holders attended	Duration of meetings (hours)	Outcome of meetings
12 April	University of Free State	To conduct one-on-one meetings with each student to offer academic and counselling support To assess academic progress of each bursary holder To mobilise academic support within the institutions for struggling students To discuss placement opportunities or vacation work, experiential training and permanent employment for completing students	09	15–30 minutes per student	<p>The Bursary Student Counsellor offered counselling support to students and also addressed their problems which included but not limited to the following:</p> <ul style="list-style-type: none"> • High workload • Adjustment of lifestyle of bursary holders from village to big cities • Difficulty in grasping concepts in some modules (e.g. Physics and Chemistry) • Late payment of book, meal and private accommodation allowances by institutions • University strike • Theft • Personal and family problems (e.g. relationships, pregnancy, divorce, financial, health, etc.) • Lack of time management by bursary holders <p>Academic support for 25 students who performed badly in tutorials, assignments and monthly tests written was sourced within their institutions as a measure to mitigate the high failure rate.</p>
12 May	University of Pretoria Main Campus		20		
13 May	Tshwane University of Technology		04		
19 May	University of Pretoria Onderstepoort		11		
24–27 May	University of KwaZulu-Natal		39		

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 the institutions to help bursary holders to cope with difficulties in their studies. Based on the analysis of academic performance compiled during monitoring visits, 25 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 9 below shows the analysis of the 25 students:

TABLE 9 Analysis of bursary holders who received academic support [n = 25]

Name of institution	No. attending	Fields 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 Stellenbosch	2	B.Sc. Viticulture and Oenology	1st year	Oenology Mathematics	1	1
	3	B.Sc. Forestry Science (first-year students)	1st year	Biology Physics	3	0
	1	B.Sc. Agronomy	1st year	Biology Physics	1	0
University of KwaZulu-Natal	6	B.Sc. Bioresource Engineering (first-year students)	1st year	Mathematics Applied Mathematics Physics Engineering Drawing	2	4
University of Pretoria	9	B.V.Sc. (first-year students)	1st year	Chemistry Mathematics Biometry	3	6
	1	B.Sc. Plant Pathology (first-year student)	1st year	Physics Chemistry Mathematics	0	1
Nelson Mandela Metropolitan University	3	ND. Forestry (first-year students)	1st year	Forest Management Forest Engineering	2	1
Total					12	13

Table 9 shows that 25 bursary holders benefitted from academic support sourced with the University of Stellenbosch, University of KwaZulu-Natal and University of Pretoria. Extra classes were conducted between 16:00 and 18:00 from Tuesday to Thursday at the University of Stellenbosch and 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 students were put on summer vacation over and above extra classes which are conducted between 16:00 and 17:00 from Monday and Wednesday, while extra tutoring for students at Nelson Mandela Metropolitan University were conducted on Tuesdays and Thursdays between 15:00 and 16:00. Out of the 25 bursary holders who attended extra tutoring classes, 12 managed to pass their end-of-year examinations and 13 failed despite extra tutoring and mentoring. An analysis of bursary holders who attended extra tutoring and mentorship programme is provided in Table 9.

4. Performance of bursary holders for 2011

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 students' 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 learner's performance.

TABLE 10 Breakdown of performance of all 2011 bursary holders per fields of study [n = 264]

Field of study	No. passed	% passed	No. failed	% failed	Total
B.V.Sc.	16	72,7	6	27,3	22
B.Sc. Bioresource Engineering	17	77,3	5	22,7	22
B.Sc. Viticulture and Oenology	5	83,3	1	16,7	6
B.Agric. Viticulture	7	100,0	0	0,0	7
B.Sc. Agric. Economics	17	94,4	1	5,6	18
B.Sc. Agronomy	4	100,0	0	0,0	4
B.Sc. Aquaculture	1	100,0	0	0,0	1
B.Sc. Biotechnology	2	100,0	0	0,0	2
B.Sc. Food Science	10	100,0	0	0,0	10
B.Sc. Forestry Science	17	94,4	1	5,6	18
B.Sc. Plant Pathology	2	66,7	1	33,3	3
B.Sc. Soil Science	6	100,0	0	0,0	6
B.Sc. Pasture Science	6	100,0	0	0,0	6
B.Sc. Genetics	2	100,0	0	0,0	2
B.Com. Agri Business Management	1	100,0	0	0,0	1
Nat. Dipl. Oceanography	2	100,0	0	0,0	2
Nat. Dipl. Forestry	9	100,0	0	0,0	9
Nat. Dipl. Food Technology	13	100,0	0	0,0	13
Diploma in Agriculture	42	95,5	2	4,5	44
National Senior Certificate	28	96,6	1	3,4	29
B.Tech. Food Technology	1	100,0	0	0,0	1
B.Tech. Food and Consumer Science	1	100,0	0	0,0	1
B.Tech. Forestry	3	100,0	0	0,0	3
B.Tech Biotechnology	1	100,0	0	0,0	1
B.Sc. Microbiology and Biotechnology (Hons)	2	100,0	0	0,0	2
B.Sc. Food Science (Hons)	1	100,0	0	0,0	1
B.Sc. Environmental Management (Hons)	1	100,0	0	0,0	1
B.Sc. Plant Sciences (Hons)	1	100,0	0	0,0	1
B.Sc. Agric Economics (Hons)	1	100,0	0	0,0	1
M.Tech Animal Production	1	100,0	0	0,0	1
M.Tech Agriculture	1	100,0	0	0,0	1
M.Sc. Economic Geology Science	1	100,0	0	0,0	1
M.Sc. Animal Science	1	100,0	0	0,0	1
M.Sc. Soil Science	3	100,0	0	0,0	3
M.Sc. Wood Product Science	1	100,0	0	0,0	1

TABLE 10 Breakdown of performance of all 2011 bursary holders per fields of study [n = 264] (cont.)

Field of study	No. passed	% passed	No. failed	% failed	Total
M.Sc. Forestry Science	1	100,0	0	0,0	1
M.Sc. Marine Bio-Science	1	100,0	0	0,0	1
M.Sc. Aquatic Breeding (international)	1	100,0	0	0,0	1
M.Sc. Agronomy (international)	5	100,0	0	0,0	5
M.Sc. Agric Economics (international)	4	100,0	0	0,0	4
M.Sc. Food Science	1	100,0	0	0,0	1
M.Sc. Ichthyology and Fisheries Management	1	100,0	0	0,0	1
Ph.D. Agric Economics	1	100,0	0	0,0	1
Ph.D. Agronomy (international)	2	100,0	0	0,0	2
Ph.D. Forestry Science	1	100,0	0	0,0	1
Ph.D. Animal Production	1	100,0	0	0,0	1
Total	246	93,2	18	6,8	264

Table 10 indicates that out of 268 bursary holders for 2011, 264 wrote their end-of-year examinations including international bursary holders who wrote their mid-year examinations. Of this total, 246 (93, 2%) passed their end-of-year/mid-of-year examinations, while 18 (6, 8%) failed.

