



Annual report

on the implementation of the external bursary scheme

2014/2015



agriculture,
forestry & fisheries

Department:
Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA



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bursary scheme**



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Acronyms

APAP	Agriculture Policy Action Plan
ARC	Agricultural Research Council
ASDP	Academic Support and Development Programme (implemented by the Faculty of Engineering at the University of KwaZulu-Natal)
B.A.	Bachelor of Arts
B. Agric.	Bachelor of Agriculture
B.Com.	Bachelor of Commerce
B.Sc.	Bachelor of Science
B.Tech.	Bachelor of Technology
B.V.Sc.	Bachelor of Veterinary Science
DAFF	Department of Agriculture, Forestry and Fisheries
DHET	Department of Higher Education and Training
DIRCO	Department of International Relations and Cooperation
D. Tech.	Doctorate degree in Technology
GADI	Grootfontein Agricultural Development Institute
FET	Further Education and Training
GCIS	Government Communication and Information System
HET	Higher Education and Training
Hons	Postgraduate degree (Honours)
HRD	Human Resources Development
IPAP	Industry Policy Action Plan
M.Com.	Master's degree in Commerce
M.Sc.	Master's degree in Science
M.Tech.	Master's degree in Technology
Nat. Dipl.	National Diploma
NBC	National Bursary Committee
NDP	National Development Plan
NGP	New Growth Path
NSFAS	National Students' Financial Aid Scheme
Ph.D.	Postgraduate degree (Doctorate)
SAQA	South African Qualifications Authority
SET	Sector Education and Training
UKZN	University of KwaZulu-Natal

Definition of terms

Academic performance	Performance or progress of bursary holders 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 regarded as 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 2014/15 Annual report on the implementation of the external bursary scheme covers activities relating to the 2014/15 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 333 students were awarded bursaries to further their studies during the 2014 academic year. In terms of race, 288 (86, 5%) were Africans, 27 coloureds (8, 1%), 15 whites (4, 5%) and 3 Indians (0, 9%) benefited from the scheme in 2014. With regard to gender, 118 (35, 4 %) are males and 215 (64, 6%) are females. Out of the 333 bursary holders, 160 constituted new intake additional to the 173 beneficiaries who were already in the system. Of the new intake, 112 were undergraduates, 25 postgraduates (B. Tech. Honours, Masters and D. Tech.) and 23 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 333 beneficiaries who were awarded bursaries, 328 wrote their 2014 end-of-year examinations. Of the 328, 316 (96, 3%) passed and 12 (3, 7%) failed. Despite the support given to bursary holders, five of them discontinued their studies because of poor performance, ill health or misconduct. Out of the 2014 academic year cohort, 55 beneficiaries consisting of undergraduate and postgraduate students successfully completed their studies.

In measuring the return on investments of the scheme for the past years (2004-2014) and impact analysis thereof, section eight of the report highlight the following:

- 16 827 Applications were received from young people over the past ten years of which 7 451 were relevant and 9 376 were irrelevant. Of the 7 451 relevant applications received only 1003 bursaries were awarded and 6 448 relevant with good grades in Mathematics and Physical Science were regretted due to limited budget. During the period in question (2004-2014), the department invested R115 778 348.70.
- Out of the 1003 bursaries awarded since inception of the scheme, 537 completed their qualifications and are contributing to the economy of the country as part of the labour force as Scientists, Economists, Veterinarians, Food Technologists, Candidate Engineers etc while others are still searching for job opportunities. The summary on analysis of their whereabouts as outlined in Table 22 in the report is summarised below:
 1. 169 are employed by private sector
 2. 73 are employed by DAFF
 3. 64 are employed by provincial Departments of Agriculture
 4. 48 are employed by parastatals
 5. 2 are employed by other National Government Departments
 6. 181 are either unemployed or registered for further studies using other sponsors outside DAFF

The report further illustrates investment made by Provincial Departments of Agriculture (PDAs) in allocating external bursaries during 2014 academic year. In summary, PDAs awarded 452 bursaries to qualifying and deserving young people. Of this total, 422 passed their end of year examinations, 19 failed and 11 dropped out.

- In conclusion, the report highlights the following assumptions, challenges and recommendations:

Assumptions and challenges:

1. The number of applications received clearly demonstrate that young people are interested in careers in agriculture, forestry and fisheries judging by 7 451 relevant applications received from 2004-2014 out of a pool of 16 827 applications. This clearly articulates the impact made by the DAFF Career Awareness Programme on the ground in promoting careers in agriculture, forestry and fisheries among school going youth particularly in rural areas.
2. The major challenge is still the limited budget of the scheme judging by 6 448 (86.0%) of relevant applications from 2004-2014 which could not be funded by DAFF External Bursary Scheme. This shortcoming, defeats the very end purpose of attracting young people into agriculture, forestry and fisheries careers. The scores (6 448) of young people with good grades (symbols) in Mathematics and Physical Science who were regretted by DAFF due to budget constraints were probably lost into other sectors like mining, telecommunication, electrical, mechanical etc because funding for students with such grades is always adequate in these sectors.

3. It is worth noting that the pool of students with good symbols in Mathematics and Physical Science is limited and continues to shrink. Therefore losing potential students from this category to other sectors due to limited budget draw the agriculture, forestry and fisheries sectors further backwards and downwards into the negative and make it less attractive to young people.
4. The other major challenge is appointment of completed bursary holders by DAFF judging by 73 bursary holders appointed over the past ten years. Every year, scores of bursary holders who complete their studies and could not secure permanent employment are appointed as DAFF interns for 12 months. Thereafter they are released into the sector to search for work or opportunities to start their own businesses.

Recommendations:

- It is strongly recommended that the budget of the scheme be increased steadily to be at least R30 million by 2020. This will partially address the high volume of relevant applications with good grades in Mathematics and Physical Science that are regretted annually due to limited budget.
- Secondly, DAFF should set budget aside to implement the graduate placement programme, where completed DAFF bursary holders will be appointed on contract for the period equivalent to the number of years the bursary was allocated to maximise return on investment.



BACKGROUND AND MANAGEMENT PROCESSES

Introduction

The National Development Plan vision 2030 sets out various methods and targets to eradicate poverty, reduce unemployment and eliminate inequality by 2030. The plan identifies food and nutrition security as a key element to eradicate both poverty and inequality and further articulates steps to improve them. The Department of Agriculture, Forestry and Fisheries' National Policy on Food and Nutrition Security serves as a basis for achievement of objectives of the National Development Plan, the National Education and Training Strategy for Agriculture, Fisheries and Forestry, the Agriculture Policy Action Plan (APAP), the Industry Policy Action Plan (IPAP) and the New Growth Path (NGP).

The External Bursary Scheme implemented by the department serves 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 to ensure realisation of objectives on the National Development Plan. The scheme's 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 further serves as a skills pipeline to contribute towards the promotion of inclusive economic growth by ensuring a constant supply of required skilled personnel in the highly competitive agriculture, forestry and fisheries industry. For 2014 academic year the scheme received a budget of R19.1 million of which R15,9 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, 1003 young people benefited from variety of bursary awards. Of this total, 537 successfully completed their tertiary qualifications.

Objectives

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

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.

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.

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.

Needs directed

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

Redress

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



Bursary management process

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 2013. The information on scarce skills collected from the needs analysis were analysed and aligned with the National Development Plan, DIRCO scarce skills list, top hundred (100) scarce skills list from DHET as well as scarce skills list identified by the Department of Home Affairs. Subsequent to the analysis and alignment, the following fields of studies were prioritised for the 2014 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. B.Sc. Hons, M.Tech, M.Sc., D.Tech 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 *Isolezwe*, *Cape Argus*, *Daily Sun* and *City Press* in June 2013 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 2014 DAFF's external bursary opportunities was also done through the distribution of posters during July 2013 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 2014 advert, a total of 2 796 (two thousand seven hundred and ninety six) applications from potential applicants were received, captured and analysed as follows:

- | | |
|---|-------|
| • Bachelor of Veterinary Science | : 150 |
| • B.Sc. Bioresource Engineering | : 76 |
| • B.Sc. Viticulture and Oenology | : 24 |
| • B.Sc. Food Science | : 122 |
| • B.Sc. Geo-informatics | : 22 |
| • B.Sc. Plant Pathology | : 39 |
| • B.Sc. Soil Science | : 168 |
| • B.Sc. Agronomy | : 86 |
| • B.Sc. Forestry and Wood Science | : 21 |
| • B.Sc. Marine Biology | : 61 |
| • B.Sc. Oceanography and Marine Biology | : 22 |
| • B.Sc. Ichthyology specialising in Aquaculture | : 08 |
| • Nat. Dipl. Food Technology | : 163 |



• Nat. Dipl. Oceanography	: 23
• Nat. Dipl. Forestry	: 55
• Dipl. Forestry	: 14
• Total irrelevant	: 1 742
Total applications received	: 2 796

Out of the 2 796 applications received, 1 054 were relevant and fundable and 1 742 were irrelevant because applicants had applied for fields of studies not advertised. Letters of acknowledgement were sent to 1 054 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.

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: equity, 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 2014 and as the highest decision-making body, the committee agreed on the following criteria for the 2014 awards:

- That the total number of bursary awards for 2014 academic year be based on the total budget available also taking into consideration savings accruing from completed bursary holders as at the end of 2013 academic year.
- That based on what DAFF can ensure is available for 2014, which is R8 467 442 (Eight million, four hundred and sixty seven thousand, four hundred and forty two rand) a total of 100 (one hundred) awards be approved by NBC.
- That the approved Departmental 14 point system shall be used in the selection of 100 successful candidates for 2014.
- That in case additional funds are secured to augment the R8 467 442 budget, additional awards shall be made to qualifying candidates using the 14 point scale and some of the fields of study shall be prioritized above others based on their level of scarcity. These include but 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 1054 (one thousand and fifty four) relevant application received for various study fields for 2014, high 14 point system scores with outstanding performance in Mathematics and Physical Science shall be used in awarding bursaries for 2014.
- That as mitigation against the risk of 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 2014 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.

- Over and above the 14 point system, the combined salary of both parents of the applicant will be taken into consideration to advantage applicants from previously impoverished poverty-stricken and deep rural communities.
- 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	: 11
• B.Sc. Bioresource Engineering	: 13
• B.Sc. Viticulture and Oenology	: 03
• B.Sc. Food Science	: 04
• B.Sc. Geo-informatics	: 03
• B.Sc. Plant Pathology	: 02
• B.Sc. Soil Science	: 11
• B.Sc. Agronomy	: 10
• B.Sc. Forestry and Wood Science	: 02
• B.Sc. Marine Biology	: 02
• Nat. Dipl. Food Technology	: 15
• Nat. Dipl. Forestry	: 08
• Diploma in Forestry	: 08
Number of awards	: 92

In addition, the following bursaries for National Senior Certificate, Higher Certificate, Diploma in Agriculture and postgraduate studies were awarded by respective task teams as follows for 2014:

• Diploma in Agriculture	: 13
• Higher Certificate	: 06
• National Senior Certificate	: 23
• B.Tech.	: 01
• Honours	: 06
• M.Tech.	: 02
• M.Sc.	: 11
• M.Sc. (international)	: 05
• Ph.D.	: 01
Number of awards	: 68

In total, 160 bursaries were awarded by DAFF to deserving young people for the 2014 academic year.



ANALYSIS OF THE 2014 BURSARY AWARDS

Breakdown of all bursary awards for the 2014 academic year

In 2014, 160 new beneficiaries were awarded bursaries in addition to the 173 bursary holders who were already in the system.

Table 1: Breakdown of all 2014 bursary awards [n = 333]

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
B.V.Sc.	18	2	2	7	8	27,6	21	72,4	29
B.Sc. Viticulture and Oenology	8	2	0	1	4	36,4	7	63,6	11
B. Agric. Viticulture	0	0	0	1	1	100,0	0	0,0	1
B.Sc. Bioresource Engineering	29	0	0	1	18	60,0	12	40,0	30
B.Sc. Agric. Economics	3	0	0	0	2	66,7	1	33,3	3
B.Sc. Food Science	8	0	0	0	0	0,0	8	100,0	8
B.Sc. Genetics	4	0	0	0	1	25,0	3	75,0	4
B.Sc. Geo-informatics	2	0	1	1	1	25,0	3	75,0	4
B.Sc. Plant Pathology	6	0	0	0	2	33,3	4	66,7	6
B.Sc. Soil Science	14	0	0	0	3	21,4	11	78,6	14
B.Sc. Agronomy	13	0	0	1	4	28,6	10	71,4	14
B.Sc. Plant Sciences	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Pasture Science	2	0	0	0	0	0,0	2	100,0	2
B.Sc. Forestry Science	3	0	0	0	2	66,7	1	33,3	3
B.Sc. Forestry and Wood Science	5	1	0	0	1	16,7	5	83,3	6
B.Sc. Marine Biology	4	0	0	0	1	25,0	3	75,0	4
B.Sc. Ichthyology specialising in Aquaculture	2	0	0	0	1	50,0	1	50,0	2
Nat. Dipl. Forestry	9	0	0	0	3	33,3	6	66,7	9
Nat. Dipl. Food Technology	18	1	0	0	5	26,3	14	73,7	19
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	16	0	0	0	7	43,8	9	56,3	16
Diploma in Agriculture	37	0	0	0	13	35,1	24	64,9	37
Higher Certificate	4	2	0	0	5	83,3	1	16,7	6
National Senior Certificate	40	12	0	1	18	34,0	35	66,0	53
B.Tech. Forestry and Wood Technology	1	0	0	0	1	100,0	0	0,0	1
B.Sc. Marine Biology (Hons)	0	2	0	0	0	0,0	2	100,0	2
B.Sc. Ichthyology specialising in Aquaculture (Hons)	1	0	0	1	0	0,0	2	100,0	2
B.Sc. Ichthyology and Fisheries Science (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Oceanography and Marine Biology (Hons)	0	1	0	0	0	0,0	1	100,0	1
M.Tech. Agriculture	1	0	0	0	0	0,0	1	100,0	1
M.Tech. Oceanography	0	1	0	0	0	0,0	1	100,0	1
M.Sc. Marine Biology	1	1	0	0	1	50,0	1	50,0	2

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
M.Sc. Ichthyology	2	0	0	0	1	50,0	1	50,0	2
M.Sc. Environmental Science	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Forestry and Natural Science	0	0	0	1	1	100,0	0	0,0	1
M.Sc. Biochemistry	2	0	0	0	0	0,0	2	100,0	2
M.Sc. Animal Science	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Zoology	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Zoology and Aquatic Parasitology	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Aquaculture	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Agriculture	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Plant Pathology	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. Fisheries Science	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. Food Science	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)	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Agric. Economics (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Animal Science (international)	3	0	0	0	2	66,7	1	33,3	3
M.Sc. Crop Cultivation (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Plant Quarantine (international)	3	0	0	0	2	66,7	1	33,3	3
M.Sc. Plant Nutrition (International)	1	0	0	0	1	100,0	0	0,0	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. Pasture Science	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	288	27	3	15	118	35,4	215	64,6	333

Table 1 indicates that 288 Africans (86, 5 %), 27 Coloureds (8, 1 %), 15 Whites (4, 5%) and 3 Indians (0, 9 %) were awarded bursaries to further their studies.

