



# ARDRI



## THIRD ANNUAL REPORT

1 January 1980 to 31 December 1980

University of Fort Hare  
*Together in Excellence*

AGRICULTURAL AND RURAL DEVELOPMENT  
RESEARCH INSTITUTE  
FORT HARE

Report No. 2/81

NOTES

AGRICULTURAL AND RURAL DEVELOPMENT  
RESEARCH INSTITUTE (ARDRI)  
UNIVERSITY OF FORT HARE

From the Control Committee, the University  
by the addition of the words... "and rural"....  
The Institute's name be changed to read... "Agricultural and Rural  
Development Research Institute.

For various reasons, not least of which are production costs, this  
report is available in English only.



THIRD ANNUAL REPORT

University of Fort Hare  
*Together in Excellence*

1 January 1980  
to  
31 December 1980

ALICE  
REPUBLIC OF SOUTH AFRICA  
1980

ALICE  
REPUBLIC OF SOUTH AFRICA  
5700

NOTES

Following a recommendation from the Control Committee, the University Council has approved that, by the addition of the words... "and rural"..., the Institute's name be changed to read... "Agricultural and Rural Development Research Institute.

INTRODUCTION

For various reasons, not least of which are production costs, this report is available in English only.

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Organisation and Management

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REPUBLIC OF SOUTH AFRICA

1980

## INTRODUCTION

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The year started with a well-attended "Open Day" with which was combined a successful meeting of ARDRI's Advisory Council.

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Funds, both in the form of donations and project linked monies appeared to become more freely available and the number of projects in the different areas increased concomitantly.

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## INTRODUCTION

Although there will be those who will maintain that much more could have been achieved during the year under review, it affords much pleasure to be in a position to present a report which, in every respect, indicates that the Institute has made good progress and has maintained a steady growth during 1980.

The year started with a well-attended "Open Day" with which was combined a successful meeting of ARDRI's Advisory Council.

Funds, both in the form of donations and project linked monies appeared to become more freely available and the number of projects in the different categories increased concomitantly.

"ARDRINEWS", the Institute's newsletter, made its debut. In spite of teething troubles, many hundreds of copies reached readers in the developing regions of Southern Africa and overseas. Indications are that the four editions published were generally well received.

The Institute moved into better accommodation and was better able to house its staff which had increased slightly albeit only as a result of the employment of part-time personnel.

It would appear as though even the financial situation of ARDRI showed some improvement. The fact that permission was granted to invest project and other funds until required has helped to strengthen ARDRI's position and render it increasingly able to help itself financially.

Whereas there are still many and varied problems that require urgent attention both internally and externally, there is every reason to approach 1981 with confidence, using as springboard the many good foundations laid during 1980.

## A. ORGANISATION OF THE INSTITUTE

### 1. ORIGIN AND OBJECTS

The Agricultural and Rural Development Research Institute (ARDRI) of the University of Fort Hare officially commenced operations on 1 April, 1977.

Situated in the Ciskei, the Institute was established to provide assistance to less developed areas in Southern Africa in the form of specialist advice and research into the wide range of socio-economic and technical problems which are putting a brake on the rate of development of the peoples involved.

### 2. ORGANISATION AND MANAGEMENT

Following a recent review of the Institute's Constitution and modus operandi, it was decided to streamline the functioning of ARDRI by giving its Executive Committee more executive status so as to facilitate day by day administration.

The Control Committee was elevated to the status of a Council committee (previously a Senate committee) and was reconstituted to include a representative from the Faculty of Education, two Senate representatives on Council as well as a representative from the Department of Co-operation and Development. Representation of the Faculty of Agriculture was decreased to three.

ARDRI is represented on the Faculty of Agriculture but the Institute does not fall under the jurisdiction of any University Faculty.

#### 2.1 ARDRI Board of Control 1980

- The Rector, University of Fort Hare, Professor Dr. J.M. de Wet,  
MSc (SA) BSc (Eng) (Witwatersrand), DIC PhD (London),  
The Vice-Rector, University of Fort Hare, Professor Dr. A. Coetzee,  
Cand Theol (Stellenbosch) MA (SA) D Litt (UOFS)  
The Dean, Faculty of Agriculture, University of Fort Hare,  
Mr. S.J. de Swardt, MSc Agric (Natal) and later  
Mr. J.H.G. de Villiers, MSc Agric (Natal)  
The Director, ARDRI, Professor Dr. P.J. Burger, MSc Agric (Pretoria)  
D Inst Agrar (Pretoria)

The Heads of the following Departments of the University:

Agricultural Extension & Rural Development: Professor Dr. T.J  
Bembridge, MSc Agric (Reading) D Inst Agrar (Pretoria)

Agronomy: Professor Dr. E.H. Graven, MSc Agric (Stellenbosch)  
PhD (Wisconsin)

Soil Science: Professor Dr. M.C. Laker, MSc Agric (Stellenbosch)  
DSc Agric (UOFS)

Business Economics and Co-operative Work: Professor Dr. J.J.A.  
Steenekamp, M.Com (UOFS), D.Com (SA), representing the  
Faculty of Economic Sciences.