TABLE 11 Analysis of bursary holders who passed their 2011 end-of-year examinations per race and gender [n = 246]

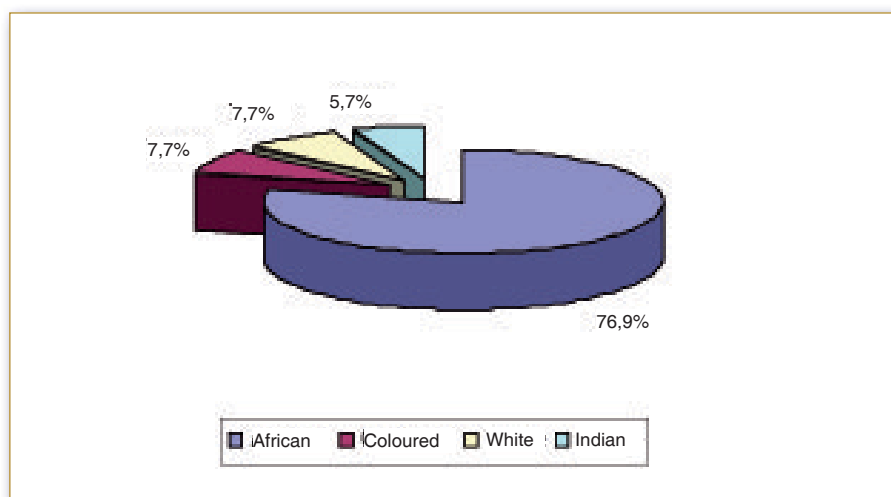
Field of study	Race								Gender				Total
	African		Coloured		Indian		White		Male		Female		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
B.V.Sc.	4	25,0	2	12,5	10	62,5	0	0,0	3	18,8	13	81,3	16
B.Sc. Bioresource Engineering	13	76,5	0	0,0	2	11,8	2	11,8	9	52,9	8	47,1	17
B.Sc. Viticulture and Oenology	5	100,0	0	0,0	0	0,0	0	0,0	3	60,0	2	40,0	5
B.Agric. Viticulture	1	14,3	4	57,1	0	0,0	2	28,6	3	42,9	4	57,1	7
B.Sc. Agric. Economics	15	88,2	1	5,9	1	5,9	0	0,0	10	58,8	7	41,2	17
B.Sc. Agronomy	3	75,0	0	0,0	0	0,0	1	25,0	0	0,0	4	100,0	4
B.Sc. Aquaculture	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
B.Sc. Biotechnology	2	100,0	0	0,0	0	0,0	0	0,0	0	0,0	2	100,0	2
B.Sc. Food Science	10	100,0	0	0,0	0	0,0	0	0,0	4	40,0	6	60,0	10
B.Sc. Forestry Science	10	58,8	2	11,8	0	0,0	5	29,4	10	58,8	7	41,2	17
B.Sc. Plant Pathology	1	50,0	0	0,0	1	50,0	0	0,0	0	0,0	2	100,0	2
B.Sc. Soil Science	6	100,0	0	0,0	0	0,0	0	0,0	3	50,0	3	50,0	6
B.Sc. Pasture Science	6	100,0	0	0,0	0	0,0	0	0,0	3	50,0	3	50,0	6
B.Sc. Genetics	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
B.Com. Agri Business Management	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
Nat. Dipl. Oceanography	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
Nat. Dipl. Forestry	9	100,0	0	0,0	0	0,0	0	0,0	6	66,7	3	33,3	9
Nat. Dipl. Food Technology	12	92,3	1	7,7	0	0,0	0	0,0	5	38,5	8	61,5	13
Diploma in Agriculture	33	78,6	9	21,4	0	0,0	0	0,0	26	61,9	16	38,1	42
National Senior Certificate	24	85,7	0	0,0	0	0,0	4	14,3	10	35,7	18	64,3	28
B.Tech. Food Technology	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Tech. Food and Consumer Science	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
B.Tech. Forestry	2	66,7	0	0,0	0	0,0	1	33,3	1	33,3	2	66,7	3
B.Tech Biotechnology	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
B.Sc. Microbiology and Biotechnology (Hons)	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
B.Sc. Food Science (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1

TABLE 11 Analysis of bursary holders who passed their 2011 end-of-year examinations per race and gender [n = 246] (cont.)

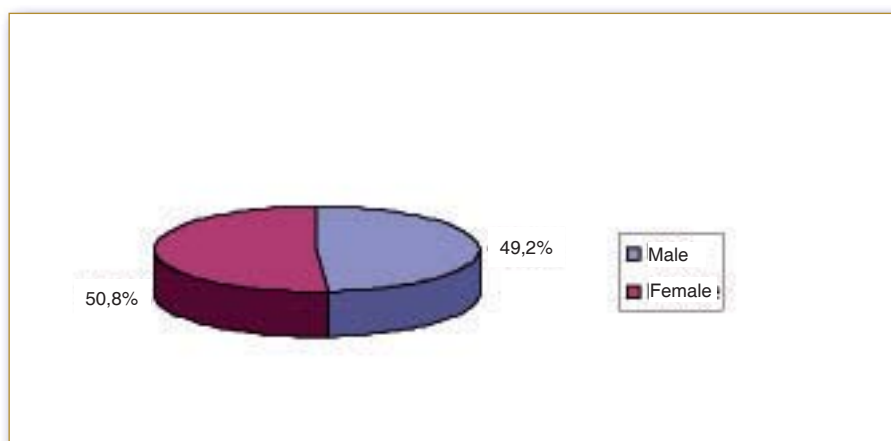
Field of study	Race								Gender				Total
	African		Coloured		Indian		White		Male		Female		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
B.Sc. Environmental Management (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Plant Sciences (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
B.Sc. Agric Economics (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
M.Tech Animal Production	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
M.Tech Agriculture	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
M.Sc. Economic Geology Science	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
M.Sc. Animal Science	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
M.Sc. Soil Science	3	100,0	0	0,0	0	0,0	0	0,0	2	66,7	1	33,3	3
M.Sc. Wood Product Science	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
M.Sc. Forestry Science	0	0,0	0	0,0	0	0,0	1	100,0	1	100,0	0	0,0	1
M.Sc. Marine Bio-Science	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
M.Sc. Aquatic Breeding (international)	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
M.Sc. Agronomy (international)	5	100,0	0	0,0	0	0,0	0	0,0	5	100,0	0	0,0	5
M.Sc. Agric Economics (international)	4	100,0	0	0,0	0	0,0	0	0,0	1	25,0	3	75,0	4
M.Sc. Food Science	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
M.Sc. Ichthyology and Fisheries Management	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
Ph.D. Agric Economics	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
Ph.D. Agronomy (international)	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
Ph.D. Forestry Science	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
Ph.D. Animal Production	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
Total	194	78,9	19	7,7	14	5,7	19	7,7	121	49,2	125	50,8	246

Table 11 provides the racial breakdown of bursary beneficiaries who passed their 2011 end-of-year examinations per field of study. The data reflected on the table indicates that 194 Africans (78,9%), 19 Coloureds (7,7%), 14 Indians (5,7%), and 19 Whites (7,7%) passed their final examinations. In terms of race.

Graph 3 below shows that 78,9% of the beneficiaries who passed were Africans. The other racial groups make up the remaining 21,1%.



GRAPH 3 Breakdown of all bursary holders who passed their 2011 end-of-year examinations in terms of race [n = 246]



GRAPH 4 Breakdown of all bursary holders who passed their 2011 end-of-year examinations in terms of gender [n = 246]

The above graph demonstrates that 50,8% of the beneficiaries who passed were females and 49,2% were males.

TABLE 12 Analysis of bursary holders who failed their 2011 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.	5	83,3	1	16,7	0	0,0	0	0,0	1	16,7	5	83,3	6
B.Sc. Bioresource Engineering	5	100,0	0	0,0	0	0,0	0	0,0	4	80,0	1	20,0	5
B.Sc. Viticulture and Oenology	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
B.Sc. Agric Economics	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Plant Pathology	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Forestry Science	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
Diploma in Agriculture	2	100,0	0	0,0	0	0,0	0	0,0	2	100,0	0	0,0	2
National Senior Certificate	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
Total	17	94,4	1	5,6	0	0,0	0	0,0	9	50,0	9	50,0	18

Table 12 shows that 18 bursary beneficiaries failed their end-of-year examinations. Of these, seventeen (94,4%) are Africans and one (5,6%) is Coloured. The highest failure rate was recorded in B.V.Sc. (6) and B.Sc. Bioresource Engineering (5).