Analysis of the 2014 new intake

Table 2: Breakdown of new intake of the 2014 DAFF bursary holders [n = 160]

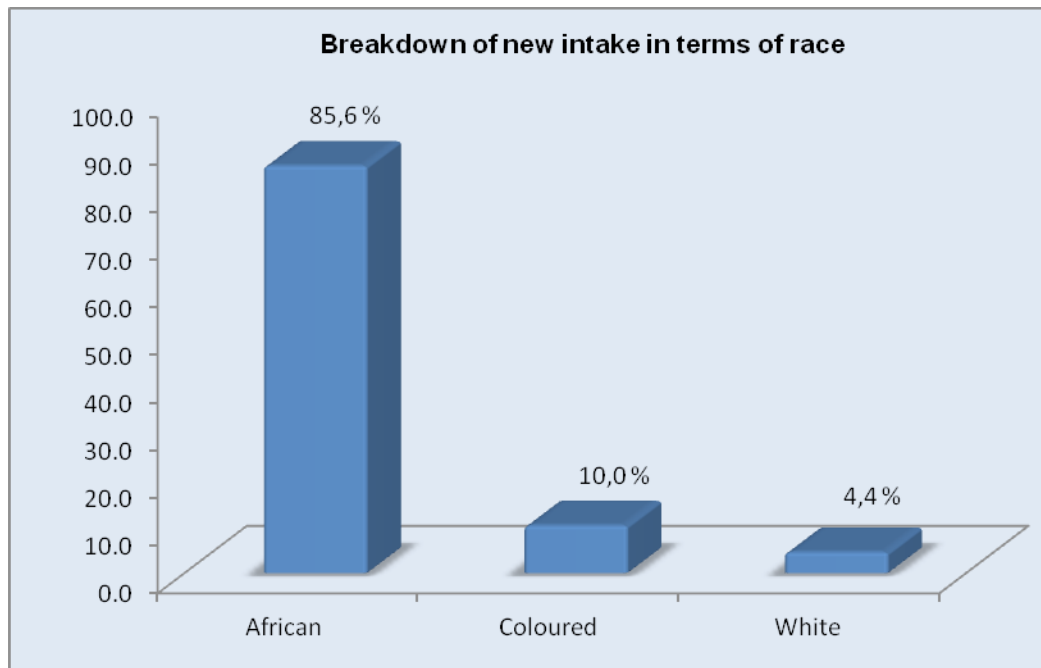
Field of study	Race			Gender				Total
	African	Coloured	White	Male		Female		
	No.	No.	No.	No.	%	No.	%	
B.V.Sc.	9	0	2	3	27,3	8	72,7	11
B.Sc. Viticulture and Oenology	1	1	1	0	0,0	3	100,0	3
B.Sc. Bioresource Engineering	13	0	0	8	61,5	5	38,5	13
B.Sc. Food Science	4	0	0	0	0,0	4	100,0	4
B.Sc. Geo-informatics	2	0	1	1	33,3	2	66,7	3



Field of study	Race			Gender				Total
	African	Coloured	White	Male		Female		
	No.	No.	No.	No.	%	No.	%	
B.Sc. Plant Pathology	1	1	0	0	0,0	2	100,0	2
B.Sc. Soil Science	11	0	0	1	9,1	10	90,9	11
B.Sc. Agronomy	10	0	0	3	30,0	7	70,0	10
B.Sc. Forestry and Wood Science	1	1	0	0	0,0	2	100,0	2
B.Sc. Marine Biology	2	0	0	1	50,0	1	50,0	2
Nat. Dipl. Forestry	8	0	0	3	37,5	5	62,5	8
Nat. Dipl. Food Technology	15	0	0	3	20,0	12	80,0	15
Diploma in Forestry	8	0	0	3	37,5	5	62,5	8
Diploma in Agriculture	12	1	0	4	30,8	9	69,2	13
Higher Certificate	4	2	0	5	83,3	1	16,7	6
National Senior Certificate	17	5	1	7	30,4	16	69,6	23
B.Tech. Forestry and Wood Technology	1	0	0	1	100,0	0	0,0	1
B.Sc. Marine Biology (Hons)	0	2	0	0	0,0	2	100,0	2
B.Sc. Ichthyology specialising in Aquaculture (Hons)	1	0	1	0	0,0	2	100,0	2
B.Sc. Ichthyology and Fisheries Science (Hons)	1	0	0	0	0,0	1	100,0	1
B.Sc. Oceanography and Marine Biology (Hons)	0	1	0	0	0,0	1	100,0	1
M.Tech. Agriculture	1	0	0	0	0,0	1	100,0	1
M.Tech. Oceanography	0	1	0	0	0,0	1	100,0	1
M.Sc. Marine Biology	1	1	0	1	50,0	1	50,0	2
M.Sc. Ichthyology	2	0	0	1	50,0	1	50,0	2
M.Sc. Environmental Science	1	0	0	0	0,0	1	100,0	1
M.Sc. Forestry and Natural Science	0	0	1	1	100,0	0	0,0	1
M.Sc. Biochemistry	1	0	0	0	0,0	1	100,0	1
M.Sc. Animal Science	1	0	0	0	0,0	1	100,0	1
M.Sc. Zoology	1	0	0	1	100,0	0	0,0	1
M.Sc. Zoology and Aquatic Parasitology	1	0	0	0	0,0	1	100,0	1
M.Sc. Aquaculture	1	0	0	1	100,0	0	0,0	1
M.Sc. Agric. Economics (international)	1	0	0	0	0,0	1	100,0	1
M.Sc. Animal Science (international)	1	0	0	0	0,0	1	100,0	1
M.Sc. Plant Nutrition (international)	1	0	0	1	100,0	0	0,0	1
M.Sc. Plant Quarantine (international)	2	0	0	2	100,0	0	0,0	2
Ph.D. Pasture Science	1	0	0	1	100,0	0	0,0	1
Total	137	16	7	52	32,5	108	67,5	160

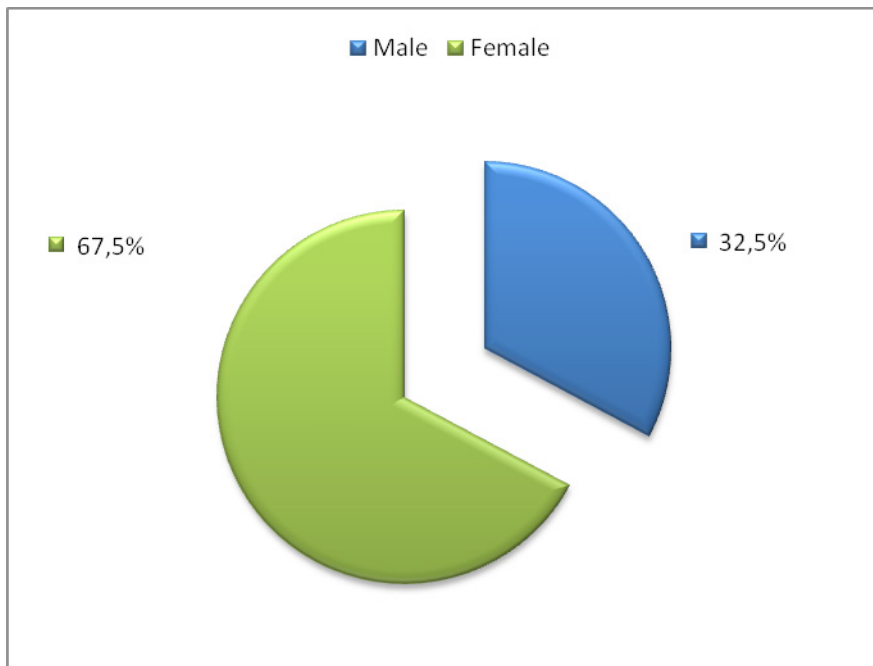
Table 2 shows that 160 new beneficiaries were awarded bursaries for the 2014 academic year. A total of 111 were undergraduates, 26 postgraduates (B.Tech. Hons, M.Tech, M.Sc. and Ph.D.) and 23 were high school learners.

Graph 1: Breakdown of new intake of DAFF bursary holders in terms of race for 2014 [n = 160]



In terms of the allocations depicted in Graph 1, Africans are the major beneficiaries with 137 (85, 6%), followed by Coloureds with 16 (10, 0%), and Whites with 7 (4, 4%).

Graph 2: Breakdown of new intake of DAFF bursary holders in terms of gender for 2014 [n = 160]



In terms of gender depicted in Graph 2 above, 67, 5% of the beneficiaries are females and 32, 5% are males.

Analysis of provinces and municipalities where bursary beneficiaries are coming from

The 2014 DAFF bursary awards were advertised in the national print and electronic media in June 2013 and as a result, candidates were recruited nationally. The tables below indicate the analysis of provinces and municipalities where beneficiaries come from:



Table 3: Breakdown of all 2014 bursary holders according to provinces where they come from [n = 333]

Province	Total
Eastern Cape	73
Free State	11
Gauteng	38
KwaZulu-Natal	63
Limpopo	50
Mpumalanga	34
North West	16
Northern Cape	15
Western Cape	33
Total	333

Table 3 shows that the highest number of beneficiaries (73) came from Eastern Cape while the lowest number (11) came from Free State.

Table 4: Breakdown of all 2014 bursary holders according to the municipalities/districts where they come from [n = 333]

Municipality/district	Total	Municipality/district	Total
Aganang	2	Matlosana	1
Albert Luthuli	6	Mbashe	2
Alfred Ndzo	4	Mbizana	3
Amajuba	3	Mbombela	3
Amathole	1	Mhlontlo	1
Bellville	1	Midrand	1
Bizana	1	Mitchells Plain	1
Blaauwberg	1	Mkhanyakude	1
Blouberg	1	Mnquma	3
Boland	1	Mogalakwena	5
Bushbuckridge	11	Mogale City	6
Buffalo City	12	Molemole	1
Cape Town	8	Mopani	1
Capricorn	3	Mptheo	1
Cederberg	2	Msukaligwa	5
Chris Hani	3	Msunduzi	13
Dihlabeng	1	Mthatha	1
Drakenstein	1	Mtubatuba	1
Dr J.S. Moroka	1	Nkandla	1
Ekurhuleni	5	Newcastle	2
Elias Motswaledi	1	Nketoana	1
Elundini	1	Nkomazi	3
Emalahleni	5	Ngaka Modiri Molema	2
Empangeni	1	Nkobenkobe	3
Ephraim Mogale	1	Nongoma	1
eThekwini	12	Nyandeni	1
Fetakgomo	1	OR Tambo	1
Greater Kokstad	10	Phokwane	3

Municipality/district	Total	Municipality/district	Total
Greater Letaba	1	Polokwane	8
Greater Taung	5	Port St Johns	1
Greater Tubatse	1	Prixley ka Seme	1
Greater Sekhukhune	2	Ramotshere Moiloa	3
Helderberg	1	Sakhisizwe	2
Hessequa	2	Sedibeng	1
Hibiscus	2	Stellenbosch	3
Ingquza Hill	4	Sol Plaatje	2
Inkomazi	3	Thabo Mufutsanyane	1
Inkwanca	1	Theewaterskloof	6
Intsikayethu	2	Thembisile Hani	2
Joe Gqabi	2	Thulamela	6
Johannesburg Metro	9	Tshwane	12
Kai Garib	7	Tsolwana	3
King Sabata Dalidyebo	5	Tygerberg	2
Knysna	1	Ugu	1
Kraaifontein	1	Ukhahlamba	1
KwaSani	1	Ulundi	2
Kuils Rivier	1	uMgungundlovu	1
Langeberg	2	Umhlabuyalingana	1
Lepelle Nkumpi	8	Umkhanyakude	1
Lukhanjie	4	Umhlatuze	2
Madibeng	7	Umzimvubu	1
Mahikeng	1	uThungulu	1
Mafube	1	uThukela	2
Makhado	4	Vereeniging	1
Makhuduthamaga	2	Vhembe	5
Maluti-a-Phofung	6	West Rand	1
Mangaung	2	Whittlesea	1
Matatiele	2	Zululand	1
Total	190	Total	143
Grand Total:		333	

Table 4 shows that the majority (13) of bursary beneficiaries came from Msunduzi, followed by Buffalo City, eThekweni and Tshwane with 12 respectively.