Biochemistry: Professor Dr. J.M. Brand, MSc Agric, PhD (Natal)  
STD representing the Faculty of Science.

Social Work: Professor M.A. Hough, B (SW) (Stellenbosch) BA (Hons)  
(SA) MS (SW) (Boston), representing the Faculty of Arts.

The Senate representatives on Council: Professor Dr. E.J. de Jager,  
MA, D.Phil (Potchefstroom), and Professor Dr. J.A. Lamprecht  
BA (Witwatersrand), BD (London), DD (SA)

Department of Co-operation & Development: Dr. H. Hamburger, PhD (Göttingen)

ARDRI is advised by an Advisory Council consisting of representatives  
of a wide range of public and private bodies and organisations.

Administration of the Institute is the responsibility of the Director  
who holds the rank of Professor and is a full member of the Board of  
the Faculty of Agriculture and the Senate of the University.

## 2.2 Staff

Research, administrative, part-time and temporary staff may be  
appointed as required. The Institute is expected to finance  
such appointments out of its own resources.

The potential staffing structure and the staff position as at  
31 December 1980 appear in Annexure "A" and section 6 below.

## 2.3 Finance

The Institute's funds are managed as a University Council Fund  
and are obtained in the form of donations from a variety of  
sources as well as revenue accruing from work undertaken for  
outside clients. The University provides accommodation and  
certain other services to the Institute and is responsible for  
the salaries of the Director, his Secretary and one Senior  
Researcher.

Mr. Graham, ICS Foods Limited

Mr. D.H. Laing, ICS Foods Limited

Mr. C. Frans B. REPORT ON THE INSTITUTE FOR 1980

Mr. A. Goddard, John Thompson Africa

Mr. MacKenna, JCI

## 1. VISITORS

During the period under review, ARDRI enjoyed the privilege of visits from a number of persons. Records show that, inter alia, the following were involved:

Dr. H. Hamburger, Committee for Development Research (CDR) of the Department of Co-operation & Development, Pretoria