TABLE 13 Analysis of the 2011 performance of all bursary holders per institution of higher learning [n = 264]

Institutions	No passed	% passed	No failed	% failed	Total
University of Pretoria	26	78,8	7	21,2	33
University of Stellenbosch	33	94,3	2	5,7	35
University of Kwazulu-Natal	33	86,8	6	15,8	38
University of Free State	9	100,0	0	0,0	9
University of Fort Hare	9	100,0	0	0,0	9
University of Limpopo	6	100,0	0	0,0	6
University of Zululand	1	100,0	0	0,0	1
University of Venda	2	100,0	0	0,0	2
University of Witwatersrand	2	100,0	0	0,0	2
University of Johannesburg	1	100,0	0	0,0	1
University of South Africa	1	100,0	0	0,0	1
Rhodes University	3	100,0	0	0,0	3
China Agricultural University	11	100,0	0	0,0	11
Nanjing University	1	100,0	0	0,0	1
Nelson Mandela Metropolitan University	12	100,0	0	0,0	12
Tshwane University of Technology	8	100,0	0	0,0	8

TABLE 13 Analysis of the 2011 performance of all bursary holders per institution of higher learning [n = 264] (cont.)

Institutions	No passed	% passed	No failed	% failed	Total
Cape Peninsula University of Technology	8	100,0	0	0,0	8
Durban University of Technology	2	100,0	0	0,0	2
Central University of Technology	1	100,0	0	0,0	1
Elsenburg College	7	100,0	0	0,0	7
Grootfontein Agricultural Dev Institute	42	95,5	2	4,5	44
Career Awareness Schools	28	96,6	1	3,4	29
Total	246	93,2	18	6,8	264

Table 13 shows that 264 bursary holders passed their end-of-year examinations and 18 failed. The highest failure rate was recorded at the University of Pretoria (7), followed by the University of KwaZulu-Natal (6) and the University of Stellenbosch and GADI with (2) respectively.

4.2 Analysis of discontinuation of studies for 2011 bursary holders

Despite the comprehensive academic support given to bursary holders in 2011, four students discontinued their studies as shown in the table below.

TABLE 14 Analysis of exclusion and discontinuation of studies by bursary holders for the 2011 academic year [n = 4]

Field of study	No. excluded from studies: poor performance	No. terminated: not coping with the study course	Total discontinued studies
B.V.Sc.	0	1	1
B.Sc. Food Science	0	1	1
Nat. Dipl. Forestry	0	1	1
Ph.D. Food Science	0	1	1
Total	0	4	4

Table 14 shows that one bursary holder in B.V.Sc. at the University of Pretoria terminated studies in the first semester due to marital problems while three in B.Sc. Food Science (2nd level) at the University of Pretoria, Nat. Dipl. Forestry (1st level) at Nelson Mandela Metropolitan University and Ph.D. Food Science (1st level) at the University of Stellenbosch terminated their studies in the second semester because they could not cope with their studies.

5 Analysis of bursary holders who completed their studies in 2011

The major success indicator of the External Bursary Scheme is the number of bursary holders who successfully complete their studies and secure relevant employment. During the 2011 academic year, 54 bursary holders successfully completed their studies. The analysis of those who completed is given below.

TABLE 15 Analysis of bursary holders who completed their studies per field of study, race and gender in 2011 [n = 52]

Field of study	Race								Gender				Total
	African		Coloured		Indian		White		Male		Female		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
B.V.Sc.	1	33,3	0	0,0	2	66,7	0	0,0	1	33,3	2	66,7	3
B.Agric Viticulture	0	0,0	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	1
B.Sc. Bioresource Engineering	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Agric Economics	3	75,0	0	0,0	1	25,0	0	0,0	4	100,0	0	0,0	4
B.Sc. Biotechnology	2	100,0	0	0,0	0	0,0	0	0,0	0	0,0	2	100,0	2
B.Sc. Food Science	2	100,0	0	0,0	0	0,0	0	0,0	1	50,0	1	50,0	2
B.Sc. Soil Science	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Agronomy	2	100,0	0	0,0	0	0,0	0	0,0	0	0,0	2	100,0	2
B.Sc. Pasture Science	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1

TABLE 15 Analysis of bursary holders who completed their studies per field of study, race and gender in 2011 [n = 52] (cont.)

Field of study	Race								Gender				Total
	African		Coloured		Indian		White		Male		Female		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
B.Sc. Forestry Science	2	40,0	2	40,0	0	0,0	1	20,0	4	80,0	1	20,0	5
Nat. Dipl. Forestry	5	83,3	0	0,0	0	0,0	1	16,7	6	100,0	0	0,0	6
Nat. Dipl. Food Technology	5	100,0	0	0,0	0	0,0	0	0,0	1	20,0	4	80,0	5
B.Tech. Food Technology	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Tech. Biotechnology	1	100,0	0	0,0	0	0,0	0	0,0	0	0,0	1	100,0	1
B. Tech. Forestry	2	66,7	0	0,0	0	0,0	1	33,3	1	33,3	2	66,7	3
Diploma in Agriculture	6	75,0	2	25,0	0	0,0	0	0,0	6	75,0	2	25,0	8
B.Sc. Microbiology and Biotechnology (Hons)	2	100,0	0	0,0	0	0,0	0	0,0	0	0,0	2	100,0	2
B.Sc. Food Science (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Environmental Management (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
B.Sc. Plant Sciences (Hons)	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
M.Sc. Ichthyology and Fisheries Management	1	100,0	0	0,0	0	0,0	0	0,0	1	100,0	0	0,0	1
Total	41	78,8	5	9,6	3	5,8	3	5,8	32	61,5	20	38,5	52

Table 15 indicates that 52 bursary beneficiaries, including postgraduate and undergraduate students, successfully completed their studies in 2011. In terms of racial breakdown, 41 (78,8%) of the beneficiaries were Africans, five (9,6%) were Coloureds, three (5,8%) were Indians and three (5,8%) were Whites. In terms of gender, 32 males (61,5%) and 20 females (38,5%) completed their studies. The highest number of completion was recorded in the Diploma in Agriculture with 8 followed by the Nat. Dipl. In Forestry with six followed by B.Sc. Forestry and the Nat. Dipl. in Food Technology with six beneficiaries each.

TABLE 16 Analysis of the employment status of bursary holders who completed their studies per field of study, race and gender as at 31/03/2012 [n = 52]

Field of study	Race				Gender		Total	Current status			
	African	Coloured	Indian	White	Male	Female		No. employed	No. unem- ployed	Company	No. furthering studies (post- gradu- ate)
	No.	No.	No.	No.	No.	No.		No.	No.	Name	
B.V.Sc.	1	0	2	0	1	2	3	3	0	Department of Agriculture, Forestry and Fisheries (3)	–
B.Agric Viticulture	0	1	0	0	0	1	1	1	0	Simonsvlei Wine Cellar Stellenbosch	–
B.Sc. Bioresource Engineering	1	0	0	0	0	1	1	1	0	Department of Agriculture, Forestry and Fisheries	–
B.Sc. Agric. Economics	3	0	1	0	4	0	4	3	0	DAFF Internship Programme (3)	1
B.Sc. Biotechnology	2	0	0	0	0	2	2	0	0	–	2
B.Sc. Food Science	2	0	0	0	1	1	2	1	0	DAFF Internship Programme	1
B.Sc. Soil Science	1	0	0	0	1	0	1	1	0	DAFF Internship Programme	–
B.Sc. Agronomy	2	0	0	0	0	2	2	1	0	DAFF Internship Programme	1

TABLE 16 Analysis of the employment status of bursary holders who completed their studies per field of study, race and gender as at 31/03/2012 [n = 52] (cont.)