BURSARY COUNSELLING SERVICES

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

The core functions of the bursary counselling services are as follows:

- Give academic, career, social, personal and psychological support to bursary holders
- Assess academic progress of bursary holders through semester tests, tutorials and assignments
- Identify early-warning signs of possible failure among bursary holders and provide mitigating solutions
- Provide 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.

Support given to bursary holders during the 2014 academic year

The Bursary Student Counsellors 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 2014 academic year which the Bursary Student Counsellors 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

Bursary monitoring meetings

Monitoring and evaluation of academic performance of bursary holders is critical in ensuring the success of the bursary scheme. During 2014, physical visits to various institutions where DAFF bursary holders are attending and the National Student Financial Aid Scheme (NSFAS) were conducted. The NSFAS, which administers the transfer of DAFF bursary funds to various institutions, was visited on 03 March 2014 and again on 22 October 2014. 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
- Orientation on the new S-Bux System
- Plan for 2014 academic year (03 March 2014) and for 2015 academic year (22 October 2014)

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 in hours	Outcomes of meetings
13 February	University of Pretoria (Main Campus)	<ul style="list-style-type: none"> • To welcome and orientate new bursary holders and to check if they have settled properly. 	21	3	<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



Date	Institution of learning visited	Purpose	No. of bursary holders attended	Duration of meetings in hours	Outcomes of meetings
19 February	Tshwane University of Technology	<ul style="list-style-type: none"> To sign original contracts of External Bursary Scheme and private residence forms for those who are residing off-campus. 	6	1	New students were inducted with regard to the following:
18 February	University of Pretoria (Onderstepoort)		19	2	
20 February	University of Johannesburg	<ul style="list-style-type: none"> To discuss DAFF's External Bursary Policy and procedures. To introduce DAFF Bursary Section officials to new bursary holders. To confirm registration of bursary holders. To confirm if the modules registered by students comply with requirements of registered fields of study. To confirm fees breakdown of bursary holders. To discuss meal and living allowance issue with students 	3	1	<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 <ol style="list-style-type: none"> 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 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 The fees structure, which includes tuition, books, accommodation, meals and monthly allowances, was discussed and finalised with the students and management of the universities The meetings also helped bursary holders from the same institution to get to know each other and to form study groups
20 February	University of Witwatersrand		2	1	
24 February	Nelson Mandela Metropolitan University		10	2	
25 February	University of the Western Cape		3	1	
25 February	Cape Peninsula University of Technology (Bellville Campus)		5	2	
25 February	Cape Peninsula University of Technology (Cape Town)		6	2	
26 February	University of Cape Town		2	1	
27 February	Elsenburg College		6	2	
28 February	University of Stellenbosch		18	2	
10 March	University of Zululand		7	2	
11 March	Durban University of Technology	4	2		
11 March	University of KwaZulu-Natal (Howard)	6	2		
12 March	University of KwaZulu-Natal (Westville)	4	1		
14 March	KwaZulu-Natal (Pietermaritzburg)	25	2		
26 March	Fort Cox College	14	2		
28 March	Rhodes University	8	2		
08 April	University of Limpopo	5	2		
09 April	University of Venda	8	2		
15 April	University of Free State	7	2		
16 April	Grootfontein Agricultural Development Institute	37	2		

Table 6: Report on the outcome of the combined Bursary Orientation Meetings held in Gauteng Province, the Western Cape Province, KwaZulu-Natal Province and Eastern Cape Province.

Date	Institution of learning visited	Purpose	No. of institutions' representatives attended	Duration of meetings in hours	Outcomes of meetings
22 February	University of Pretoria Tshwane University of Technology University of Johannesburg University of Witwatersrand	<ul style="list-style-type: none"> To welcome new bursary holders. 		4	<ul style="list-style-type: none"> Financial Aid Officers from various institutions made presentations on administrative issues and procedures to be followed for bursars to be advanced with allowances.



Date	Institution of learning visited	Purpose	No. of institutions' representatives attended	Duration of meetings in hours	Outcomes of meetings
01 March	University of Cape Town Cape Peninsula University of Technology(Cape Town and Bellville Campus) University of the Western Cape University of Stellenbosch Elsenburg	<ul style="list-style-type: none"> Orientate and induct bursary holders with regards to administration procedures of the DAFF External Bursary Scheme. Discuss the bursary agreement/contract and its implication. Orientate them on Student Counselling and Support Services 	2	4	<ul style="list-style-type: none"> Specialists for Veterinary Science, Food Science and Agricultural Engineering motivated students and advised them with regards to study skills, how to cope with academic challenges and work readiness upon completion. Bursars were further advised to devote their time more to studies in order to progress academically. Bursary unit made various presentations on administration of bursaries, policy and procedures, students counselling, review of 2013 performance and the DAFF Human Capital Development Programmes. The meeting seemed to have yielded good results since bursars indicated that they feel motivated because experts who were once in their positions managed to successfully complete their studies. Meeting served as an opportunity for networking and sharing of good practices and winning tactics.
			2	5	
			15 March	University of KwaZulu-Natal University of Zululand Durban University of Technology	
29 March	University of Fort Hare Rhodes University Fort Cox College	<ul style="list-style-type: none"> Motivation speeches by former bursary holders who are now specialists at various companies and within the department. 			

Table 7: Analysis of the one-on-one bursary monitoring meetings conducted for DAFF bursary holders during the 2014 academic year

Date	Institution of learning visited	Purpose	No. of bursary holders attended	Duration of meetings in minutes	Outcomes of meetings
13 May	University of Cape Town	Conduct one-on-one meetings with each student to offer academic and counselling support Assess academic progress of each bursary holder Mobilise academic support within the institutions for struggling students Discuss placement opportunities or vacation work, experiential training and permanent employment for completing students	2	15-30 minutes per student	The Bursary Student Counsellor offered counselling support to students and addressed their problems, which included but were not limited to the following: <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. 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 performance
13 May	Elsenburg College		6		
14 May	Cape Peninsula University of Technology (Cape Town campus)		5		
14 May	University of Western Cape		3		
15 May	University of Stellenbosch		18		
21 May	University of KwaZulu-Natal (Westville campus)		4		
21 May	Durban University of Technology		5		
22 May	University of KwaZulu-Natal (Howard campus)		7		
22 May	University of KwaZulu-Natal (Pietermaritzburg campus)		24		
27 May	University of Pretoria (Main Campus)		17		
28 May	University of Pretoria (Onderstepoort)		20		
29 May	University of Witwatersrand		4		
30 May	Tshwane University of Technology		7		

Sourcing of academic support for bursary holders

The Bursary Student Counsellors 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, 39 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 8 below shows the analysis of the 39 students:

Table 8: Analysis of bursary holders who received academic support [n = 39]

Name of institution	No. attending	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 (Pietermaritzburg)	11	B.Sc. Bioresource Engineering	1st year	Mathematics Physical Science Engineering Drawing Computer 102	11	0
	6		2nd year	Structures Thermodynamics Surveying Engineering	5	1
	8		3rd year	Irrigation Engineering	7	1
	5		4th year	Design Project	2	3
University of Pretoria	9	B.V.Sc.	1st year	Chemistry Mathematics Animal Nutrition	6	3
Total					31	8

Table 8 shows that 39 bursary holders benefited from academic support sourced with the University of KwaZulu-Natal and University of Pretoria. 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. Out of the 39 bursary holders who attended extra tutoring classes, 31 managed to pass their end-of-year examinations, 8 failed.

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

Activities implemented by the tutor during the 2014 academic year included but were not limited to the following:

- **Profiling of individual DAFF bursary holders**

The tutor conducted an orientation and induction programme for DAFF bursary holders during February 2014. 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 2014. 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 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 2014 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 B.Sc. Bioresource Engineering from 77, 3% (17 out of 22) in 2011 to 84% (21 out of 27) in 2013 and 93.3% (28 out of 30) in 2014.

PERFORMANCE OF BURSARY HOLDERS FOR 2014

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 2014 bursary holders per field of study [n = 328]

Field of study	No passed	% passed	No failed	% failed	Total
B.V.Sc.	23	82,1	5	17,9	28.0
B.Sc. Viticulture and Oenology	9	81,8	2	18,2	11
B. Agric. Viticulture	1	100,0	0	0,0	1
B.Sc. Bioresource Engineering	28	93,3	2	6,7	30
B.Sc. Agric. Economics	3	100,0	0	0,0	3
B.Sc. Food Science	7	100,0	0	0,0	7
B.Sc. Genetics	4	100,0	0	0,0	4
B.Sc. Geo-informatics	4	100,0	0	0,0	4
B.Sc. Plant Pathology	6	100,0	0	0,0	6
B.Sc. Soil Science	14	100,0	0	0,0	14
B.Sc. Agronomy	14	100,0	0	0,0	14
B.Sc. Plant Sciences	1	100,0	0	0,0	1
B.Sc. Pasture Science	2	100,0	0	0,0	2
B.Sc. Forestry Science	3	100,0	0	0,0	3
B.Sc. Forestry and Wood Science	6	100,0	0	0,0	6
B.Sc. Marine Biology	4	100,0	0	0,0	4
B.Sc. Ichthyology specialising in Aquaculture	1	50,0	1	50,0	2
Nat. Dipl. Forestry	9	100,0	0	0,0	9
Nat. Dipl. Food Technology	18	100,0	0	0,0	18
Nat. Dipl. Oceanography	5	100,0	0	0,0	5
Nat. Dipl. Agriculture	1	100,0	0	0,0	1
Diploma in Forestry	16	100,0	0	0,0	16

Field of study	No passed	% passed	No failed	% failed	Total
Diploma in Agriculture	37	100,0	0	0,0	37
National Senior Certificate	51	96,2	2	3,8	53
Higher Certificate	5	100,0	0	0,0	5
B. Tech. Forestry and Wood Technology	1	100,0	0	0,0	1
B.Sc. Marine Biology (Hons)	2	100,0	0	0,0	2
B.Sc. Ichthyology specialising in Aquaculture (Hons)	2	100,0	0	0,0	2
B.Sc. Ichthyology and Fisheries Science (Hons)	1	100,0	0	0,0	1
B.Sc. Oceanography and Marine Biology (Hons)	1	100,0	0	0,0	1
M. Tech. Agriculture	1	100,0	0	0,0	1
M. Tech. Oceanography	1	100,0	0	0,0	1
M.Sc. Marine Biology	2	100,0	0	0,0	2
M.Sc. Ichthyology	2	100,0	0	0,0	2
M.Sc. Environmental Science	1	100,0	0	0,0	1
M.Sc. Forestry and Natural Science	1	100,0	0	0,0	1
M.Sc. Biochemistry	2	100,0	0	0,0	2
M.Sc. Animal Science	1	100,0	0	0,0	1
M.Sc. Zoology	1	100,0	0	0,0	1
M.Sc. Aquaculture	1	100,0	0	0,0	1
M.Sc. Agriculture	1	100,0	0	0,0	1
M.Sc. Plant Pathology	1	100,0	0	0,0	1
M.Sc. Soil Science	1	100,0	0	0,0	1
M.Sc. Fisheries Science	1	100,0	0	0,0	1
M.Sc. Entomology	1	100,0	0	0,0	1
M.Sc. Food Science	1	100,0	0	0,0	1
M.Sc. Aquatic Breeding (international)	1	100,0	0	0,0	1
M.Sc. Agronomy (international)	1	100,0	0	0,0	1
M.Sc. Agric. Economics (international)	1	100,0	0	0,0	1
M.Sc. Animal Science (international)	3	100,0	0	0,0	3
M.Sc. Crop Cultivation (international)	1	100,0	0	0,0	1
M.Sc. Plant Quarantine (international)	3	100,0	0	0,0	3
M.Sc. Plant Nutrition (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. Pasture Science	1	100,0	0	0,0	1
D. Tech. Chemistry	1	100,0	0	0,0	1
Total	316	96,3	12	3,7	328

Table 9 indicates that out of 333 bursary holders for 2014, 328 wrote their end-of-year examinations. Of this total, 316 passed their end-of-year examinations, while 12 failed.