Mr. W.J. Kleyn, Sons of the Soil Trust

Messrs Clark & du Randt, General Mining & Finance Corporation

Mr. W. Smart, Department Agriculture & Fisheries

Major J. du Bois, Eastern Province Command

Mr. T. Fényes, University of the North

Mrs Vosloo, Information Services, CSIR

Mr. G. Godden, Ciskei Department of Agriculture & Forestry

Mr. B. Rodgers, Valvoline Oil

Mr. F. Pretorius, Trust Bank East London

Mr. P.J. Jansen, Asgrow

Mr. J. Case, Bayer Agrochem

Mr. Picken, Caltex

Mr. G. May, Coopers East Cape

Mr. Keightley, Caltex

Mr. D. le Roux, CNDC

Mr. van Wyk, Daily Dispatch

Mr. R. Kreuzsch, Epol

Mr. G.L. Smith, Everite

Mr. A.J. Wright, Everite

Mr. M.R. Selley, Goodyear Tyre & Rubber

Mr. N.F. Life, Goodyear Tyre & Rubber

Mr. J. van der Westhuysen, General Tyre & Rubber

Mr. Godfrey, General Tyre & Rubber

Mr. A.L. Mapham, Ciskei Government

Mr. M. Sikutshwa, Gilbey Distillers

Mr. V. Rebe, Gilbey Distillers

Mr. Graham, ICS Foods Limited  
 Mr. D.H. Laing, ICS Foods Limited  
 Mr. C. Frauenstein, James Weir  
 Mr. S. Goddard, John Thompson Africa  
 Mr. MacKenzie, JCI  
 Mr. J.F. Drummand Hay, Kohler Industries  
 Mr. C.M. George, Kohler Industries  
 Mr. K. Humphrey, TDC  
 Mr. M. Edwards, Leyland  
 Mr. C. Rostance, Leyland  
 Mr. J.R. Burg, Langeberg  
 Mr. P.I. Masilila, Kangwane  
 Mr. M. Jordan, Kangwane  
 Mr. B. Lee, JP Coats  
 Mrs. Lacey, Rhodes University  
 Professor S. Bekker, Rhodes University  
 Mr. C. Murray, Legal & General, Volkskas  
 Mr. J.C. Renken, Lebowa  
 Mr. B. Chitty, Murray & Stewart  
 Mr. D.H. Laing, Massey Ferguson  
 Mr. C. Frauenstein, Massey Ferguson  
 Mr. Galloway, Mobil Oil  
 Mr. F. du Toit, Nedbank  
 Mr. Kuhm, Nedbank  
 Mr. H.J. Haasbroek, Nedbank  
 Mr. D. Walsh, Natal Building Society  
 Mr. R. Fann, Natal Building Society  
 Mr. N.G. Reed, Otis Elevator Company  
 Mr. S.N. Botha, Otis Elevator Company  
 Mr. J. Foster, Rembrandt  
 Mr. D. Craig, Shell Company  
 Mr. P. Brink, Stewart & Lloyds  
 Mr. Siebritz, Standard Bank  
 Mr. F. Marais, SABC  
 Mr. D. Joubert, SABC  
 Mr. A. Nongauza, SABC  
 Mr. R. Magenuka, SABC  
 Mr. C. Makuzane, SABC



University of East London  
 Together in Excellence

Mr. M.S. Brunette, Triomf Fertilizer  
 Mr. I.M. Ferreira, Triomf Fertilizer  
 Mr. M.C.A. Chandler, The Mercury  
 Mr. M. Neave, Trek Petroleum  
 Mr. P. Oelofse, Trek Petroleum  
 Mr. M.R. Uhlig, Tyefu Irrigation Scheme  
 Mr. P. Brink, Tedelex Electronics  
 Mr. A. Stratford, Urban Foundation  
 Mr. A.J. Mountain, Urban Foundation  
 Mr. O.R. Young, Wispeco  
 Miss G. Young, Wispeco  
 Mr. J.B. Mnisi, Gazankulu  
 Mr. G. Machaba, Gazankulu  
 Mr. H. Cunukelo, Qwa Qwa  
 Mr. J. Mapheelle, Qwa Qwa  
 Mr. J.A.L. Cronje, Agricura  
 Mr. E.L. le Roux, KwaZulu  
 Dr. H.E. du Plessis, Department of Co-operation & Development  
 Mr. A.J. Conradie, Trust Bank, Port Elizabeth  
 Mrs. Shirley Matthews, Alice  
 Brigadier Potgieter, E.P. Command  
 Mr. O'Dowd, Anglo American  
 Mr. Craig, Anglo American  
 Mr. M. Mentis, Natal University  
 Mr. L. Louw, Free Market Foundation  
 Mr. Sher, Department of Agriculture & Forestry, Ciskei  
 Mr. Chandler, Mercury and Daily Dispatch  
 Mr. E. Watts, NRDC, Lusaka  
 Mr. Allwood, World Vision  
 Mr. R. Watts, Zambia  
 Mr. Dziba, Project Manager, Amatola Basin Project  
 Mr. Mkandla, Transkei Department of Agriculture & Forestry  
 Mr. Penberthy, Ciskei Department of Agriculture & Forestry  
 Mr. Hayward, Ciskei Department of Agriculture & Forestry  
 Mr. Mjo, Ciskei Department of Agriculture & Forestry  
 Dr. H. van der Merwe, "Afrika 2000"  
 Professor. H. Schoonbee, RAU  
 Mr. J. Graaff, Bophuthatswana University  
 Approximately 200 inhabitants of the Amatola Basin



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## 2. CONSTITUTION

During the period under review work continued on the updating of the Institute's Constitution. Finalization of this matter was delayed by various related issues which required prior clarification.

The amended Constitution was finally approved by Council (22 April 1980) and put into effect as from 1 July 1980. However, certain problems arose almost immediately in the practical application of the new Constitution. These are receiving attention with a view to further amendments.

## 3. ORGANISATIONAL PARTICIPATION

The Director maintained involvement with and, where necessary, attended meetings of the following bodies:

Control Committee of ARDRI, its Executive and various ad hoc and standing committees appointed by it.

Steering committees of various projects

SAIL (SA Society for Agricultural Extension, Eastern Cape Branch)

Sons of the Soil Trust

Norms Committee, Eastern Cape Region, Department of Agriculture and Fisheries

Fresh Water Fish Sub-Committee of the Committee for Development Research (CDR)

Ciskei National Agricultural Show

Board of the Faculty of Agriculture, UFH

Senate, UFH

Research & Capital Equipment Committee, UFH

Due to increasing commitments in ARDRI itself, the Director has been obliged to step down from some activities which could not be closely identified with ARDRI and its objectives.

## 4. ARDRI PROMOTION

Although no planned, co-ordinated drive was launched to promote ARDRI's image during 1980, there is little doubt that the effects of various factors have served to make the Institute known to others in the development field. The result has been that ARDRI has been increasingly called upon to render services in development situations.