Field of study	Race				Gender		Total	Current status			
	African	Coloured	Indian	White	Male	Female		No. employed	No. unemployed	Company	No. furthering studies (post-graduate)
	No.	No.	No.	No.	No.	No.		No.	No.	Name	
B.Sc. Pasture Science	1	0	0	0	1	0	1	0	0	-	1
B.Sc. Forestry Science	2	2	0	1	4	1	5	3	0	Syndicate Database Solutions (Pty)Ltd Midrand DAFF Internship Programme (2)	2
Nat. Dipl. Food Technology	5	0	0	0	1	4	5	4	0	Tognaat Hullett Sugar Durban, Pick n Pay, National Brand Isando, DAFF Internship Programme	1
Nat. Dipl. Forestry	5	0	0	1	6	0	6	1	0	Mabandake Development Pietermaritzburg	5
B.Tech. Food Technology	1	0	0	0	1	0	1	1	0	Tiger Brands Cape Town	
B.Tech. Biotechnology	1	0	0	0	0	1	1	1	0	ARC Stellenbosch	-
B.Tech. Forestry	2	0	0	1	1	2	3	2	0	DAFF Internship Programme	1
Dipl. in Agriculture	6	2	0	0	6	2	8	1	7	DAFF Internship Programme	-
B.Sc. Microbiology and Biotechnology (Hons)	2	0	0	0	0	2	2	2	0	DAFF Internship Programme	-
B.Sc. Food Science (Hons)	1	0	0	0	1	0	1	1	0	Clover Roodepoort	-
B.Sc. Environmental Management (Hons)	1	0	0	0	1	0	1	0	0	-	1
B.Sc. Plant Sciences (Hons)	1	0	0	0	1	0	1	1	0	NRF Internship Programme	-
M.Sc. Ichthyology and Fisheries Management	1	0	0	0	1	0	1	0	0	-	1
Total	41	5	3	3	31	21	52	28	07		17

Table 16 indicates the employment status, as at 31 March 2012, of bursary holders who completed their studies at the end of the 2011 academic year. Out of 52 bursary holders who completed their studies 28 secured employment, 7 did not secure employment and 17 furthered their studies (postgraduate).

6. Analysis of level of study of the 2011 bursary holders

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

TABLE 17 Analysis of the level of study of the 2011 bursary holders [n = 268]

Field of study	Year of study							Total duration
	1	2	3	4	5	6	Total	
B.V.Sc.	9	0	0	4	7	3	23	6
B.Sc. Bioresource Engineering	8	5	5	4	0	0	22	4
B.Sc. Viticulture and Oenology	3	2	1	0	0	0	6	4
B.Agric. Viticulture	3	3	1	0	0	0	7	3
B.Sc. Agric. Economics	1	2	7	8	0	0	18	4
B.Sc. Agronomy	1	0	1	2	0	0	4	4
B.Sc. Aquaculture	1	0	0	0	0	0	1	4
B.Sc. Biotechnology	0	0	2	0	0	0	2	3
B.Sc. Food Science	1	1	6	3	0	0	11	4
B.Sc. Forestry Science	4	0	6	8	0	0	18	4
B.Sc. Plant Pathology	2	1	0	0	0	0	3	4
B.Sc. Soil Science	0	3	2	1	0	0	6	4
B.Sc. Pasture Science	0	2	3	1	0	0	6	4
B.Sc. Genetics	2	0	0	0	0	0	2	4
B.Com. Agri Business Management	1	0	0	0	0	0	1	4
Nat. Dipl. Oceanography	2	0	0	0	0	0	2	3
Nat. Dipl. Forestry	3	0	7	0	0	0	10	3
Nat. Dipl. Food Technology	1	4	8	0	0	0	13	3
Diploma in Agriculture	9	22	13	0	0	0	44	3
National Senior Certificate	29	0	0	0	0	0	29	1
B.Tech. Food Technology	1	0	0	0	0	0	1	1
B.Tech. Food and Consumer Science	1	0	0	0	0	0	1	2
B.Tech. Forestry	3	0	0	0	0	0	3	1
B.Tech. Biotechnology	1	0	0	0	0	0	1	1
B.Sc. Microbiology and Biotechnology (Hons)	2	0	0	0	0	0	2	1
B.Sc. Food Science (Hons)	1	0	0	0	0	0	1	1
B.Sc. Environmental Management (Hons)	1	0	0	0	0	0	1	1
B.Sc. Plant Sciences (Hons)	1	0	0	0	0	0	1	1
B.Sc. Agric Economics (Hons)	1	0	0	0	0	0	1	1
M.Tech Animal Production	1	0	0	0	0	0	1	2
M.Tech Agriculture	1	0	0	0	0	0	1	2
M.Sc. Economic Geology Science	1	0	0	0	0	0	1	2
M.Sc. Animal Science	1	0	0	0	0	0	1	2
M.Sc. Soil Science	2	1	0	0	0	0	3	2
M.Sc. Wood Product Science	1	0	0	0	0	0	1	2
M.Sc. Forestry Science	1	0	0	0	0	0	1	2
M.Sc. Marine Bio-Science	0	1	0	0	0	0	1	2
M.Sc. Agric Economics (international)	4	0	0	0	0	0	4	2
M.Sc. Aquatic Breeding (international)	1	0	0	0	0	0	1	2
M.Sc. Agronomy (international)	5	0	0	0	0	0	5	2
M.Sc. Food Science	1	0	0	0	0	0	1	2
M.Sc. Ichthyology and Fisheries Management	0	0	1	0	0	0	1	2
Ph.D. Agric Economics	0	1	0	0	0	0	1	3
Ph.D. Food Science	1	0	0	0	0	0	1	3

TABLE 17 Analysis of the level of study of the 2011 bursary holders [n = 268] (cont.)

Field of study	Year of study							Total duration
	1	2	3	4	5	6	Total	
Ph.D. Agronomy (international)	2	0	0	0	0	0	2	3
Ph.D. Forestry Science	1	0	0	0	0	0	1	3
Ph.D. Animal Production	1	0	0	0	0	0	1	3
Total	116	48	63	31	7	3	268	

Table 17 shows that 116 bursary beneficiaries were registered at first-year level, 63 at third-year level, 48 at second-year level and 31 at fourth-year level. Seven bursary holders in B.V.Sc. were registered at fifth level and 3 at sixth-year (final year).

7. Revenue and expenditure for 2011

The approved annual budget for the scheme is R8,3 million. For the 2011 academic year, R4,9 million additional funding was sourced from line function directorates to bring the total budget for 2011 to R13,2 million. R10,5 million was transferred and administered by NSFAS and R2,7 million was kept within the budget of the Directorate: Sector Education and Training to pay agricultural colleges, high schools and international universities as they are not part of the broad mandate of NSFAS. The analysis of expenditure is outlined in tables 18 to 20 below:

TABLE 18 Analysis of expenditure according to fields of study registered by all bursary holders for 2011 [n = 268]