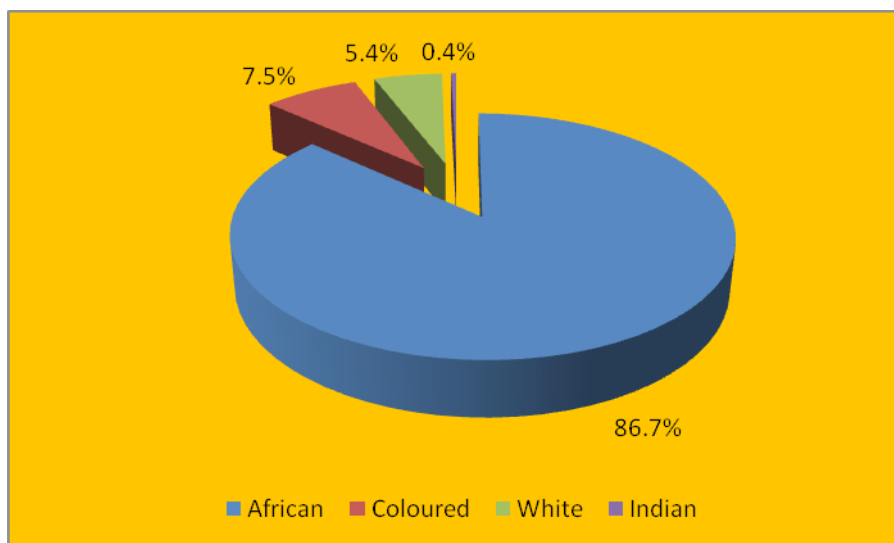
Table 10: Analysis of bursary holders who passed their 2014 end-of-year examinations per race and gender [n = 316]

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
B.V.Sc.	12	2	2	7	4	1,4	19	82,6	23
B.Sc. Viticulture and Oenology	8	0	0	1	4	4,4	5	55,6	9
B. Agric. Viticulture	0	0	0	1	1	10,0	0	0,0	1
B.Sc. Bioresource Engineering	27	0	0	1	16	5,1	12	42,9	28
B.Sc. Agric. Economics	3	0	0	0	2	66,7	1	33,3	3
B.Sc. Food Science	7	0	0	0	0	0,0	7	100,0	7
B.Sc. Genetics	4	0	0	0	1	25,0	3	75,0	4
B.Sc. Geo-informatics	2	0	1	1	1	25,0	3	75,0	4
B.Sc. Plant Pathology	6	0	0	0	2	33,3	4	66,7	6
B.Sc. Soil Science	14	0	0	0	3	21,4	11	78,6	14
B.Sc. Agronomy	13	0	0	1	4	28,6	10	71,4	14
B.Sc. Plant Sciences	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Pasture Science	2	0	0	0	0	0,0	2	100,0	2
B.Sc. Forestry Science	3	0	0	0	2	66,7	1	33,3	3
B.Sc. Forestry and Wood Science	5	1	0	0	1	16,7	5	83,3	6
B.Sc. Marine Biology	4	0	0	0	1	25,0	3	75,0	4
B.Sc. Ichthyology specialising in Aquaculture	1	0	0	0	1	100,0	0	0,0	1
Nat. Dipl. Forestry	9	0	0	0	3	33,3	6	66,7	9
Nat. Dipl. Food Technology	17	1	0	0	5	27,8	13	72,2	18
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	16	0	0	0	7	43,8	9	56,3	16
Diploma in Agriculture	37	0	0	0	13	35,1	24	64,9	37
National Senior Certificate	38	12	0	1	16	31,4	35	68,6	51
Higher Certificate	4	1	0	0	4	80,0	1	20,0	5
B. Tech. Forestry and Wood Technology	1	0	0	0	1	100,0	0	0,0	1
B.Sc. Marine Biology (Hons)	0	2	0	0	0	0,0	2	100,0	2
B.Sc. Ichthyology specialising in Aquaculture (Hons)	1	0	0	1	0	0,0	2	100,0	2
B.Sc. Ichthyology and Fisheries Science (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Oceanography and Marine Biology (Hons)	0	1	0	0	0	0,0	1	100,0	1
M. Tech. Agriculture	1	0	0	0	0	0,0	1	100,0	1
M. Tech. Oceanography	0	1	0	0	0	0,0	1	100,0	1
M.Sc. Marine Biology	1	1	0	0	1	50,0	1	50,0	2
M.Sc. Ichthyology	2	0	0	0	1	50,0	1	50,0	2
M.Sc. Environmental Science	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Forestry and Natural Science	0	0	0	1	1	100,0	0	0,0	1
M.Sc. Biochemistry	2	0	0	0	0	0,0	2	100,0	2
M.Sc. Animal Science	1	0	0	0	0	0,0	1	100,0	1

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
M.Sc. Zoology	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Aquaculture	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Agriculture	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Plant Pathology	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. Fisheries Science	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. Food Science	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)	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Agric. Economics (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Animal Science (international)	3	0	0	0	2	66,7	1	33,3	3
M.Sc. Crop Cultivation (international)	1	0	0	0	0	0,0	1	100,0	1
M.Sc. Plant Quarantine (international)	3	0	0	0	2	66,7	1	33,3	3
M.Sc. Plant Nutrition (international)	1	0	0	0	1	100,0	0	0,0	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. Pasture Science	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	274	24	3	15	109	34,5	207	65,5	316

Table 10 provides the racial breakdown of bursary beneficiaries who passed their 2014 end-of-year examinations per field of study. The data reflected in the table indicate that 274 Africans, 24 coloureds, three (3) Indians, and 15 whites passed their final examinations. The table further shows that in total, 316 bursary beneficiaries passed their final examinations, of which 207 are females and 109 are males.

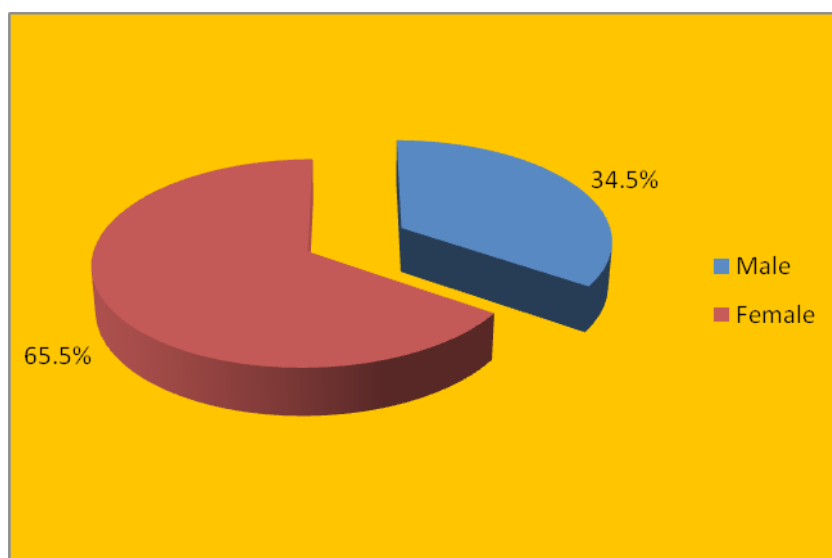
Graph 3: Breakdown of all bursary holders who passed their 2014 end-of-year examinations in terms of race [n = 316]



In terms of race, Graph 3 above shows that 86, 7% of the beneficiaries who passed were Africans. The other racial groups make up the remaining 13, 3%.



Graph 4: Breakdown of all bursary holders who passed their 2014 end-of-year examinations in terms of gender [n = 316]



The above gender graph demonstrates that 65, 5% of the beneficiaries who passed are females and 34, 5% are males.

Table 11: Analysis of bursary holders who failed their 2014 end-of-year examinations in terms of race and gender [n = 12]

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No	No	No	No	No	%	No	%	
B.V.Sc.	5	0	0	0	3	60,0	2	5	
B.Sc. Ichthyology specializing in Aquaculture	1	0	0	0	0	0,0	1	1	
B.Sc. Viticulture & Oenology	1	1	0	0	0	0,0	2	2	
B.Sc. Bioresource Engineering	2	0	0	0	2	100,0	0	2	
National Senior Certificate	2	0	0	0	1	50,0	1	2	
Total	11	1	0	0	6	50,0	6	12	

Table 11 shows that 12 bursary beneficiaries failed their end-of-year examinations. Of these, 11 are Africans and 1 Coloured. The highest failure rate was recorded in B.V.Sc. with five (5), followed by B.Sc. Bioresource Engineering, B.Sc. Viticulture and Oenology and National Certificate with two each.

Table 12: Analysis of the 2014 performance of all bursary holders per institution of higher learning [n=328]

Institutions	No passed	% passed	No failed	% failed	Total
University of Pretoria	37	88,1	5	11,9	42
University of Stellenbosch	24	92,3	2	7,7	26
University of Kwazulu-Natal	35	94,6	2	5,4	37
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	10	100,0	0	0,0	10
University of Limpopo	8	100,0	0	0,0	8
University of Zululand	7	100,0	0	0,0	7
University of Venda	8	100,0	0	0,0	8
University of Johannesburg	3	100,0	0	0,0	3

Institutions	No passed	% passed	No failed	% failed	Total
University of Witwatersrand	3	100,0	0	0,0	3
University of the Western Cape	5	100,0	0	0,0	5
China Agricultural University	9	100,0	0	0,0	9
Nanjing University	1	100,0	0	0,0	1
Jilling Agricultural University	6	100,0	0	0,0	6
Rhodes University	7	87,5	1	12,5	8
Nelson Mandela Metropolitan University	10	100,0	0	0,0	10
Tshwane University of Technology	7	100,0	0	0,0	7
Central University of Technology	1	100,0	0	0,0	1
Cape Peninsula University of Technology	12	100,0	0	0,0	12
Durban University of Technology	3	100,0	0	0,0	3
Eisenburg College	6	100,0	0	0,0	6
Fort Cox College	16	100,0	0	0,0	16
Grootfontein Agricultural Dev Institute	37	100,0	0	0,0	37
Phandulwazi High School	2	100,0	0	0,0	2
Kuschke Agricultural High School	1	100,0	0	0,0	1
Sophumelela S. S. School	1	100,0	0	0,0	1
Inkomazi High School	2	100,0	0	0,0	2
Masibimbane High School	2	100,0	0	0,0	2
Leshata Secondary School	2	100,0	0	0,0	2
Mampoi High School	1	100,0	0	0,0	1
Breda Combined School	1	100,0	0	0,0	1
Kgagatlou High School	2	100,0	0	0,0	2
Motswedi High School	1	100,0	0	0,0	1
Orinjezicht High	5	83,3	1	16,7	6
Diwiti High School	6	100,0	0	0,0	6
De Rust Futura Akademia	5	100,0	0	0,0	5
Glen Edward S. S. School	6	100,0	0	0,0	6
Umfundlana Combined School	5	100,0	0	0,0	5
Schaumburg Combined School	5	83,3	1	16,7	6
Oakdale Agricultural High School	1	100,0	0	0,0	1
Ndalisio S. S. School	3	100,0	0	0,0	3
Total	316	96,3	12	3,7	328

Table 12 shows that 316 bursary holders passed their end-of-year examinations and 12 failed. The highest failure rate was recorded at the University of Pretoria with five (5), followed by the University of Stellenbosch and KwaZulu-Natal with two and the rest with one.

Analysis of discontinuation of studies for 2014 bursary holders

Despite the comprehensive academic support given to bursary holders in 2014, 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 2014 academic year [n = 5]

Field of study	No. terminated owing to ill-health	No. Terminated owing to poor academic performance	No. terminated owing to misconduct	Total
B.V.Sc.	0	1	0	1



Field of study	No. terminated owing to ill-health	No. Terminated owing to poor academic performance	No. terminated owing to misconduct	Total
B.Sc. Food Science	0	1	0	1
Nat. Dipl. Food Technology	0	1	0	1
Higher Certificate Agriculture	0	0	1	1
M.Sc. Zoology and Aquatic Parasitology	1	0	0	1
Total	1	3	1	5

Table 13 shows that one B.V.Sc. and B.Sc. Food Science bursary holders at the University of Pretoria, one in National Diploma Food Technology at Durban University of Technology terminated their studies owing to personal challenges that made them unable to cope with their studies. One M.Sc. Zoology and Aquatic Parasitology at the University of the Western Cape discontinued studies owing to critical health problems. The table further shows that bursary contract of one Higher Certificate in Agriculture student at Elsenburg College was terminated by the department and the College owing to serious misconduct.

ANALYSIS OF BURSARY HOLDERS WHO COMPLETED THEIR STUDIES AT TERTIARY LEVEL IN 2014

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 2014 academic year, 56 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 2014 [n = 55]

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
B.V.Sc.	0	0	0	1	0	0,0	1	100,0	1
B.Sc. Viticulture and Oenology	2	0	0	1	2	66,7	1	33,3	3
B. Agric Viticulture	0	0	0	1	1	100,0	0	0,0	1
B.Sc. Bioresource Engineering	0	0	0	1	1	100,0	0	0,0	1
B.Sc. Agric, Economics	1	0	0	0	1	100,0	0	0,0	1
B.Sc. Food Science	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Genetics	2	0	0	0	2	100,0	0	0,0	2
B.Sc. Plant Pathology	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Soil Science	2	0	0	0	1	50,0	1	50,0	2
B.Sc. Agronomy	2	0	0	1	1	33,3	2	66,7	3
B.Sc. Pasture Science	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Ichthyology specialising in Aquaculture	1	0	0	0	1	100,0	0	0,0	1
B. Sc. Forestry Science	3	0	0	0	2	66,7	1	33,3	3
B. Sc. Forestry and Wood Science	1	0	0	0	0	0,0	1	100,0	1
Nat. Dipl. Forestry	1	0	0	0	0	0,0	1	100,0	1
Nat. Dipl. Food Technology	1	0	0	0	0	0,0	1	100,0	1
Nat. Dipl. Oceanography	2	1	0	0	1	33,3	2	66,7	3
Diploma in Forestry	2	0	0	0	0	0,0	2	100,0	2
Diploma in Agriculture	7	1	0	0	5	62,5	3	37,5	8
B. Tech. Forestry	1	0	0	0	1	100,0	0	0,0	1

Field of study	Race				Gender				Total
	African	Coloured	Indian	White	Male		Female		
	No.	No.	No.	No.	No.	%	No.	%	
B.Sc. Marine Biology (Hons)	0	2	0	0	0	0,0	2	100,0	2
B.Sc. Aquaculture (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Ichthyology specialising in Aquaculture(Hons)	0	0	0	1	0	0,0	1	100,0	1
B.Sc. Ichthyology and Fisheries Science (Hons)	1	0	0	0	0	0,0	1	100,0	1
B.Sc. Oceanography and Marine Biology (Hons)	0	1	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. Agronomy (international)	1	0	0	0	1	100,0	0	0,0	1
M.Sc. Rural Development (international)	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. 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. Zoology (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
Total	44	5	0	6	24	43,6	31	56,4	55

Table 14 indicates that 55 bursary beneficiaries, consisting of postgraduate and undergraduate students, successfully completed their studies in 2014. In terms of racial breakdown, 44 of the beneficiaries were Africans, five (5) were Coloureds and six (6) were Whites. In terms of gender, 24 males (43, 6%) and 31 females (56, 4%) completed their studies. The highest number of completion was recorded in Diploma in Agriculture with 8, followed by National Diploma in Oceanography and B.Sc. Forestry Science with 3 respectively.