Perhaps of no great significance, yet important, is the fact that ARDRI is seen as a non-profit, unbiased, university-based organisation which is able to call on some of the best brains available in the country to assist in its projects.

The high standard of work these people are known to have delivered, both on their own and under ARDRI's aegis, and the good job they are doing in promoting, by means as simple as good public relations in the normal course of their work, have undoubtedly done much to bring ARDRI's existence and potential to the notice of interested people.

The Director of Development and Public Relations of the UFH has played a big role in "sensitising" would-be donors in favour of ARDRI as part of his normal annual publicity and fund-raising drives. It is clear that his support has lent credibility to ARDRI as a University "project" and, although subtle, must surely be acting in ARDRI's favour.

ARDRI's fund-raising drives during the past two years led, inter alia, to serious discussions with representatives from the Chairman's Fund of the Anglo-American and De Beers Corporations during the course of the year. Three projects, totalling R483 000, are subsequently being sponsored by the Chairman's Fund.

The same applies to the support being received from General Mining Union Corporation which, for the past 18 months has been sponsoring a rural development project in the Amatola Basin. This project has received good publicity which, naturally, will promote ARDRI's reputation and, especially, enhance its credibility locally.

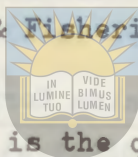
By conceding to a request from the Department of Co-operation and Development for representation on the Control Committee, ARDRI's image will have been improved also in Government circles. The allocation to ARDRI of the so called "Shiela/Mooifontein Evaluation Project" in Bophuthatswana by the Department of Co-operation and Development will have contributed in no small way towards the ARDRI image.

The same applies in Transkei where two projects are being negotiated (one partly completed) upon the request of the RSA Department of Foreign Affairs.

There are doubtless more examples. However, the point is made that satisfactory service is probably the best way of promoting an organisation.

Finally, there are three other "factors" which, in one way or another have helped to put the Institute on the map. One of these is the successful "Open day" held during February 1980 in conjunction with the annual meeting of the ARDRI Advisory Council. It was well attended, offered the opportunity for people to get to know one another and led to the receipt of quite a few donations. More of these functions are to be held.

Another promotion effort, viz. an exhibit at the 1980 Second Ciskei National Agricultural Show, has led to negotiations with the Ciskei Department of Agriculture & Fisheries on a proposed freshwater fish Production project.



The last promotional input is the quarterly ARDRI newsletter of which almost four thousand copies of Volume 1, Nos 1 to 4 were distributed free in Southern Africa and abroad during 1980. Feedback indicates that "ARDRINEWS" is well received and every effort is being made to improve its quality and usefulness.

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Towards the end of the period under review, the idea was mooted of arranging a meeting of the "smaller" institutes and involved bodies to discuss the concept "development" and to see how such organisations could supplement each other. This idea found immediate favour and planning of the event was commenced with a view to holding the meeting during February, 1981.

At this stage it is clear that there is a need in ARDRI for a promotional brochure of high quality. Attention will have to be given to this aspect.

## 5. FINANCIAL SITUATION

### 5.1 Financial Statement

The financial position of the Institute for the period 1 January 1980 to 31 December 1980 is summarised in Annexure "B".

An important development in this regard is the fact that ARDRI has invested some of its available capital in an attempt to speed

up growth of its capital fund and generate funds for the employment of part-time workers.

Thanks to the sympathetic support of the University Council, the Rector and staff members responsible for financial administration, the financial position of ARDRI has improved considerably during the period under review.

## 5.2 Fund-raising

Although no formal fund-raising campaign was organised for 1980, some donations were received whilst funds were obtained for special research projects, e.g. from the Anglo-American & De Beers Corporation's Chairman's Fund. In the latter case the total amount is R483 000 over an average of 5 years.

Three projects are involved.

General Mining Union Corporation has continued sponsoring the Amatola Basin Project at a figure of R20 000 per annum while a group known as Afrika 2000 are sponsoring an ARDRI development project in Transkei.

Funding has been obtained for certain projects and is being sought for others, e.g. the viability of commercial fresh-water fish production in developing states.