Field of study	Race				Total (R)
	African	Coloured	Indian	White	
	Amount (R)	Amount (R)	Amount (R)	Amount (R)	
AB.V.Sc.	694 840,00	276 710,00	800 920,00	0,00	1 772 470,00
B.Sc. Bioresource Engineering	123 3484,50	0,00	122 680,00	145 350,00	1 501 514,50
B.Sc. Viticulture and Oenology	467 216,06	0,00	0,00	0,00	467 216,06
B. Agric. Viticulture	42 520,00	162,462,00	45 186,00	42 962,00	293 130,00
B.Sc. Agric. Economics	972 572,41	38,524,64	64 185,00	0,00	1 075 282,05
B.Sc. Agronomy	160 825,00	0,00	0,00	80 934,00	241 759,00
.Sc. Aquaculture	0,00	0,00	0,00	77 420,00	77 420,00
B.Sc. Biotechnology	114 280,00	0,00	0,00	0,00	114 280,00
B.Sc. Food Science	747,559,04	0,00	0,00	0,00	747 559,40
B.Sc. Forestry Science	773 117,83	145 774,92	0,00	410 046,97	1 328 939,72
BB.Sc. Plant Pathology	137 865,00	0,00	40 125,00	0,00	177990,00
B.Sc. Soil Science	393 322,00	0,00	0,00	0,00	393 322,00
B.Sc. Pasture Science	341 152,00	0,00	0,00	0,00	341 152,00
B.Sc. Genetics	130 630,00	0,00	0,00	0,00	130 630,00
B.Com. Agri Business Management	78 020,00	0,00	0,00	0,00	78 020,00
Nat. Dipl. Oceanography	95363,00	0,00	0,00	0,00	95 363,00
Nat. Dipl. Forestry	505 848,26	0,00	0,00	59 080,00	564 928,26
Nat. Dipl. Food Technology	322 939,46	16 518,01	0,00	0,00	339457,47
Diploma in Agriculture	110 9219,00	276 515,00	0,00	0,00	1385 734,00
National Senior Certificate	324 100,00	39 200,00	0,00	45 000,00	408 300,00
B.Tech. Food Technology	34 344,00	0,00	0,00	0,00	34 344,00
B.Tech. Food and Consumer Science	6 275,00	0,00	0,00	0,00	6 275,00
B.Tech. Forestry	60 437,15	0,00	0,00	15 589,40	76 026,55
B.Tech. Biotechnology	19 318,54	0,00	0,00	0,00	19 318,54
B.Sc. Microbiology and Biotechnology (Hons)	56 820,00	0,00	0,00	0,00	56 820,00

TABLE 18 Analysis of expenditure according to fields of study registered by all bursary holders for 2011 [n = 268] (cont.)

Field of study	Race				Total (R)
	African	Coloured	Indian	White	
	Amount (R)	Amount (R)	Amount (R)	Amount (R)	
B.Sc. Food Science (Hons)	24 800,00	0,00	0,00	0,00	24800,00
B.Sc. Environmental Management (Hons)	8000,00	0,00	0,00	0,00	8 000,00
B.Sc. Plant Sciences (Hons)	23 450,00	0,00	0,00	0,00	23 450,00
B.Sc. Agric Economics (Hons)	24 690,00	0,00	0,00	0,00	24 690,00
M.Tech Animal Production	1 307,00	0,00	0,00	0,00	1 307,00
M.Tech Food Technology	0,00	0,00	0,00	0,00	0,00
M.Tech Agriculture	14 310,00	0,00	0,00	0,00	14 310,00
M.Sc. Economic Geology Science	0,00	0,00	0,00	31 821,00	31 821,00
M.Sc. Animal Science	24 330,00	0,00	0,00	0,00	24 330,00
M.Sc. Soil Science	45 486,00	0,00	0,00	0,00	45 486,00
M.Sc. Wood Product Science	0,00	0,00	0,00	34 080,00	34 080,00
M.Sc. Forestry Science	0,00	0,00	0,00	27 352,00	27 352,00
M.Sc. Marine Bio-Science	13 090,00	0,00	0,00	0,00	13 090,00
M.Sc. Aquatic Breeding (international)	38 480,00	0,00	0,00	0,00	38 480,00
M.Sc. Agronomy (international)	467 729,10	0,00	0,00	0,00	467 729,10
M.Sc. Agric Economics (international)	374 183,28	0,00	0,00	0,00	374 183,28
M.Sc. Food Science	9 588,00	0,00	0,00	0,00	9 588,00
M.Sc. Ichthyology and Fisheries Management	10 000,00	0,00	0,00	0,00	10 000,00
Ph.D. Agric Economics	22 481,00	0,00	0,00	0,00	22 481,00
Ph.D. Food Science	0,00	20 452,00	0,00	0,00	20 452,00
Ph.D. Agronomy (international)	199 091,64	0,00	0,00	0,00	199 091,64
Ph.D. Forestry Science	20 452,00	0,00	0,00	0,00	20 452,00
Ph.D. Animal Production	19 250 00	0,00	0,00	0,00	19 250,00
Total	10 162 786,63	976 156,57	1 073 096,00	969 635,37	13 181 674,57

Table 18 shows that R13 181 674, 57 was spent on the 2011 bursary beneficiaries. The highest expenditure of R1 772 470, 00 was recorded for B.V.Sc.

TABLE 19 Analysis of the 2011 expenditure for all bursary holders according to gender [n = 268]

Field of study	Male: Amount (R)	Female: Amount (R)	Total (R)
B.V.Sc.	314 630,00	1 457 840,00	1 772 470,00
B.Sc. Bioresource Engineering	929 579,50	571 935,00	1 501 514,50
B.Sc. Viticulture and Oenology	230 476,19	236 739,87	467 216,06
B.Agric. Viticulture	131 552,00	161 578,00	293 130,00
B.Sc. Agric. Economics	639 558,55	435 723,50	1 075 282,05
B.Sc. Agronomy	0,00	241 759,00	241 759,00
B.Sc. Aquaculture	77 420,00	0,00	77 420,00
B.Sc. Biotechnology	0,00	114 280,00	114 280,00
B.Sc. Food Science	309 107,97	438 451,43	747 559,40
B.Sc. Forestry Science	798 513,33	530 426,39	1 328 939,72
B.Sc. Plant Pathology	75 680,00	102 310,00	177 990,00
B.Sc. Soil Science	163 412,00	229 910,00	393 322,00
B.Sc. Pasture Science	177 018,00	164 134,00	341 152,00

TABLE 19 Analysis of the 2011 expenditure for all bursary holders according to gender [n = 268] (cont.)

Field of study	Male: Amount (R)	Female: Amount (R)	Total (R)
B.Sc. Genetics	64 030,00	66 600,00	130 630,00
B.Com. Agri Business Management	0,00	78 020,00	78 020,00
Nat. Dipl. Oceanography	46 601,00	48 762,00	95 363,00
Nat. Dipl. Forestry	408 413,41	156 514,85	564 928,26
Nat. Dipl. Food Technology	141 461,01	197 996,46	339 457,47
Diploma in Agriculture	904 320,00	481 414,00	1 385 734,00
National Senior Certificate	261 690,00	146 610,00	408 300,00
B.Tech. Food Technology	34 344,00	0,00	34 344,00
B.Tech. Food and Consumer Science	0,00	6 275,00	6 275,00
B.Tech. Forestry	15 589,40	60 437,15	76 026,55
B.Tech. Biotechnology	0,00	19 318,54	19 318,54
B.Sc. Microbiology and Biotechnology (Hons)	0,00	56 820,00	56 820,00
B.Sc. Food Science (Hons)	24 800,00	0,00	24 800,00
B.Sc. Environmental Management (Hons)	8 000,00	0,00	8 000,00
B.Sc. Plant Sciences (Hons)	23 450,00	0,00	23 450,00
B.Sc. Agric Economics (Hons)	0,00	24 690,00	24 690,00
M.Tech Animal Production	0,00	1 307,00	1 307,00
M.Tech Agriculture	14 310,00	0,00	14 310,00
M.Sc. Economic Geology Science	31 821,00	0,00	31 821,00
M.Sc. Animal Science	24 330,00	0,00	24 330,00
M.Sc. Soil Science	17 759,00	2 7727,00	45 486,00
M.Sc. Wood Product Science	34 080,00	0,00	34 080,00
M.Sc. Forestry Science	27 352,00	0,00	27 352,00
M.Sc. Marine Bio-Science	13 090,00	0,00	13 090,00
M.Sc. Aquatic Breeding (international)	0,00	38 480,00	38 480,00
M.Sc. Agronomy (international)	467 729,10	0,00	467 729,10
M.Sc. Agric Economics (international)	93 545,82	280 637,46	374 183,28
M.Sc. Food Science	0,00	9 588,00	9 588,00
M.Sc. Ichthyology and Fisheries Management	10 000,00	0,00	10 000,00
Ph.D. Agric Economics	0,00	22 481,00	22 481,00
Ph.D. Food Science	0,00	20 452,00	20 452,00
Ph.D. Agronomy (international)	99 545,82	99 545,82	199 091,64
Ph.D. Forestry Science	20 452,00	0,00	20 452,00
Ph.D. Animal Production	19 250,00	0,00	19 250,00
Total	6 652 911,10	6 528 763,47	13 181 674,57