Table 15: Analysis of the employment status of bursary holders who completed their studies in 2014 per field of study, race and gender [n = 55]

Field of study	Race				Gender		Total	Current status			
	African	Coloured	Indian	White	Male	Female		No. employed	No. unemployed	Name of Company/organisation	No. furthering studies (postgraduate)
	No.	No.	No.	No.	No.	No.					
B.V.Sc.	0	0	0	1	0	1	1	1	0	Standerton Animal Hospital	0
B.Sc. Bioresource Engineering	0	0	0	1	1	0	1	1	0	DAFF Internship	0
B.Sc. Agric. Economics	1	0	0	0	1	0	1	1	0	DAFF Internship	0
B.Sc. Viticulture and Oenology	2	0	0	1	2	1	3	1	0	Vrede & Lust	2
B. Agric. Viticulture	0	0	0	1	1	0	1	1	0	Potato Certification Service-Christiana	0
B.Sc. Food Science	1	0	0	0	0	1	1	0	0	-	1
B.Sc. Pasture Science	1	0	0	0	0	1	1	0	1	-	0
B.Sc. Agronomy	2	0	0	1	1	1	3	1	0	DAFF Internship	2



Field of study	Race				Gender		Total	Current status			
	African	Coloured	Indian	White	Male	Female		No. employed	No. unemployed	Name of Company/organisation	No. furthering studies (postgraduate)
	No.	No.	No.	No.	No.	No.					
B.Sc. Soil Science	2	0	0	0	1	1	2	1	0	DAFF Internship	1
B.Sc. Plant Pathology	1	0	0	0	0	1	1	0	0	-	1
B.Sc. Genetics	2	0	0	0	2	0	2	1	0	DAFF Internship	1
B.Sc. Ichthyology specialising in Aquaculture	1	0	0	0	1	0	1	1	0	DAFF Internship	0
B.Sc. Forestry	3	0	0	0	2	1	3	1	0	DAFF Internship	2
B.Sc. Forestry and Wood Science	1	0	0	0	0	1	1	0	0	-	1
Nat. Dipl. Food Technology	1	0	0	0	0	1	1	1	0	DAFF Internship	0
Nat. Dipl. Forestry	1	0	0	0	0	1	1	1	0	DAFF Internship	0
Nat. Dipl. Oceanography	2	1	0	0	1	2	3	0	0	-	3
Diploma in Forestry	2	0	0	0	0	2	2	2	0	DAFF Internship	0
Diploma in Agriculture	7	1	0	0	5	3	8	1	7	Horticulture S.A-Randfontein	0
B.Tech. Forestry	1	0	0	0	1	0	1	1	0	DAFF Internship	0
B.Sc. Marine Biology (Hons)	0	2	0	0	0	2	2	0	0	-	2
B.Sc. Aquaculture (Hons)	1	0	0	0	0	1	1	0	0	-	1
B.Sc. Ichthyology and Fisheries Science (Hons)	1	0	0	0	0	1	1	0	0	-	1
B.Sc. Oceanography and Marine Biology (Hons)	0	1	0	0	0	1	1	0	0	-	1
B.Sc. Ichthyology specialising in Aquaculture (Hons)	0	0	0	1	0	1	1	0	0	-	1
M.Sc. Soil Science	1	0	0	0	1	0	1	0	0	-	1
M.Sc Agronomy (international)	1	0	0	0	1	0	1	0	0	-	1
M.Sc. Rural Development (international)	1	0	0	0	0	1	1	0	1	-	0
M.Sc. Aquatic Breeding international)	1	0	0	0	0	1	1	1	0	ARC-Limpopo	0
M.Sc. Animal Science international)	2	0	0	0	2	0	2	2	0	The Chinese Cultural-Pretoria and Cape Peninsula University of Technology	0

Field of study	Race				Gender		Total	Current status			
	African	Coloured	Indian	White	Male	Female		No. employed	No. unemployed	Name of Company/organisation	No. furthering studies (postgraduate)
	No.	No.	No.	No.	No.	No.					
M.Sc. Crop Cultivation (international)	1	0	0	0	0	1	1	0	1	-	0
M.Sc. Plant Quarantine (international)	1	0	0	0	0	1	1	1	0	The Chinese Cultural-Pretoria	0
M.Sc. Zoology (international)	1	0	0	0	0	1	1	1	0	The Chinese Cultural-Pretoria	0
Ph.D. Agronomy (international)	2	0	0	0	1	1	2	2	0	University of Limpopo and Provincial Department of Limpopo	0
Total	44	5	0	6	24	31	55	22	11	-	22

Table 15 indicates the employment status of 55 bursary holders who completed their studies in 2014. The table shows that 22 out of 55 bursary holders who completed their studies at the end of the 2014 academic year secured employment, 11 could not secure employment while 22 furthered their studies (postgraduate).

ANALYSIS OF LEVEL OF STUDY OF THE 2014 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 2014 bursary holders [$n = 333$]

Field of study	Year of study							Total duration
	1	2	3	4	5	6	Total	
B.V.Sc.	9	6	6	2	5	1	29	6
B.Sc. Viticulture and Oenology	2	4	1	4	0	0	11	4
B. Agric. Viticulture	0	0	1	0	0	0	1	3
B.Sc. Bioresource Engineering	11	6	8	5	0	0	30	4
B.Sc. Agric. Economics	0	1	1	1	0	0	3	4
B.Sc. Food Science	2	3	2	1	0	0	8	4
B.Sc. Genetics	0	0	4	0	0	0	4	4
B.Sc. Geo-informatics	2	2	0	0	0	0	4	4
B.Sc. Plant Pathology	0	3	1	2	0	0	6	4
B.Sc. Soil Science	2	7	2	3	0	0	14	4
B.Sc. Agronomy	2	3	5	4	0	0	14	4
B.Sc. Plant Sciences	0	1	0	0	0	0	1	4
B.Sc. Pasture Science	0	0	1	1	0	0	2	4
B.Sc. Forestry Science	0	0	0	3	0	0	3	4
B.Sc. Forestry and Wood Science	0	4	1	1	0	0	6	4
B.Sc. Marine Biology	1	3	0	0	0	0	4	4



Field of study	Year of study							Total duration
	1	2	3	4	5	6	Total	
B.Sc. Ichthyology specialising in Aquaculture	0	1	1	0	0	0	2	4
Nat. Dipl. Forestry	7	1	1	0	0	0	9	3
Nat. Dipl. Food Technology	8	7	4	0	0	0	19	3
Nat. Dipl. Oceanography	0	0	5	0	0	0	5	3
Nat. Dipl. Agriculture	0	1	0	0	0	0	1	3
Diploma in Forestry	4	10	2	0	0	0	16	3
Diploma in Agriculture	5	19	13	0	0	0	37	3
Higher Certificate	6	0	0	0	0	0	6	3
National Senior Certificate	17	36	0	0	0	0	53	1
B.Tech. Forestry and Wood Technology	1	0	0	0	0	0	1	1
B.Sc. Marine Biology (Hons)	2	0	0	0	0	0	2	1
B.Sc. Ichthyology specialising in Aquaculture (Hons)	2	0	0	0	0	0	2	1
B.Sc. Ichthyology and Fisheries Science (Hons)	1	0	0	0	0	0	1	1
B.Sc. Oceanography and Marine Biology (Hons)	1	0	0	0	0	0	1	1
M.Tech. Agriculture	1	0	0	0	0	0	1	2
M.Tech. Oceanography	1	0	0	0	0	0	1	2
M.Sc. Marine Biology	2	0	0	0	0	0	2	2
M.Sc. Ichthyology	2	0	0	0	0	0	2	2
M.Sc. Environmental Science	1	0	0	0	0	0	1	2
M.Sc. Forestry and Natural Science	1	0	0	0	0	0	1	2
M.Sc. Biochemistry	1	1	0	0	0	0	2	2
M.Sc. Animal Science	1	0	0	0	0	0	1	2
M.Sc. Zoology	1	0	0	0	0	0	1	2
M.Sc. Zoology and Aquatic Parasitology	1	0	0	0	0	0	1	2
M.Sc. Aquaculture	1	0	0	0	0	0	1	2
M.Sc. Agriculture	0	1	0	0	0	0	1	2
M.Sc. Plant Pathology	0	1	0	0	0	0	1	2
M.Sc. Soil Science	0	1	0	0	0	0	1	2
M.Sc. Fisheries Science	0	1	0	0	0	0	1	2
M.Sc. Entomology	0	1	0	0	0	0	1	2
M.Sc. Food Science	0	1	0	0	0	0	1	2
M.Sc. Aquatic Breeding (international)	0	1	0	0	0	0	1	2
M.Sc. Agronomy (international)	0	1	0	0	0	0	1	2
M.Sc. Agric. Economics (international)	1	0	0	0	0	0	1	2
M.Sc. Animal Science (international)	1	2	0	0	0	0	3	2
M.Sc. Crop Cultivation (international)	0	1	0	0	0	0	1	2
M.Sc. Plant Quarantine (international)	2	1	0	0	0	0	3	2
M.Sc. Plant Nutrition (International)	1	0	0	0	0	0	1	2
M.Sc. Rural Development (international)	0	1	0	0	0	0	1	2
M.Sc. Zoology (International)	0	1	0	0	0	0	1	2
Ph.D. Rural Development (international)	0	1	0	0	0	0	1	3
Ph.D. Agronomy (international)	0	0	2	0	0	0	2	3

Field of study	Year of study							Total duration
	1	2	3	4	5	6	Total	
Ph.D. Pasture Science	1	0	0	0	0	0	1	3
D.Tech. Chemistry	0	0	1	0	0	0	1	3
Total	104	134	62	27	5	1	333	

Table 16 shows that 104 bursary beneficiaries were registered at first-year level, 134 at second-year level, 62 at third-year level and 27 at fourth-year level. The table further shows that five beneficiaries were registered at fifth level and one beneficiary at sixth-year (final year) of B.V.Sc.

REVENUE AND EXPENDITURE FOR 2014

For the 2014 academic year, the scheme received a budget of R19.1 million, which was administered as follows:

- R 15 927 000, 00: transferred to NSFAS for bursary holders in universities and universities of technology within South Africa;
- R 1 638 636, 00: transferred to DIRCO for bursary holders in universities in China; and
- R 1 500 000: administered by the Directorate: Financial Accounting (DAFF) for bursary holders in high schools and colleges of agriculture (South Africa).