Donations were received from the following companies and their interest in ARDRI and its work is gratefully acknowledged:

Unisec Limited  
 General Motors Corporation  
 Phalaborwa Mining Company Limited  
 Goodyear Tyre & Rubber Company Limited  
 ICI (SA) Limited  
 Suncrush Limited  
 JCI Limited

## 6. STAFF AND ACCOMMODATION

### 6.1 Posts and appointments

On 31/12/80 the position in regard to posts and staff in ARDRI was as follows:

Post	Incumbent	Funded by
Director	Prof. P.J. Burger	Voted monies (UFH)
Snr Research Officer (1)	Mr P. Adams	Anglo American (Forest Farming)
Snr Research Officer (2)	Vacant	-
Research Officer (1)	Mr P. Whitfield	Anglo American (Centoil)
Research Officer (2)	Vacant	-
Research Officer (3)	Vacant	-
Research Officer (4)	Vacant	-
Technician (1)	Mrs P. Goduka	General Mining (Amatola Basin)
Technician (2)	Mr M. Willis	General Mining (Amatola Basin)
Technician (3)	Temporarily filled by	-
Technician (4)	National Servicemen	-
Chief Clerk	Vacant	-
Snr Clerk	Mrs H. Venter	ARDRI
Secretary-typist	Mrs P.E. Whitecross	UFH
Part-time Clerk	Mrs P. Matthews	ARDRI
Part-time Clerk	Mrs L. Beaumont	ARDRI

For various reasons it has been difficult to secure staff in key positions notably that of Senior Research Officer, Research Officer and in the more or less permanent clerical positions. In spite of advertising, even outside the RSA, very little response has been obtained, e.g. from qualified agriculturists.

Shortage of money, the short-term nature of appointments due to the funds position in ARDRI, the political situation in the Ciskei feature among factors responsible for difficulties experienced in attracting suitable staff.

#### 6.2 Office accommodation

Since the previous report, ARDRI has been re-housed in comfortable offices in the west wing of the Agriculture Building.

### 7. RESEARCH, SPECIALIST ADVISORY AND SUPPORTING PROJECTS

#### 7.1 Projects undertaken

The main tasks of ARDRI are to undertake itself, or promote research into development problems, to render specialist advice in connection with practical development schemes and to undertake a variety of supporting projects which will provide a facilitating service to the Institute's research and advisory function.

The research situation in ARDRI at 31/12/80 is given in summarised form in Annexure "C"

According to this statement, ARDRI was handling a total of 43 projects in different stages of completion. A year before (end of 1979) the total was 22.

The following tabular presentation indicates the volume and nature of the growth in ARDRI's activities.

Year	Projects	Value (R)
1979	22	1,200,000
1980	43	2,500,000

A COMPARISON OF ARDRI'S RESEARCH ACTIVITY DURING THE YEARS 1979 AND 1980

Year end 1979

Year end 1980

Master research programsMakatini Master Project (No ARDRI  
79013)Component projects:

Makatini I - Completed

" II - Completed

" III - Under negotiation

" IV - Under negotiation

Buffalo Basin Master Project (No ARDRI  
79012)Component projects:

Buffalo Basin I - On-going

-

-

-

-

General Mining (Amatola Basin) Master  
Project (No ARDRI 79014)Component projects

-

-

-

-

-

-

-

-

-

Individual projects

Under negotiation: 6

On-going : 5

Completed : 3

A. Master research programs1. Makatini Master Project (No ARDRI  
79013)Component projects:

Makatini I - Completed

" II - Completed

" III - Cancelled

" IV - On-going

2. Buffalo Basin Master Project (No ARDRI  
79012)Component projects:

Buffalo Basin I - Completed

" II - Under negotiation

" III - On-going

" IV - Under negotiation

" V - Under negotiation

3. General Mining (Amatola Basin) Master  
Project (No ARDRI 79014)Component projects

Amatola Basin I - Completed

" II - Completed

" III - On-going

" IV - On-going

" V - Under negotiation

" VI - Under negotiation

" VII - Under negotiation

" VIII - Under negotiation

" IX - On-going

B. Individual projects

Under negotiation: 4

On-going : 13

Completed : 5



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A condensed description of on-going projects during 1980 is provided in Annexure "D "