Table 19 shows that the bursary expenditure for 2011 was R6 652 911,10 for female beneficiaries and R6 528 763, 47 for males.

TABLE 20 Breakdown of the 2011 expenditure for all bursary holders according to institutions [n = 268]

Institution	No. of awards	Amount spent (R)
Cape Peninsula University of Technology	8	258 355,00
Central University of Technology	1	1 307,00
Durban University of Technology	2	3 380,00
Tshwane University of Technology	8	195 615,10
Elsenburg College of Agriculture	7	293 130,00
Grootfontein College of Agriculture	44	1 385 734,00
China Agricultural University	11	1 041 004,02
Nanjing University	1	38 480,00

TABLE 20 Breakdown of the 2011 expenditure for all bursary holders according to institutions [n = 268] (cont.)

Institution	No. of awards	Amount spent (R)
Nelson Mandela Metropolitan University	13	640 954,81
University of Fort Hare	9	470 923,00
University of Free State	9	627 634,00
University of Johannesburg	1	51 718,00
University of KwaZulu-Natal	39	2 478 869,55
University of Limpopo	6	212 153,00
University of Pretoria	35	2 402 780,00
Rhodes University	3	100 510,00
University of Stellenbosch	36	2 370 237,09
University of South Africa	1	8 000,00
University of Venda	2	85 490,00
University of Witwatersrand	2	56 820,00
University of Zululand	1	50 280,00
Alexandra High School	3	37 780,00
PH Moeketsi Agric. School	2	30 000,00
Phandulwazi Agric. High School	2	30 000,00
Oakdale Agricultural High School	2	30 000,00
Unicorn Agric. High School	2	30 000,00
Northern Cape High School	2	30 000,00
Northern Cape Agricultural High School	3	45 000,00
Kuschke Agricultural High School	2	29 020,00
Morgenzon Landbou Akademie	2	30 000,00
Orange Zicht High	2	24 200,00
Greytown High School	1	15 000,00
Heritage Academy	2	30 000,00
Linpark High School	1	15 000,00
Marion High School	2	18 900,00
Pietermaritzburg Girls High School	1	13 400,00
Total	268	13 181 674,57

Table 20 shows that the total expenditure incurred at various institutions was R13 181 674,94. The highest expenditure recorded was R2 478 869,55 at the University of KwaZulu-Natal, followed by R2 241 937,00 at the University of Pretoria and R2 237 0237 at the University of Stellenbosch.

8. Summary of the beneficiaries of the external bursary scheme from 2004 to 2011

The tracking of all bursary beneficiaries who participated and benefitted 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 benefitted from the scheme from its inception in 2004 to 2011.

TABLE 21 Summary of beneficiaries of the External Bursary Scheme from 2004 to 2011 [n =982]

Field of study	Year								Total
	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	
B.V.Sc.	18	16	7	6	6	9	4	10	76
B.Sc.Viticulture and Oenology	12	6	7	3	9	1	2	3	43
B.Agric Viticulture	10	9	2	1	3	1	2	4	32

TABLE 21 Summary of beneficiaries of the External Bursary Scheme from 2004 to 2011 [n =982] (cont.)

Field of study	Year								Total
	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	
B.Sc. Bioresource Engineering	4	8	9	8	8	5	6	10	58
B.Sc. Agric Economics	0	10	7	3	19	10	0	1	50
B.Com. Agric Economics	0	0	0	0	0	0	1	0	1
B.Sc. Biotechnology	0	0	1	6	10	0	0	0	17
B.Sc. Food Science	0	4	3	3	6	6	3	4	29
B.Sc. Genetics	0	0	0	0	0	1	0	2	3
B.Sc. Plant Pathology	0	0	0	0	0	0	1	2	3
B.Sc. Agronomy	0	0	0	0	0	0	0	4	4
B.Sc. Aquaculture	0	0	0	0	0	0	0	1	1
B.Sc. Marine Biology	0	0	0	0	0	0	0	0	0
at. Dipl. Veterinary Technology	6	0	0	0	0	0	0	0	6
Diploma in Agriculture	7	4	10	11	10	24	22	11	99
National Senior Certificate	60	11	45	60	1	0	14	0	191
Agri-management Development Programme	0	24	35	24	24	30	0	0	137
B.Tech. Food Technology	5	6	6	2	2	6	1	1	29
B.Tech. Food Consumer Science	5	0	0	0	0	0	1	0	6
B.Tech. Biotechnology	0	0	0	0	0	0	0	1	1
B.Tech. Agric Management	0	0	0	0	0	1	0	0	1
NB.Tech. Engineering	0	6	0	0	0	1	0	0	7
B.Tech. Forestry	0	0	0	0	0	0	3	3	6
B.Tech. Environmental Management	0	0	0	0	0	0	0	0	0
Honours	0	4	2	2	7	8	0	7	30
M.Tech. Animal Production	0	0	0	0	0	0	0	2	2
M.Tech. Agriculture	0	0	0	0	0	0	0	1	1
M.Tech. Food Technology	0	0	0	0	0	0	0	1	1
M.Tech. Forestry	0	0	0	0	0	0	0	0	0
Masters. Domestic	0	13	9	5	5	10	0	7	49
NB.Tech. Engineering	0	6	0	0	0	1	0	0	7
B.Tech. Forestry	0	0	0	0	0	0	3	3	6
B.Tech. Environmental Management	0	0	0	0	0	0	0	0	0
Honours	0	4	2	2	7	8	0	7	30
M.Tech. Animal Production	0	0	0	0	0	0	0	2	2
M.Tech. Agriculture	0	0	0	0	0	0	0	1	1
M.Tech. Food Technology	0	0	0	0	0	0	0	1	1
M.Tech. Forestry	0	0	0	0	0	0	0	0	0
Masters. Domestic	0	13	9	5	5	10	0	7	49
Masters International Studies	0	0	0	0	0	0	0	10	10
Ph.D. International Studies	0	0	0	0	0	0	0	2	2
Ph.D. Domestic	0	2	1	0	0	0	1	3	7
Total beneficiaries	127	123	147	134	117	122	100	112	982
Total completed	5	38	80	73	63	62	45	52	418
Total expenditure (R)	2 912 535,00	4 103 960,00	8 385 715,00	8 919 300,00	1 051 0734,00	1 027 7337,00	1 0327758,94	1 3181674,57	68 619214,51

Table 21 indicates that 982 bursary holders benefitted from the scheme from its inception in 2004 and 418 successfully completed their studies. The table further shows that the highest number of beneficiaries was recorded in the following fields of study: National Senior Certificate (191)—a programme in which learners are recruited with the objective of creating a pool that will follow scarce skills careers in agriculture, forestry and fisheries upon completion of their Grade 12 studies; Agri-Management Development Programme (137)—a one-year generic course for entrepreneurial development; Diploma in Agriculture (99); B.Sc. Veterinary Science (76); B.Sc. Bioresource Engineering (58); B.Sc. Agricultural Economics (50); B.Sc. Viticulture and Oenology (43); Masters Domestic (49); Masters International (10), Ph.D. Domestic (7) and Ph.D. International (2). The total amount spent on the implementation of the bursary scheme from 2004 to 2011 is R68 619 214, 51.