The tables below show the analysis of expenditure incurred for implementation of the scheme during the 2014 academic year:

Table 17: Analysis of expenditure according to fields of study registered by all bursary holders for 2014 [n = 333]

Field of study	Total beneficiaries	Amount (R)				Total (R)
		African	Coloured	Indian	White	
B.V.Sc.	29	1 851 170,00	197 700,00	224 740,00	701 680,00	2 975 290,00
B.Sc. Viticulture and Oenology	11	700 573,00	192 832,00	0,00	90 874,00	984 279,00
B. Agric. Viticulture	1	0,00	0,00	0,00	51 381,00	51 381,00
B.Sc. Bioresource Engineering	30	2 238 253,00	0,00	0,00	90 525,00	2 328 778,00
B.Sc. Agric. Economics	3	230 749,00	0,00	0,00	0,00	230 749,00
B.Sc. Food Science	8	657 221,00	0,00	0,00	0,00	657 221,00
B.Sc. Genetics	4	347 851,00	0,00	0,00	0,00	347 851,00
B.Sc. Geo-informatics	4	172 025,00	0,00	91 580,00	91 040,00	354 645,00
B.Sc. Plant Pathology	6	454 446,00	0,00	0,00	0,00	454 446,00
B.Sc. Soil Science	14	963 619,00	0,00	0,00	0,00	963 619,00
B.Sc. Agronomy	14	796 369,00	0,00	0,00	101 982,00	898 351,00
B.Sc. Plant Sciences	1	54 462,00	0,00	0,00	0,00	54 462,00
B.Sc. Pasture Science	2	136 715,00	0,00	0,00	0,00	136 715,00
B.Sc. Forestry Science	3	319 927,00	0,00	0,00	0,00	319 927,00
B.Sc. Forestry and Wood Science	6	473 129,00	92 051,00	0,00	0,00	565 180,00
B.Sc. Marine Biology	4	315 056,00	0,00	0,00	0,00	315 056,00
B.Sc. Ichthyology specialising in Aquaculture	2	199 227,00	0,00	0,00	0,00	199 227,00
Nat. Dipl. Forestry	9	566 060,00	0,00	0,00	0,00	566 060,00



Field of study	Total beneficiaries	Amount (R)				Total (R)
		African	Coloured	Indian	White	
Nat. Dipl. Food Technology	19	1 123 944,00	0,00	0,00	0,00	1 123 944,00
Nat. Dipl. Oceanography	5	101 356,00	45 058,00	0,00	0,00	146 414,00
Nat. Dipl. Agriculture	1	65 126,00	0,00	0,00	0,00	65 126,00
Diploma in Forestry	16	433 190,00	0,00	0,00	0,00	433 190,00
Diploma in Agriculture	37	1 329 058,00	0,00	0,00	0,00	1 329 058,00
Higher Certificate	6	201 666,00	103 152,00	0,00	0,00	304 818,00
National Senior Certificate	53	361 735,24	106 651,00	0,00	15 000,00	483 386,24
B.Tech. Forestry and Wood Technology	1	21 030,00	0,00	0,00	0,00	21 030,00
B.Sc. Marine Biology (Hons)	2	0,00	53 180,00	0,00	0,00	53 180,00
B.Sc. Ichthyology specialising in Aquaculture (Hons)	2	18 916,00	37 255,00	0,00	0,00	56 171,00
B.Sc. Ichthyology and Fisheries Science (Hons)	1	37 255,00	0,00	0,00	0,00	37 255,00
B.Sc. Oceanography and Marine Biology (Hons)	1	0,00	44 515,00	0,00	0,00	44 515,00
M.Tech. Agriculture	1	18 861,00	0,00	0,00	0,00	18 861,00
M.Tech. Oceanography	1	0,00	6 550,00	0,00	0,00	6 550,00
M.Sc. Marine Biology	2	250,00	26 710,00	0,00	0,00	26 960,00
M.Sc. Ichthyology	2	34 600,00	0,00	0,00	0,00	34 600,00
M.Sc. Environmental Science	1	17 300,00	0,00	0,00	0,00	17 300,00
M.Sc. Forestry and Natural Science	1	0,00	0,00	0,00	14 985,00	14 985,00
M.Sc. Biochemistry	2	38 727,00	0,00	0,00	0,00	38 727,00
M.Sc. Animal Science	1	3 000,00	0,00	0,00	0,00	3 000,00
M.Sc. Zoology	1	10 917,00	0,00	0,00	0,00	10 917,00
M.Sc. Zoology and Aquatic Parasitology	1	26 710,00	0,00	0,00	0,00	26 710,00
M.Sc. Aquaculture	1	19 535,00	0,00	0,00	0,00	19 535,00
M.Sc. Agriculture	1	4 979,00	0,00	0,00	0,00	4 979,00
M.Sc. Plant Pathology	1	3 000,00	0,00	0,00	0,00	3 000,00
M.Sc. Soil Science	1	4 210,00	0,00	0,00	0,00	4 210,00
M.Sc. Fisheries Science	1	17 300,00	0,00	0,00	0,00	17 300,00
M.Sc. Entomology	1	3 000,00	0,00	0,00	0,00	3 000,00
M.Sc. Food Science	1	3 000,00	0,00	0,00	0,00	3 000,00
M.Sc. Aquatic Breeding (international)	1	60 215,00	0,00	0,00	0,00	60 215,00
M.Sc. Agronomy (international)	1	77 817,00	0,00	0,00	0,00	77 817,00
M.Sc. Agric. Economics (international)	1	76 558,00	0,00	0,00	0,00	76 558,00
M.Sc. Animal Science (international)	3	236 082,00	0,00	0,00	0,00	236 082,00
M.Sc. Crop Cultivation (international)	1	60 215,00	0,00	0,00	0,00	60 215,00
M.Sc. Plant Quarantine (international)	3	431 024,00	0,00	0,00	0,00	431 024,00
M.Sc. Plant Nutrition (International)	1	76 558,00	0,00	0,00	0,00	76 558,00
M.Sc. Rural Development (international)	1	151 100,00	0,00	0,00	0,00	151 100,00
M.Sc. Zoology (International)	1	80 218,00	0,00	0,00	0,00	80 218,00
Ph.D. Rural Development (international)	1	63 603,00	0,00	0,00	0,00	63 603,00
Ph.D. Agronomy (international)	2	325 246,00	0,00	0,00	0,00	325 246,00
Ph.D. Pasture Science	1	12 519,00	0,00	0,00	0,00	12 519,00

Field of study	Total beneficiaries	Amount (R)				Total (R)
		African	Coloured	Indian	White	
D.Tech. Chemistry	1	500,00	0,00	0,00	0,00	500,00
Total	333	16 027 172,24	905 654,00	316 320,00	1 157 467,00	18 406 613,24

Table 17 shows that R18 406 613, 24 was spent on the 2014 bursary beneficiaries. The highest expenditure of R2 975 290, 00 was recorded for B.V.Sc.

Table 18: Analysis of the 2014 expenditure for all bursary holders according to gender [n = 333]

Field of study	Total beneficiaries	Male: Amount (R)	Female: Amount (R)	Total (R)
B.V.Sc.	29	857 180,00	2 118 110,00	2 975 290,00
B.Sc. Viticulture and Oenology	11	304 271,00	680 008,00	984 279,00
B. Agric. Viticulture	1	51 381,00	0,00	51 381,00
B.Sc. Bioresource Engineering	30	1 425 441,00	903 337,00	2 328 778,00
B.Sc. Agric. Economics	3	150 667,00	80 082,00	230 749,00
B.Sc. Food Science	8	0,00	657 221,00	657 221,00
B.Sc. Genetics	4	249 419,00	98 432,00	347 851,00
B.Sc. Geo-informatics	4	78 510,00	276 135,00	354 645,00
B.Sc. Plant Pathology	6	163 310,00	291 136,00	454 446,00
B.Sc. Soil Science	14	213 033,00	750 586,00	963 619,00
B.Sc. Agronomy	14	221 036,00	677 315,00	898 351,00
B.Sc. Plant Sciences	1	0,00	54 462,00	54 462,00
B.Sc. Pasture Science	2	0,00	136 715,00	136 715,00
B.Sc. Forestry Science	3	208 528,00	111 399,00	319 927,00
B.Sc. Forestry and Wood Science	6	90 711,00	474 469,00	565 180,00
B.Sc. Marine Biology	4	77 593,00	237 463,00	315 056,00
B.Sc. Ichthyology specialising in Aquaculture	2	98 857,00	100 370,00	199 227,00
Nat. Dipl. Forestry	9	202 650,00	363 410,00	566 060,00
Nat. Dipl. Food Technology	19	283 705,00	840 239,00	1 123 944,00
Nat. Dipl. Oceanography	5	69 646,00	76 768,00	146 414,00
Nat. Dipl. Agriculture	1	0,00	65 126,00	65 126,00
Diploma in Forestry	16	198 595,00	234 595,00	433 190,00
Diploma in Agriculture	37	465 846,00	863 212,00	1 329 058,00
Higher Certificate	6	254 853,00	49 965,00	304 818,00
National Senior Certificate	53	162 846,30	320 539,94	483 386,24
B.Tech. Forestry and Wood Technology	1	21 030,00	0,00	21 030,00
B.Sc. Marine Biology (Hons)	2	0,00	53 180,00	53 180,00
B.Sc. Ichthyology specialising in Aquaculture (Hons)	2	0,00	56 171,00	56 171,00
B.Sc. Ichthyology and Fisheries Science (Hons)	1	0,00	37 255,00	37 255,00
B.Sc. Oceanography and Marine Biology (Hons)	1	0,00	44 515,00	44 515,00
M.Tech. Agriculture	1	0,00	18 861,00	18 861,00
M.Tech. Oceanography	1	0,00	6 550,00	6 550,00
M.Sc. Marine Biology	2	26 710,00	250,00	26 960,00
M.Sc. Ichthyology	2	17 300,00	17 300,00	34 600,00
M.Sc. Environmental Science	1	0,00	17 300,00	17 300,00



Field of study	Total beneficiaries	Male: Amount (R)	Female: Amount (R)	Total (R)
M.Sc. Forestry and Natural Science	1	14 985,00	0,00	14 985,00
M.Sc. Biochemistry	2	0,00	38 727,00	38 727,00
M.Sc. Animal Science	1	0,00	3 000,00	3 000,00
M.Sc. Zoology	1	10 917,00	0,00	10 917,00
M.Sc. Zoology and Aquatic Parasitology	1	0,00	26 710,00	26 710,00
M.Sc. Aquaculture	1	19 535,00	0,00	19 535,00
M.Sc. Agriculture	1	4 979,00	0,00	4 979,00
M.Sc. Plant Pathology	1	0,00	3 000,00	3 000,00
M.Sc. Soil Science	1	4 210,00	0,00	4 210,00
M.Sc. Fisheries Science	1	0,00	17 300,00	17 300,00
M.Sc. Entomology	1	0,00	3 000,00	3 000,00
M.Sc. Food Science	1	0,00	3 000,00	3 000,00
M.Sc. Aquatic Breeding (international)	1	0,00	60 215,00	60 215,00
M.Sc. Agronomy (international)	1	77 817,00	0,00	77 817,00
M.Sc. Agric. Economics (international)	1	0,00	76 558,00	76 558,00
M.Sc. Animal Science (international)	3	159 524,00	76 558,00	236 082,00
M.Sc. Crop Cultivation (international)	1	0,00	60 215,00	60 215,00
M.Sc. Plant Quarantine (international)	3	133 497,00	297 527,00	431 024,00
M.Sc. Plant Nutrition (International)	1	76 558,00	0,00	76 558,00
M.Sc. Rural Development (international)	1	0,00	151 100,00	151 100,00
M.Sc. Zoology (International)	1	0,00	80 218,00	80 218,00
Ph.D. Rural Development (international)	1	0,00	63 603,00	63 603,00
Ph.D. Agronomy (international)	2	154 474,00	170 772,00	325 246,00
Ph.D. Pasture Science	1	12 519,00	0,00	12 519,00
D.Tech. Chemistry	1	0,00	500,00	500,00
Total	333	6 562 133,30	11 844 479,94	18 406 613,24

Table 18 shows that the bursary expenditure was R6 562 133,30 for male beneficiaries and R11 844 479,94 for females.

Table 19: Breakdown of the 2014 expenditure for all bursary holders according to institutions [n = 333]

Institution	No. of awards	Amount spent (R)
University of Pretoria	43	3 857 600,00
University of Stellenbosch	26	2 198 587,00
University of KwaZulu-Natal	38	2 768 595,00
University of the Free State	8	602 050,00
University of Fort Hare	10	625 500,00
University of Limpopo	8	396 388,00
University of Cape Town	2	121 505,00
Rhodes University	8	342 937,00
University of the Western Cape	5	133 310,00
University of the Witwatersrand	3	295 898,00
University of Venda	8	502 262,00
University of Zululand	7	373 027,00
University of Johannesburg	3	221 607,00

Institution	No. of awards	Amount spent (R)
China Agricultural University	9	1 109 006,00
Jiling Agricultural University	6	469 416,00
Nanjing University	1	60 214,00
Cape Peninsula University of Technology	12	489 773,00
Tshwane University of Technology	7	408 069,00
Nelson Mandela Metropolitan University	10	587 090,00
Durban University of Technology	5	223 085,00
Central University of Technology	1	18 861,00
Eisenburg College of Agriculture	7	356 199,00
Grootfontein Agricultural Development Institute	37	1 329 058,00
Fort Cox College of Agriculture and Forestry	16	433 190,00
Breda Combined School	1	7 800,00
De Rust Futura Akademia	5	60 000,00
Diwiti High School	7	35 877,80
Glen Edward Secondary School	6	81 000,00
Inkomazi High School	2	23 473,80
Kgagatlou High School	2	18 600,00
Kuschke Agric High School	1	12 395,00
Leshata Secondary School	2	25 500,00
Mampoi High School	1	9 700,00
Masibumbane High School	2	29 054,00
Motswedi High School	1	15 000,00
Ndaliso Secondary School	2	7 967,00
Oakdale Agric High School	1	15 000,00
Oranjezicht High School	6	32 151,00
Phandulwazi High School	2	22 900,00
Schaumburg Combined School	6	25 398,00
Sophumelela Secondary School	1	14 973,64
Umfundlana Combined School	5	46 596,00
Total	333	18 406 613,24

Table 19 above shows that the total expenditure incurred at various institutions was R18 406 613,24. The highest expenditure recorded was R3 857 600,00 at the University of Pretoria, followed by R2 768 595,00 at the University of KwaZulu-Natal and R2 198 587,00 at the University of Stellenbosch.

IMPACT ANALYSIS AND RETURN ON INVESTMENT ON THE IMPLEMENTATION OF EXTERNAL BURSARY SCHEME (2004–2014)

This section provides a comprehensive picture on how far has the department went in increasing the pool of scientists, engineers, professionals, technicians etc in the sector since the inception of the External Bursary Scheme in 2004 -2014. The section further articulates the investments made by DAFF on the implementation of the scheme and measure the return thereof.

The number of bursaries awarded by DAFF to young people from previously disadvantaged, poverty stricken and impoverished rural communities over the years, against those who completed their studies is also analysed to establish the extend of the impact of the implementation of the scheme on the lives of the poor.

In tracking of beneficiaries of the scheme, a comprehensive information and knowledge management system on



bursary holders who completed their studies and their whereabouts was developed in 2004 and continuously updated annually.