## 7.2 Reports on completed research projects

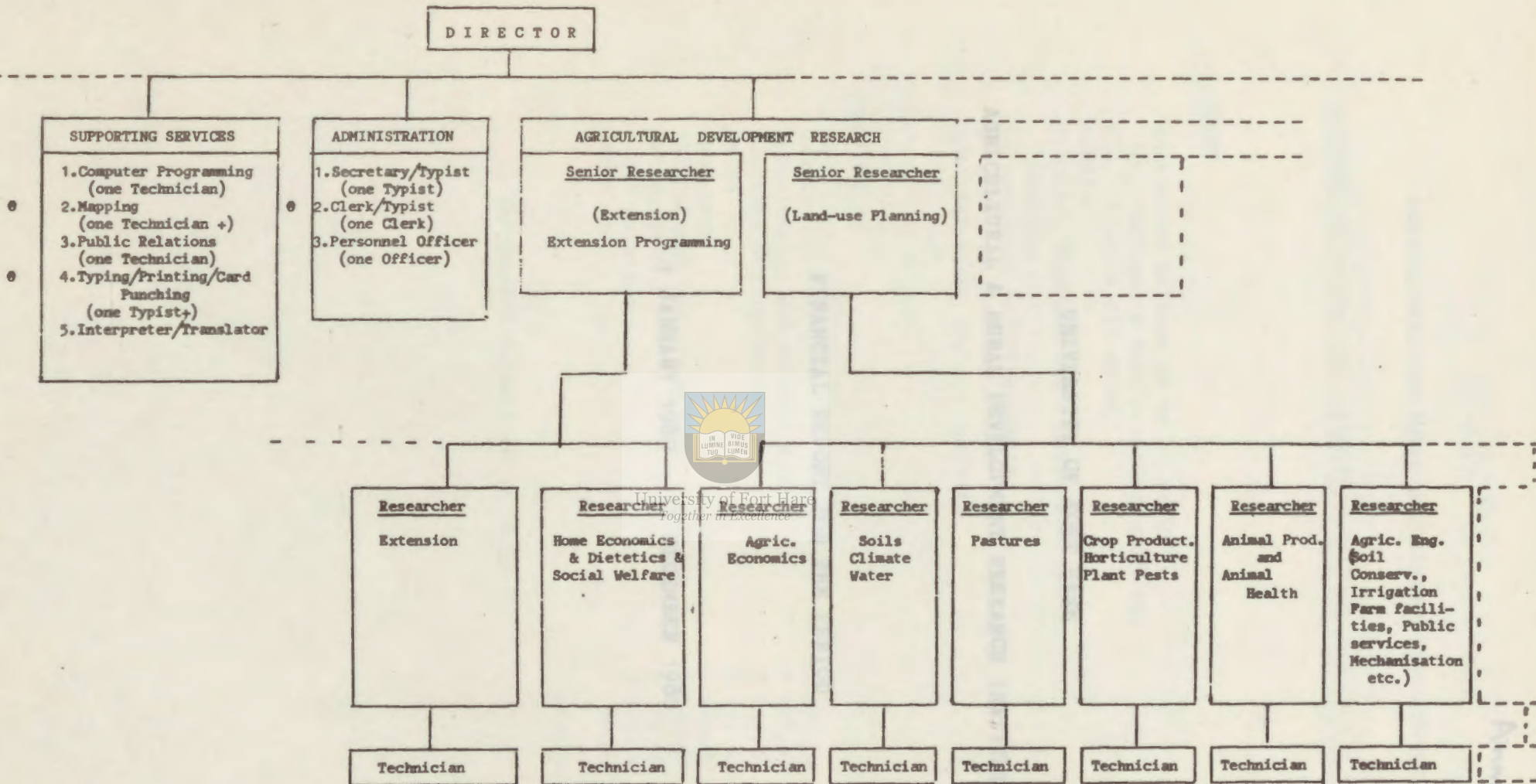
Following the publication of four research reports prior to the end of 1979, a further one report (No 1/80: The vegetation of the Buffalo Basin) was compiled during the year.

Two more reports are currently being prepared for publication, viz. "The soils of Amatola Basin" and "The natural pastures of Amatola Basin".

In the category of "service" or "supporting" projects, two undertakings were completed, viz. the "Newsletter" and the "Compres" projects. The former refers to "ARDRINEWS", the Institute's mouthpiece, of which Volume 1, Nos 1 to 4 were published (quarterly) during 1980. The "Compres" project (a computer program for the registration of university projects) was put into effect to aid record-keeping of all projects undertaken at Fort Hare University.

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**A D R I : P R O P O S E D E S T A B L I S H M E N T**



As ADRI's level of production increases staff requirements in these categories will expand rapidly, e.g. a large number of maps will be published per research report; one Technician will not be able to cope as output increases.

UNIVERSITY OF FORT HARE

AGRICULTURAL AND RURAL DEVELOPMENT RESEARCH INSTITUTE

STATEMENT OF INCOME AND EXPENDITURE FOR THE PERIOD 1.1.80 TO 31.12.80

INCOME

Unexpended balance as at 31.12.79	R 57 384,01
Group chairman's fund - various projects	67 454,00
G.J. Havell - Oil sales	1 794,59
Donations	28 350,00
Donation from UNIVERSITY OF FORT HARE	
Open Day	2 500,00
Co-operation and Development	445,52
AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)	122,19
Administration fee and sundries	3 186,12