9. Summary of the external bursaries awarded by provincial departments of agriculture during the 2011 academic year

9.1 Performance of bursary holders sponsored by provincial departments of agriculture

Breakdown of end-of-the-year performance of bursary holders sponsored by provincial departments of agriculture is shown for the following provinces, e.g. Mpumalanga, KwaZulu-Natal, Limpopo, Eastern Cape, Free State, Western Cape and Gauteng

Table 22 shows that out of 132 bursaries awarded by the Mpumalanga Department of Agriculture, Rural Development and Land Administration, 122 candidates passed while 9 failed their end-of-the-year examinations and one dropped out (p. 27).

TABLE 22 Breakdown of the end-of-year performance of bursary holders sponsored by the Mpumalanga Department of Agriculture, Rural Development and Land Administration in 2011 [n = 132]

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. Bioresource Engineering	5	4	1	0	0	0	0	0	0	3	1	5	
B.Sc. Agric Economics	8	8	0	0	0	0	0	0	0	8	0	8	
B.Sc. Aquaculture	1	1	0	0	0	0	0	0	0	1	0	1	
B.Sc. Animal Health	18	18	0	0	0	0	0	0	0	17	1	18	
B.Sc. Animal Science	10	10	0	0	0	0	0	0	0	10	0	10	
B.Sc. Animal Production	1	1	0	0	0	0	0	0	0	1	0	1	
B.Sc. Civil Engineering	3	3	0	0	0	0	0	0	0	2	1	3	
B.Sc. Quantity Survey	1	1	0	0	0	0	0	0	0	1	0	1	
B.Sc. Mechanical Engineering	2	2	0	0	0	0	0	0	0	2	0	2	
B.Sc. Land Survey	1	1	0	0	0	0	0	0	0	1	0	1	
B.Sc. Soil Science	3	3	0	0	0	0	0	0	0	3	0	3	
B.Sc. Agriculture	3	3	0	0	0	0	0	0	0	3	0	3	
Rural Dev and Land Reform	1	1	0	0	0	0	0	0	0	1	0	1	
B.Sc. Hydrology	5	5	0	0	0	0	0	0	0	5	0	5	
B.Sc. Microbiology	1	1	0	0	0	0	0	0	0	1	0	1	
B.V.Sc.	18	18	0	0	0	0	0	7	7	20	5	25	
Nat. Dipl. Civil Engineering	2	2	0	0	0	0	0	0	0	2	0	2	
Nat. Dipl. Vet Technology	2	2	0	0	0	0	0	0	0	2	0	2	
Nat. Dipl. Vet Nursing	4	4	0	0	0	0	0	0	0	4	0	4	
Nat. Dipl. Crop Science	6	6	0	0	0	0	0	0	0	6	0	6	
Nat. Dipl. Animal Health	1	1	0	0	0	0	0	0	0	1	0	1	
Nat. Dipl. Dev & Planning	1	1	0	0	0	0	0	0	0	1	0	1	
Nat. Dipl. Land Survey	2	2	0	0	0	0	0	0	0	2	0	2	
Nat. Dipl. Mechanical Engineering	3	3	0	0	0	0	0	0	0	2	1	3	
Nat. Dipl. Plant Production	22	22	0	0	0	0	0	0	0	22	0	22	
Extension and Development	1	1	0	0	0	0	0	0	0	1	0	1	
Total	125	124	1	0	0	0	0	7	7	122	9	132	

TABLE 23 Breakdown of the end-of-year performance of bursary sponsored by the KwaZulu-Natal Department of Agriculture in 2011 [n =125]

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				
B.Sc. Agricultural Engineering	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Agricultural Economics	24	24	0	0	0	0	0	0	0	0	0	0	1	22	3	25
B.Sc. Horticulture	4	4	0	0	0	0	0	0	0	0	0	0	0	4	0	4
B.Sc. Agronomy	5	5	0	0	0	0	0	0	0	0	0	0	0	5	0	5
B.Sc. Plant Pathology	2	2	0	0	0	0	0	0	0	0	0	0	0	1	1	2
B.Sc. Microbiology	4	4	0	0	0	0	0	0	0	0	0	0	0	4	0	4
B.Sc. Environmental Hydrology	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Environmental Management	6	6	0	0	0	0	1	1	0	0	0	0	0	5	2	7
B.Sc. Environmental Science	9	9	0	0	0	0	0	0	0	0	0	0	0	9	0	9
B.Soc.Sci: Environmental Management	7	7	0	0	0	0	0	0	0	0	0	0	0	5	2	7
B.Sc. Agricultural Science	38	38	0	0	0	0	1	1	0	0	0	0	1	34	6	40
B.V.Sc.	1	1	0	0	0	0	3	3	0	0	0	0	3	7	0	7
B.Sc. Biological Science	2	2	0	0	0	0	1	1	0	0	0	0	0	1	2	3
Nat. Dipl. Animal Health	7	7	0	0	0	0	0	0	0	0	0	0	0	6	1	7
Nat. Dipl. Veterinary Technology	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
LLB Environmental Legal Compliance	2	2	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Total	114	114	0	0	0	0	6	6	0	0	0	0	5	107	18	125

Table 23 indicates that out of 125 bursaries awarded by the KwaZulu-Natal Department of Agriculture, 107 candidates passed while 18 failed their end-of-the-year examinations.

TABLE 24 Breakdown of the end-of-year performance of bursary holders sponsored by the Limpopo Department of Agriculture in 2011 [n =46]

Fields of study	Race										Results			Total								
	African					Coloured					Indian					White						
	No of awards	No. wrote exams	No. drop out	No. of awards	No. drop out	No. wrote exams	No. drop out	No. of awards	No. drop out	No. wrote exams	No. drop out	No. of awards	No. drop out		No. wrote exams	No. drop out	No. of awards	No. drop out	No. wrote exams	No. drop out	No. passed	No. failed
B.Sc. Agricultural Engineering	12	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	12
B.Sc. Animal Health (Epidemiology)	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8
B.Sc. Food Science Technology	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
B.Sc. Pasture Science	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
B.Sc. Plant Pathology	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
B.V.Sc.	9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	14
B.Sc. Agronomy	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3
Nat. Dipl. Veterinary Technology	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Total	46	34	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	4	46

Table 24 reveals that out of 46 bursary holders by the Limpopo Department of Agriculture, 29 passed while 4 failed their end-of-the-year examinations, and one dropped out. Seven beneficiaries registered for B.Sc. Agricultural Engineering (Zimbabwe) and four registered for B.V.Sc. (Nairobi), their results will only be available by the end of July 2012.

TABLE 25 Breakdown of the end-of-year performance of bursary holders sponsored by the Eastern Cape Department of Rural Development and Agrarian Reform in 2011 [n =30]

Fields of study	Race										Results			Total								
	African					Coloured					Indian					White						
	No of awards	No. wrote exams	No. drop out	No. of awards	No. drop out	No. wrote exams	No. drop out	No. of awards	No. drop out	No. wrote exams	No. drop out	No. of awards	No. drop out		No. wrote exams	No. drop out	No. of awards	No. drop out	No. wrote exams	No. drop out	No. passed	No. failed
B.Sc. Horticulture	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Agric Economics	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6
B.Sc. Animal Production	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
B.Sc. Soil Science	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
B.Sc. Plant Pathology	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Pasture Science	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
B.V.Sc.	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	11	0	11
Nat. Dipl. Civil Engineering	1	1	0	0	0	0	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	0	0	0	0	1	0	1
Total	28	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	30	0	30

Table 25 reflects that all 30 beneficiaries from the Eastern Cape Department of Rural Development and Agrarian Reform passed their end-of-the-year examinations.