Summary of total applications received against bursaries awarded based on allocated budget from 2004-2014.

Table 20: Number of applications received against bursaries awarded from 2004-2014.

Period	Applications received			Total bursaries awarded	Total relevant applications not funded	Budget (R)
	Relevant	Irrelevant	Total			
2004/05	236	580	816	67	169	2 912 535.00
2005/06	720	507	1227	88	169	4 103 960.00
2006/07	521	673	1104	67	454	8 385 715.00
2007/08	663	417	1080	50	613	8 919 300.00
2008/09	681	724	1405	92	589	10 510 734.00
2009/10	635	584	1219	92	543	10 277 537.00
2010/11	332	584	916	86	246	10 387 758.94
2011/12	723	810	1533	126	597	13 181 674.57
2012/13	883	1740	2623	89	794	13 242 583.52
2013/14	1003	1015	2018	109	894	15 449 935.52
2014/15	1054	1742	2796	137	917	18 406 613.24
Total	7451	9376	16827	1003	6448	115 778 346.70

Analysis of information contained in the table above clearly demonstrate that young people are interested in careers in agriculture, forestry and fisheries judging by 7 451 relevant applications received from 2004-2014 from a pool of 16 827 applications received. The picture painted above clearly articulates the impact made by the DAFF Career Awareness Programme on the ground in promoting careers in agriculture, forestry and fisheries among school going youth particularly in rural areas.

The challenge depicted by the table above remain to be the limited budget of the scheme judging by 6 448 (86.0%) of relevant applications from 2004-2014 which could not be funded by DAFF External Bursary Scheme. This shortcoming, defeats the very end purpose of attracting young people into agriculture, forestry and fisheries careers. The scores (6 448) of young people with good grades (symbols) in Mathematics and Physical Science who were regretted by DAFF due to budget constrains were probably lost into other sectors like mining, telecommunication, electrical, mechanical etc because funding for students with such grades is always adequate in these sectors

It is worth noting that the pool of students with good symbols in Mathematics and Physical Science is limited and continues to shrink. Therefore losing potential students from this category to other sectors due to limited budget draw the agriculture, forestry and fisheries sectors further backwards and downwards into the negative and make it less attractive to young people.

Summary of beneficiaries of the External Bursary Scheme from 2004 - 2014.

Table 21: Summary of beneficiaries of the External Bursary Scheme from 2004 to 2014 [n =1003]

Field 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	2014/15		
B.V.Sc.	18	16	7	6	6	9	4	10	10	13	11	110	46
B.Sc. Bioresource Engineering	4	8	9	8	8	5	6	10	12	6	13	89	25
B.Sc. Viticulture and Oenology	12	6	7	3	9	1	2	3	2	4	3	52	17
B. Agric. Viticulture	10	9	2	1	3	1	2	4	4	0	0	36	19

Field 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	2014/15		
B.Sc. Agric. Economics	0	10	7	3	19	10	0	1	0	1	0	51	34
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	5	4	40	23
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	8
B.Sc. Entomology	0	0	0	0	0	0	0	1	1	0	0	2	0
B.Sc. Plant Pathology	0	0	0	0	0	0	1	2	1	2	2	8	2
B.Sc. Plant Science	0	0	0	0	0	0	0	0	0	1	0	1	0
B.Sc. Pasture Science	0	0	0	0	0	0	0	9	2	0	0	11	9
B.Sc. Agronomy	0	0	0	0	0	0	0	4	2	2	10	18	7
B.Sc. Soil Science	0	0	0	0	0	0	2	4	2	2	11	21	8
B.Sc. Forestry/Wood Science	0	0	0	0	0	0	21	10	1	3	2	37	18
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	3	3	6	2
B.Sc. Marine Biology	0	0	0	0	0	0	0	0	1	5	2	8	3
B.Sc. Oceanography and Marine Biology	0	0	0	0	0	0	0	0	2	1	0	3	2
B.Sc. Ichthyology specialising in Aquaculture	0	0	0	0	0	0	0	2	0	2	0	4	3
Nat. Dipl. Agric. Management	0	0	0	0	0	1	0	0	0	0	0	1	0
Nat. Dipl. Agriculture	0	0	0	0	0	0	0	0	0	1	0	1	0
Nat. Dipl. Food Technology	0	0	0	0	7	8	0	5	2	3	15	40	33
Nat. Dipl. Forestry	0	0	0	0	0	0	15	3	3	1	8	30	16
Nat. Dipl. Oceanography	0	0	0	0	0	0	0	2	2	2	0	6	3
Nat. Dipl. Veterinary Technology	6	0	0	0	0	0	0	0	0	0	0	6	4
Nat. Dipl. Civil Engineering	0	0	3	0	0	0	0	0	0	0	0	3	3
Nat. Dipl. Mechanical Engineering	0	0	0	0	0	1	0	0	0	0	0	1	1
Diploma in Agriculture	7	4	10	11	10	24	22	11	7	22	13	141	75
Diploma in Forestry	0	0	0	0	0	0	0	0	0	9	8	17	2
Higher Certificate	0	0	0	0	0	0	0	0	0	0	6	6	0
Postgraduate Diploma in Higher Education	0	0	0	0	0	0	0	0	1	0	0	1	1
B. Tech.	10	12	6	2	2	7	5	5	1	1	1	52	29
Honours	0	4	2	2	7	8	0	7	5	5	6	46	44
M. Tech.	0	0	0	0	0	0	0	4	4	1	2	11	8
M.Sc.	0	13	9	5	5	10	0	17	16	13	16	104	82
D. Tech. Chemistry	0	0	0	0	0	0	0	0	0	1	0	1	0
Ph.D.	0	2	1	0	0	0	1	5	1	0	1	11	5
Total beneficiaries	67	88	67	50	92	92	86	126	89	109	137	1003	537



Field 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			2014/15
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	18 406 613,24	115 778 346,70	-

Analysis of Table 21 above indicates that in total, 1003 young people benefitted from the scheme since its inception in 2004 and 537 successfully completed their tertiary qualifications. The table clearly shows the contribution the department has made to continuously increase the pool of researchers, scientists, skilled professionals, technicians, engineers etc in the sector.

The table further shows that the highest number of beneficiaries was recorded in the following fields of study: Diploma in Agriculture (141); B.Sc. Veterinary Science (110); M.Sc (104) B.Sc. Bioresource Engineering (89); B.Sc. Viticulture and Oenology (52); B.Sc. Agricultural Economics and B. Tech. with (52) respectively; Honours (46) and Nat. Dipl. Food Technology (40). The total amount spent on the implementation of the bursary scheme from 2004 to 2014 is R115 778 346, 70.

Analysis of the whereabouts of the bursary holders who completed their studies from 2004 - 2014.

Table 22: Analysis of the whereabouts of bursary holders who completed their studies from 2004 to 2014 [n = 537]

Field of study	Total completed	Employment status						Total
		DAFF	Other National Government Departments	Provincial Government Departments	Parastatals	Private Sector	Unemployed/Furthered studies outside DAFF	
B.V.Sc.	46	16	0	6	2	22	0	46
B.Sc. Bioresource Engineering	25	10	0	5	4	5	1	25
B.Sc. Viticulture and Oenology	17	0	0	1	1	15	0	17
B. Agric. Viticulture	19	0	0	3	1	10	5	19
B.Sc. Agric. Economics	34	6	1	4	1	3	19	34
B.Com. Agric. Economics	1	0	0	0	0	1	0	1
B.Sc. Food Science	23	1	0	1	0	11	10	23
B.Sc. Genetics	3	1	0	0	1	0	1	3
B.Sc. Biotechnology	8	1	0	0	3	3	1	8
B.Sc. Plant Pathology	2	0	0	0	0	0	2	2
B.Sc. Pasture Science	9	0	0	1	1	0	7	9
B.Sc. Agronomy	7	2	0	0	0	0	5	7
B.Sc. Soil Science	8	1	0	1	0	0	6	8
B.Sc. Forestry/Wood Science	18	1	0	0	1	6	10	18
B.Sc. Geology Science	1	0	0	0	0	1	0	1
B.Sc. Geo-informatics	2	0	0	0	0	1	1	2
B.Sc. Marine Biology	3	0	0	0	0	0	3	3
B.Sc. Oceanography and Marine Biology	2	0	0	0	0	0	2	2

Field of study	Total completed	Employment status							Total
		DAFF	Other National Government Departments	Provincial Government Departments	Parastatals	Private Sector	Unemployed/Furthered studies outside DAFF		
B.Sc. Ichthyology specialising in Aquaculture	3	1	0	0	0	0	2	3	
Nat. Dipl. Food Technology	33	1	0	0	0	23	9	33	
Nat. Dipl. Forestry	16	4	0	0	0	4	8	16	
Nat. Dipl. Oceanography	3	2	0	0	0	0	1	3	
Nat. Dipl. Veterinary Technology	4	0	0	1	3	0	0	4	
Nat. Dipl. Civil Engineering	3	0	0	2	0	1	0	3	
Nat. Dipl. Mechanical Engineering	1	0	0	0	0	1	0	1	
Diploma in Agriculture	75	1	0	11	2	14	47	75	
Diploma in Forestry	2	2	0	0	0	0	0	2	
Postgraduate Diploma in Higher Education	1	1	0	0	0	0	0	1	
B. Tech.	29	4	0	1	2	18	4	29	
Honours	44	7	0	3	2	12	20	44	
M. Tech.	8	0	0	0	4	2	2	8	
M.Sc.	82	11	0	22	18	16	15	82	
Ph.D.	5	0	1	2	2	0	0	5	
Total beneficiaries	537	73	2	64	48	169	181	537	

The table above shows the whereabouts of the 537 bursary beneficiaries who completed their studies. Of this total, the private sector appointed majority (169) of the bursary holders followed by DAFF with 73, Provincial Government Departments with 64, Parastatals with 48.

Table 23: Summary of beneficiaries of the External Bursary Scheme from 2004 to 2014 per province [n =1003]

Province	Year												Total
	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15		
Eastern Cape	3	16	6	4	12	21	27	21	19	26	31	186	
Free State	0	0	1	1	4	5	3	5	6	3	3	31	
Gauteng	7	14	11	5	10	7	5	14	7	11	12	103	
KwaZulu-Natal	11	22	28	26	30	21	17	23	11	29	31	249	
Limpopo	9	16	5	3	9	8	8	20	22	18	22	140	
Mpumalanga	2	2	4	0	9	6	6	6	5	6	11	57	
North West	14	6	7	4	11	6	3	8	7	5	5	76	
Northern Cape	2	4	0	4	3	11	3	11	1	2	5	46	
Western Cape	19	8	5	3	4	7	14	18	11	9	17	115	
Total	67	88	67	50	92	92	86	126	89	109	137	1003	



The table above shows that the highest number of beneficiaries (249) came from KwaZulu-Natal while the lowest number (31) came from Free State.

Table 24: Summary of beneficiaries of the External Bursary Scheme from 2004 to 2014 per race and gender [n =1003]

Years	Race				Gender		Total
	African	Coloured	Indian	White	Male	Female	
2004/05	41	12	2	12	33	34	67
2005/06	54	19	4	11	40	48	88
2006/07	54	4	8	1	32	35	67
2007/08	39	4	4	3	28	22	50
2008/09	78	7	7	0	45	47	92
2009/10	72	12	8	0	38	54	92
2010/11	63	7	5	11	48	38	86
2011/12	107	9	2	8	55	71	126
2012/13	77	6	0	6	33	56	89
2013/14	95	7	3	4	33	76	109
2014/15	120	11	0	6	45	92	137
Total	800	98	43	62	430	573	1003

The table above shows that 1003 beneficiaries benefitted from the scheme since inception in 2004 to 2014. The highest number of beneficiaries were Africans (800) followed by Coloureds with 98 and then by whites and Indians with 62 and 43 respectively. In terms of gender, females were in majority with 573 followed by males with 430.

ANALYSIS OF EXTERNAL BURSARIES AWARDED BY PROVINCIAL DEPARTMENTS OF AGRICULTURE DURING THE 2014 ACADEMIC YEAR

Mpumalanga Department of Agriculture, Rural Development and Land Administration

Table 25: Breakdown of the end-of-year performance of bursary holders sponsored by the Mpumalanga Department of Agriculture, Rural Development and Land Administration in 2014 [n = 53]

Fields of study	Race									Results				Total awards	
	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.V.Sc.	4	4	0	0	0	0	0	0	0	1	1	0	4	1	5
B.Sc. Agricultural Engineering	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Crop Science	28	28	0	0	0	0	0	0	0	0	0	0	24	4	28
B.Sc. Animal Science	4	4	0	0	0	0	0	0	0	0	0	0	4	0	4
B.Sc. Agronomy	2	2	0	0	0	0	0	0	0	0	0	0	2	0	2
B.Sc. Agricultural Economics	2	2	0	0	0	0	0	0	0	0	0	0	2	0	2
B.Sc. Aquaculture/Ichthyology	1	1	0	0	0	0	0	0	0	1	1	0	2	0	2

Nat. Dipl. Animal Health	3	3	0	0	0	0	0	0	0	0	0	0	3	0	3
Nat. Dipl. Commercial Mixed Farming	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	0	1	1
Nat. Dipl. Veterinary Nursing	1	1	0	0	0	0	0	0	0	1	1	0	2	0	2
B. Tech. Forestry	2	2	0	0	0	0	0	0	0	0	0	0	2	0	2
Total	50	50	0	0	0	0	0	0	0	3	3	0	47	6	53

The table above shows that out of 53 bursary beneficiaries, 47 passed while six (6) failed the end-of-year examinations.