EXPENDITURE

Salary	52 371,54	
Consultation and service fees	13 426,31	
Material and equipment	8 613,61	
Wages	2 267,43	
Transport	5 664,92	
Subsistence and travel	2 225,55	
Entertainment	1 125,60	
Administration	1 911,36	
Sundries	86,25	77 694,57

Unexpended balance as at 31.12.80 R 57 463,57

FINANCIAL REPORT FOR THE PERIOD



University of Fort Hare  
Together in Excellence

1 JANUARY 1980 - 31 DECEMBER 1980

UNIVERSITY OF FORT HARE

AGRICULTURAL AND RURAL DEVELOPMENT RESEARCH INSTITUTE

STATEMENT OF INCOME AND EXPENDITURE FOR THE PERIOD 1.1.80 TO 31.12.80

	R	R
<u>INCOME</u>		
Unexpended balance as at 31.12.79		57 384,01
Group chairman's fund - various projects		67 454,00
G.J. Wevell - Oil sales		1 798,50
Donations		28 350,00
Donation from Council - Newsletter and Open Day		2 500,00
Co-operation and Development		445,58
Interest on investment		322,19
Administration fee and sundries		3 106,12
 <u>EXPENDITURE</u>		
Salary	32 371,54	
Consultation and service fees	13 426,31	
Material and equipment	8 013,61	
Wages	2 267,43	
Transport	5 666,98	
Subsistence and travelling	9 025,55	
Entertainment	1 125,60	
Administration	1 911,56	
Sundries	86,25	73 894,83
		<hr/>
Unexpended balance as at 31.12.80		R 87 465,57
		<hr/> <hr/>



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UNIVERSITY OF FORT HARE

AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)

CAPITAL FUND

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

	R	R
<b><u>INCOME</u></b>		
Loan from Council	2 687,00	
Makatini 2 Project	3 215,47	
Ncora Project	50,00	
White Kei	410,00	
Johannesburg Consolidated Investment Co	20 000,00	
Interest on fixed deposit (Investment account, R40 000)	322,19	
<b><u>EXPENDITURE</u></b>		
Makatini 1 Project	480,00	
Fish Project	27,26	507,26
Unexpended balance as at 31/12/80		<u>R26 177,40</u>



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 AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)

ARDRI DONATIONS

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

	R	R
<b><u>INCOME</u></b>		
Unexpended balance as at 31/12/79		4 905,00
Phalaborwa Mining		2 000,00
Goodyear Tyre and Rubber Co		3 000,00
I C I		2 000,00
Suncrush		50,00
<b><u>EXPENDITURE</u></b>		
Salary	2 369,47	
Entertainment	636,49	3 005,96
Unexpended balance as at 31/12/80		R8 949,04



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AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)

RUNNING COSTS

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

	R	R
<b><u>INCOME</u></b>		
20% Administration fee General Mining		419,12
<b><u>EXPENDITURE</u></b>		
Consultation and service fee	513,71	
Transport	124,71	
Material and equipment	236,53	
Subsistence and travelling	350,52	
Entertainment	71,07	
Administration	557,56	
Other	10,00	1 864,10
Unfavourable balance as at 31/12/80		<u>R1 444,98</u>



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 (AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI))  
 ARDRI CEN TOIL PROJECT

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

	R	R
<b><u>INCOME</u></b>		
Group Chairmans Fund	27 286,00	
G J Wevell - oil sales	1 798,50	
<b><u>EXPENDITURE</u></b>		
Salaries	4 230,59	
Consultation and service fees	701,35	
Wages	571,70	
Material and equipment	1 995,99	
Transport	577,52	
Subsistence and travelling	932,03	
Administration	12,20	
Entertainment	31,63	
	9 053,01	
Unexpended balance as at 31/12/80		R20 031,49



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 ARDRI ECOTOPE PROJECT

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

R R

INCOME

Group Chairmans Fund

24 541,00

EXPENDITURE

Consultation and service fees

122,00

Wages

516,95

Material and equipment

1 247,45

Transport

183,14

Subsistence and travelling

63,75

Administration

7,44

2 140,73

Unexpended balance as at 31/12/80

R22 400,27



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AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)

ADRI FUND RAISING

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

	R	R
<b><u>INCOME</u></b>		
Unexpended balance as as 31/12/79		160,75
Donation from Council - Open-day		500,00
<b><u>EXPENDITURE</u></b>		
Transport	236,00	
Subsistence and travelling	41,97	
Administration	35,72	
Entertainment	4,99	318,68
		<hr/>
Unexpended balance as at 31/12/80		R342,07
		<hr/> <hr/>



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AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)

ARDRI NEWSLETTER PROJECT

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

	R	R
<b><u>INCOME</u></b>		
General Motors		1 300,00
Donation from Council		2 000,00