TABLE 26 Breakdown of the end-of-year performance of bursary holders sponsored by the Free State Department of Agriculture in 2011 [n =22]

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				
B.Sc. Agric Engineering	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.Sc. Food Science	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	
B.Sc. Agric Economics	2	2	0	0	0	0	0	0	0	0	0	0	2	0	2	
B.Sc. Agriculture	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.Sc. Microbiology	2	2	0	0	0	0	0	0	0	0	0	0	2	0	2	
B.V.Sc.	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
MBCHB	1	1	0	0	0	0	0	0	0	0	0	1	2	0	2	
B.Com. Accounting	1	1	0	0	0	0	0	0	0	0	0	1	2	0	2	
B.Com.	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.Sc. Financial Mathematics	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
Nat. Dipl. Building	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
Nat. Dipl. Civil Engineering	4	4	0	0	0	0	0	0	0	0	0	0	3	1	4	
Nat. Dipl. Electrical Engineering	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
Nat. Dipl. Veterinary Technology	2	2	0	0	0	0	0	0	0	0	0	0	2	0	2	
Total	20	20	0	0	0	0	0	0	0	0	0	0	20	2	22	

Table 26 indicates that out of 22 bursary holders by the Free State Department of Agriculture, 20 passed while 2 failed their end-of-the-year examinations.

TABLE 27 Breakdown of the end-of-year performance of bursary holders sponsored by the Western Cape Department of Agriculture in 2011 [n =87]

Fields of study	Race										Results			Total				
	African					Coloured					Indian				White			
	No of awards	No. wrote exams	No. drop out	No. of awards	No. drop out	No. wrote exams	No. drop out	No. of awards	No. drop out	No. wrote exams	No. drop out	No. of awards	No. drop out		No. wrote exams	No. drop out	No. passed	No. failed
B.Sc. Agric	2	2	0	1	0	1	0	0	0	0	0	0	0	2	0	3	2	5
B.Sc. Agricultural Economics	1	1	0	1	0	1	0	0	0	0	0	0	0	1	0	2	1	3
B.Sc. Ecology	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1
B.Sc. Soil Science	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
B.Sc. Microbiology	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
B.Sc. Civil Engineering	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Genetics	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
B.V.Sc.	0	0	0	2	0	2	1	0	1	0	0	0	0	2	0	5	0	5
B.Com (Economics)	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
Nat. Cert. Farm Management	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	2	0	2
Nat. Dipl. Agricultural Management	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	1	1	2
Nat. Dipl. Animal Health	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1
Nat. Dipl. Civil Engineering	0	0	0	7	0	7	0	0	0	0	0	0	0	1	0	4	4	8
B.Agric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
B.Agric. Admin	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
B.Agric. Cellar Technology	1	1	0	3	0	3	0	0	0	0	0	0	0	1	0	5	0	5
B.Agric. Cellar Management	2	2	0	1	0	1	0	0	0	0	0	0	0	0	0	3	0	3
B.Agric. Agri-Tourism and Animal Production	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	1	2
B.Agric Extension and Plant Production	2	2	0	1	0	1	0	0	0	0	0	0	0	0	0	3	0	3
B.Agric Plant and Animal Production	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2
B.Agric Plant Production	1	1	0	4	0	4	0	0	0	0	0	0	0	1	0	6	0	6
Higher Certificate. Animal Production and Vegetables	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Higher Certificate. Extension and Animal Production	4	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4

TABLE 27 Breakdown of the end-of-year performance of bursary holders sponsored by the Western Cape Department of Agriculture in 2011 [n =87] (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				
Higher Certificate in Extension, Agronomy and Vegetables	3	3	0	0	0	0	0	0	0	0	0	0	3	0	3	
Higher Certificate in Extension and Viticulture	2	2	0	6	0	0	0	0	0	0	0	0	6	2	8	
Higher Certificate. Pomology and Viticulture	1	1	0	3	0	0	0	0	0	0	0	0	4	0	4	
Higher Certificate in Vegetables and Animal Production	3	3	0	0	0	0	0	0	0	0	0	0	2	1	3	
M.Tech Food Technology	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	
M.Com. Industrial Psychology	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	
M.Com. Agric. Economics	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
M.Inst. Agrar. Horticulture	1	1	0	1	1	0	0	0	0	0	0	0	2	0	2	
Total	34	33	1	40	39	1	1	1	1	1	1	1	65	19	87	

Table 27 shows that out of 87 bursaries awarded by the Western Cape Department of Agriculture, 65 candidates passed while 19 failed their end-of-the-year examinations and 3 dropped out.

TABLE 28 Breakdown of the end-of-year performance of bursary holders sponsored by the Gauteng Department of Agriculture in 2011 [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				
B.Sc. Genetics	1	1	0	0	0	0	0	0	0	0	0	0	2	0	2	
B.Sc. Biotechnology	4	4	0	0	0	0	0	0	0	0	0	0	5	0	5	
B.Sc. Biochemistry	3	3	0	0	0	0	0	0	0	0	0	0	3	0	3	
B.Sc. Biochemistry and Zoology	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.Sc. Botany and Chemistry	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	
B.Sc. Life and Environmental Sciences	4	3	1	0	0	0	0	0	0	0	0	0	3	0	4	

TABLE 28 Breakdown of the end-of-year performance of bursary holders sponsored by the Gauteng Department of Agriculture (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			
B.A. Geography	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.V.Sc.	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1
Nat. Dipl. Nature Conservation	2	2	0	0	0	0	0	0	0	0	0	0	2	0	2
Nat. Dipl. Eco-Tourism Management	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
Nat Dipl. Veterinary Technology	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
Nat Dipl. Biotechnology	7	7	0	0	0	0	0	0	0	0	0	0	6	1	6
B.Tech. Biotechnology	14	14	0	0	0	0	0	0	0	0	0	0	14	0	14
M.Sc. Biotechnology	5	5	0	0	0	0	4	4	0	0	0	1	10	0	10
Total	45	44	1	0	0	0	5	5	0	0	0	3	51	2	53

Table 28 shows that out of 53 bursary holders by the Gauteng Department of Agriculture, 51 passed while 1 failed their end-of-the-year examinations and 1 dropped out.

10. Conclusion

The 2011/12 External Bursary Scheme report indicates the need for skills development for the youth in the country by providing financial assistance for deserving young people.

In terms of academic performance, 246 (93,2%) of the 264 bursary beneficiaries in Higher and Further Education and Training passed their examinations at the end of 2011 and 52 of them completed their studies.

The approval by the Director-General to appoint completing bursary holders additional to the post establishment where the functional unit has the budget was the major achievement to ensure return on investment during the implementation of the programme in 2011. This resulted in the appointment of candidate engineers and veterinarians in the department.

There is a need for career awareness to be strengthened in fields of study that are scarce and critical in forestry and fisheries such as B.Sc. Marine Botany, B.Sc. Aquaculture, Nat. Dipl. Oceanography and B.Sc. Forestry. 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.

The total of 810 relevant applications received in response to the bursary advertisement, clearly demonstrates that many young people seriously need financial assistance to further their studies in one of the identified scarce and critical skills in agriculture, forestry and fisheries.