KwaZulu-Natal Department of Agriculture and Environmental Affairs

Table 26: Breakdown of the end-of-year performance of bursaries sponsored by the KwaZulu-Natal Department of Agriculture and Environmental Affairs in 2014 [n =70]

Field of study	Race												Results		Total awards
	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. Agric Extension and Rural Resource Management	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1
B.Sc. Agric. Management	10	10	0	0	0	0	0	0	0	0	0	0	10	0	10
B.Sc. Agric. Engineering	2	2	0	0	0	0	0	0	0	0	0	0	2	0	2
B.Sc. Agric. Agribusiness	3	3	0	0	0	0	0	0	0	0	0	0	3	0	3
B.Sc. Agronomy	9	8	1	0	0	0	0	0	0	0	0	0	8	0	9
B.Sc. Agric. Animal Science	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Agric. Economic	6	3	3	0	0	0	0	0	0	1	1	0	3	0	6
B.Sc. Biochemistry and Microbiology	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Consumer Science, Extension and Rural Development	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
B.Sc. Environmental Science	4	4	0	0	0	0	0	0	0	0	0	0	4	0	4
B.Sc. Environmental Management	2	2	0	0	0	0	1	0	1	0	0	0	3	0	3
B.Sc. Environmental Science Hydrology	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Genetics and Microbiology	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Hydrology and Microbiology	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Hydrology and Chemistry	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. Soc. Sci Environmental Management	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Plant Pathology	2	2	0	0	0	0	0	0	0	0	0	0	2	0	2
B.Sc. Chemistry and Chemical Technology	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1



Field of study	Race												Results		Total awards
	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.V.Sc.	2	2	0	0	0	0	4	4	0	6	6	0	12	0	12
B.Sc. Agric. Horticulture	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
LLB. Environmental Legal Compliance	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
Nat. Dipl. Animal Health	3	3	0	0	0	0	0	0	0	0	0	0	3	0	3
Nat. Dipl. Civil Engineering	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
Total	57	52	5	0	0	0	6	5	1	7	7	0	64	0	70

The table above shows that out of 70 bursary beneficiaries, 64 passed their end-of-year examinations and six (6) discontinued their studies.

Limpopo Department of Agriculture

Table 27: Breakdown of the end-of-year performance of bursary holders sponsored by the Limpopo Department of Agriculture in 2014 [n =61]

Field 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.V.Sc.	20	20	0	0	0	0	0	0	0	9	9	0	24	5	29
B.Sc. Food Science	5	5	0	0	0	0	0	0	0	0	0	0	4	1	5
B.Sc. Agricultural Engineering	9	9	0	0	0	0	0	0	0	0	0	0	8	1	9
B.Sc. Animal Production	2	2	0	0	0	0	0	0	0	0	0	0	1	1	2
B.Sc. Horticulture	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Animal Health	15	15	0	0	0	0	0	0	0	0	0	0	15	0	15
Total	52	52	0	0	0	0	0	0	0	9	9	0	53	8	61

The table above shows that out of 61 bursary beneficiaries, 53 passed while 8 failed their end-of-year examinations.



Table 28: Breakdown of the end-of-year performance of bursary holders sponsored by the Western Cape Department of Agriculture in 2014 [n =122]

Field 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.V.Sc.	0	0	0	2	2	0	1	1	0	1	1	0	4	0	4
B.Sc. Civil Engineering	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Soil Science	2	1	1	0	0	0	0	0	0	0	0	0	1	0	2
B.Sc. Food Science	0	0	0	2	2	0	0	0	0	0	0	0	2	0	2
B.Sc. Viticulture and Oenology	0	0	0	1	1	0	0	0	0	0	0	0	1	0	1
B. Agriculture	2	2	0	6	5	1	0	0	0	10	10	0	17	0	18
Nat. Dipl. Horticulture	0	0	0	1	1	0	0	0	0	0	0	0	1	0	1
Nat. Dipl. Farm Management	25	25	0	12	12	0	0	0	0	0	0	0	37	0	37
Higher Certificate: Agriculture	20	20	0	9	9	0	0	0	0	1	1	0	30	0	30
National Senior Certificate	0	0	0	7	7	0	0	0	0	0	0	0	7	0	7
B. Tech. Civil Engineering	0	0	0	5	5	0	0	0	0	0	0	0	5	0	5
Nat. Dipl. Agriculture	2	2	0	2	2	0	0	0	0	0	0	0	4	0	4
M.Sc. Inst. Agrarian	1	1	0	1	1	0	0	0	0	0	0	0	2	0	2
M.Sc. Ecology	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1
M. Tech. Food Technology	0	0	0	1	1	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	1	0	1
M.Sc. Agric Economics	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1
M.Sc. Microbiology	2	1	1	1	1	0	0	0	0	0	0	0	2	0	3
M.Sc. Agronomy	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
Total	56	54	2	51	50	1	1	1	0	14	14	0	119	0	122

The table above shows that out of 122 beneficiaries, 119 passed their end-of-year examinations and three (3) discontinued their studies.



North West Department of Agriculture and Rural Development

Table 29: Breakdown of the end-of-year performance of bursary holders sponsored by the North West Department of Agriculture in 2014 [n =23]

Field of study	Race											Results		Total awards	
	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.V.Sc.	1	1	0	0	0	0	0	0	0	7	7	0	8	0	8
B.Sc. Microbiology	6	6	0	0	0	0	0	0	0	0	0	0	6	0	6
B.Sc. Soil Conservation, Irrigation and Drainage	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1
B.Sc. Genetics and Bacteriology	1	1	0	0	0	0	0	0	0	1	1	0	1	0	2
B.Sc. Agric Economics	5	5	0	0	0	0	0	0	0	0	0	0	5	0	5
Nat. Dipl. Crop Science	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
Total	14	14	0	0	0	0	0	0	0	9	9	0	23	0	23

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

Gauteng Department of Agriculture

Table 30: Breakdown of the end-of-year performance of bursary holders sponsored by the Gauteng Department of Agriculture in 014 [n =52]

Field of study	Race											Results		Total Awards	
	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.V.Sc.	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Biochemistry	1	1	0	0	0	0	1	1	0	1	1	0	3	0	3
B.Sc. Biotechnology	3	3	0	0	0	0	1	1	0	1	1	0	5	0	5
B.Sc. Genetics	2	2	0	0	0	0	0	0	0	0	0	0	2	0	2
Nat. Dipl. Biotechnology	14	14	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	1	0	1
B. Tech. Biotechnology	16	16	0	0	0	0	0	0	0	0	0	0	16	0	16
M.Sc. Biotechnology	5	5	0	1	1	0	2	2	0	2	2	0	10	0	10
Total	43	43	0	1	1	0	4	4	0	4	4	0	52	0	52

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



Northern Cape Department of Agriculture

Table 31: Breakdown of the end-of-year performance of bursary holders sponsored by the Northern Cape Department of Agriculture in 2014 [n =30]

Fields of study	Race											Results		Total awards	
	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.V.Sc.	0	0	0	0	0	0	0	0	0	2	2	0	2	0	2
B.Sc. Agric. Economics	5	5	0	0	0	0	0	0	0	0	0	0	4	1	5
B.Sc. Agric. Management	7	7	0	3	3	0	0	0	0	0	0	0	8	2	10
B.Sc. Animal Science	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Animal Health	2	2	0	0	0	0	0	0	0	0	0	0	2	0	2
B.Sc. Soil Science	2	2	0	1	1	0	0	0	0	0	0	0	3	0	3
B.Sc. Biological Science	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1
Nat. Dipl. Crop Science	1	1	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	1	0	1
Nat. Dipl. Civil Engineering	3	3	0	1	1	0	0	0	0	0	0	0	3	1	4
Total	22	22	0	5	5	0	0	0	0	3	3	0	26	4	30

The table above shows that 26 bursary beneficiaries passed while four (4) failed their end-of-year examinations.

Eastern Cape Department of Rural Development and Agrarian Reform

Table 32: Breakdown of the end-of-year performance of bursary holders sponsored by the Eastern Cape Department of Rural Development and Agrarian Reform in 2014 [n =41]

Field of study	Race											Results		Total awards	
	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.V.Sc.	6	6	0	0	0	0	1	1	0	2	2	0	9	0	9
B.Sc. Agric. Economics	5	5	0	0	0	0	0	0	0	0	0	0	5	0	5
B.Sc. Animal Production	5	5	1	0	0	0	0	0	0	0	0	0	4	0	5
B.Sc. Civil Engineering	1	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	1	1
B.Sc. Soil Science	4	4	0	0	0	0	0	0	0	0	0	0	4	0	4
B.Sc. Animal & Pasture	3	3	0	0	0	0	0	0	0	0	0	0	3	0	3
B.Sc. Agric. Extension	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
B.Sc. Plant Science	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
Nat. Dipl. Animal Production	4	4	0	0	0	0	0	0	0	0	0	0	4	0	4
Nat. Dipl. Crop Production	3	3	0	0	0	0	0	0	0	0	0	0	3	0	3



Field of study	Race											Results		Total awards	
	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			
Nat. Dipl. Forestry	1	1	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	1	0	1
Nat. Dipl. Agri. Business	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1
Nat. Dipl. Animal Health	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total	38	36	2	0	0	0	1	1	0	2	2	0	38	1	41

The table above shows that out of 41 bursary beneficiaries, 38 passed, one (1) failed and two (2) dropped out.

CONSOLIDATED SUMMARY OF EXTERNAL BURSARIES AWARDED BY PROVINCIAL DEPARTMENTS OF AGRICULTURE DURING THE 2014 ACADEMIC YEAR

Table 33: Consolidated summary of end-of-year performance of bursary holders sponsored by provincial departments of agriculture [n =452]

Field of study	Race											Results		Total awards	
	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			
Mpumalanga	50	50	0	0	0	0	0	0	0	3	3	0	47	6	53
Kwazulu-Natal	57	52	5	0	0	0	6	5	1	7	7	0	64	0	70
Limpopo	52	52	1	0	0	0	0	0	0	9	9	0	53	8	61
Western Cape	56	54	2	51	50	1	1	1	0	14	14	0	119	0	122
North West	14	14	0	0	0	0	0	0	0	9	9	0	23	0	23
Gauteng	43	43	0	1	1	0	4	4	0	4	4	0	52	0	52
Northen Cape	22	22	0	5	5	0	0	0	0	3	3	0	26	4	30
Eastern Cape	38	36	2	0	0	0	1	1	0	2	2	0	38	1	41
Total	332	323	10	57	56	1	12	11	1	51	51	0	422	19	452

The table above shows that out of 452 bursary beneficiaries sponsored by provincial departments of agriculture, 422 passed, 19 failed and 11 dropped out

CONCLUSION

This report provides an overview of activities executed during the 2014 academic year in terms of the implementation of the DAFF's External Bursary Scheme. The report further indicates both success stories and challenges.

During the 2014 academic year, R19.1 million was budgeted to implement the scheme and 160 new bursaries comprising of 111 undergraduate, 26 postgraduate and 23 high schools were awarded in addition to 173 existing bursary holders to make a total of 333 bursary holders supported. From the 333 bursary holders supported, 328 wrote

their final year examination and 316 (96, 3%). Of this 316, 55 of them completed their studies, which is an indication of good return on investment.

The other success indicator is the 16 827 applications received in response to bursary opportunities advertised by DAFF for the past 10 years (2004-2014). This clearly demonstrate that young people are interested in careers in agriculture, forestry and fisheries and further articulates the impact made by the DAFF Career Awareness Programme on the ground in promoting careers in agriculture, forestry and fisheries among school going youth particularly in rural areas.

This report further indicates that 1003 young people were financially supported since inception of the scheme in 2004 and 537 successfully completed their studies and DAFF appointed 73 of them while others were absorbed by the sector. Notwithstanding the good work done by the department in financially supporting needy and deserving students to further their studies, the following challenges exist:

- **Limited budget of the scheme:** out of 7451 relevant applications received for the past 10 years (2004-2014) in response of the adverts, DAFF awarded only 1003 bursaries regretting 6448 applications due to budget constraints. This shortcoming, defeats the very end purpose of attracting young people into agriculture, forestry and fisheries careers.
- The 6448 young people with good grades (symbols) in Mathematics and Physical Science who were regretted by DAFF due to budget constrains were probably lost into other sectors like mining, telecommunication, electrical, mechanical etc because funding for students with such grades is always adequate in these sectors.
- It is worth noting that the pool of students with good symbols in Mathematics and Physical Science is limited and continues to shrink. Therefore losing potential students from this category to other sectors due to limited budget draw the agriculture, forestry and fisheries sectors further backwards and downwards into the negative and make it less attractive to young people.
- The other major challenge is appointment of completed bursary holders by DAFF judging by 73 bursary holders appointed over the past ten years. Every year, scores of bursary holders who complete their studies and could not secure permanent employment are appointed as DAFF interns for 12 months. Thereafter they are released into the sector to search for work or opportunities to start their own businesses.

It is recommended that:

- The budget of the scheme be increased steadily to be at least R30 million by 2020. This will partially address the high volume of relevant applications with good grades in Mathematics and Physical Science that are regretted annually due to limited budget.
- Secondly, DAFF should set budget aside to implement the graduate placement programme, where completed DAFF bursary holders will be appointed on contract for the period equivalent to the number of years the bursary was allocated to maximise return on investment.

Notes

A series of horizontal dotted lines for writing notes.