<b><u>EXPENDITURE</u></b>		
Salary	150,00	
Consultation and service fee	310,00	
Material and equipment	1 116,18	
Subsistence and travelling	30,00	
Administration	739,36	
Entertainment	10,00	2 355,54

Unexpended balance as at 31/12/80 R 944,46



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 ARDRI FOREST FARMING PROJECT

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

R                      R

INCOME

Group Chairmans Fund 15 627,00

EXPENDITURE

Salary	9 195,58	
Material and equipment	456,03	
Transport	1 179,57	
Subsistence and travelling	1 060,65	
Administration	16,25	11 908,08

Unexpended balance as at 31/12/80 R3 718,92

Unfavourable balance as at 31/12/80 24 059,92



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**UNIVERSITY OF FORT HARE**  
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**ARDRI FISH PROJECT**

**INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80**

	R	R
<b><u>EXPENDITURE</u></b>		<b><u>INCOME</u></b>
Subsistence and travelling	27,26	27,26
Unfavourable balance transferred to Capital Fund		27,26
		<u>Nil</u>



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**AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)**  
**ARDRI GENERAL MINING PROJECT**

**INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 -31/12/80**

	R	R
<b><u>INCOME</u></b>		
Unexpended balance as at 31/12/79		20 000,00
<b><u>EXPENDITURE</u></b>		
Salary	6 344,04	
Consultation and service fees	8 975,75	
Wages	1 178,78	
Material and equipment	2 891,21	
Subsistence and travelling	2 631,99	
Transport	1 214,10	
Entertainment	394,57	
Administration	429,48	
	24 059,92	
Unfavourable balance as at 31/12/80		R4 059,92



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INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

	R	R
<b><u>EXPENDITURE</u></b>		
Transport	132,20	
Subsistence and travelling	103,11	
Entertainment	19,15	
Other	1,00	255,46
		<hr/>
Unfavourable balance as at 31/12/80		R255,46
		<hr/> <hr/>



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**ARDRI BUFFALO BASIN 3 PROJECT**

**INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80**

<u>EXPENDITURE</u>		
Consultation and service fee	40,00	
Material and equipment	70,22	
Subsistence and travelling	574,24	684,46
Unfavourable balance as at 31/12/80		R684,46
		R684,46



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AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)

ARDRI SHEILA/MOOIFONTEIN PROJECT

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

EXPENDITURE

Consultation and service fees	58,50	
Transport	1 804,67	
Subsistence and travelling	1 820,18	
Entertainment	32,95	
ADMINISTRATION	113,55	3 829,85
		<hr/>
Unfavourable balance as at 31/12/80		R3 829,85
		<hr/> <hr/>



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AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)

ARDRI KWA-ZULU EXTENSION SURVEY PROJECT

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

<u>INCOME</u>			
Unexpended balance as at 31/12/79		R	R
<u>EXPENDITURE</u>			
Transport	39,49		
Subsistence and travelling	10,50		49,99
			<hr/>
Unfavourable balance as at 31/12/80			R49,99
			<hr/> <hr/>



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AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)

ARDRI BUFFALO BASIN 1 PROJECT

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

	R	R
<u>INCOME</u>		
Unexpended balance as at 31/12/79		2 098,66
<u>EXPENDITURE</u>		
Consultation and service fees	2 510,25	
Subsistence and travelling	668,27	3 178,52
		<hr/>
Unfavourable balance as at 31/12/80		R1 079,86
		<hr/>



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 ARDRI MAKATINI 2 PROJECT

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80

R                      R

INCOME

Unexpended balance as at 31/12/79		2 805,89
Co-operation and Development		445,58

EXPENDITURE

Salary		36,00
Unexpended balance transferred to Capital Fund		3 215,47
		3 251,47

Nil



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 ARDRI MAKATINI 1 PROJECT

INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 -31/12/80

	R	R
<u>EXPENDITURE</u>		
Unfavourable balance as at 31/12/79	480,00	480,00
Balance transferred to Capital Fund		480,00
		<u>Nil</u>



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**ARDRI NCORA PROJECT**

**INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80**

	R	R
Unexpended balance as at 31/12/79		50,00
Unexpended balance transferred to Capital Fund	50,00	50,00
<u>Consultation and service fee</u>	225,00	Nil
<u>Transport</u>	175,58	
<u>Subsistence and travelling</u>	144,00	<u>319,58</u>
Unfavourable balance as at 31/12/80		<u>2544,58</u>



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**ARDRI WHITE KEI PROJECT**

**INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80**

	R	R
Unexpended balance as at 31/12/79		410,00
Unexpended balance transferred to Capital Fund	410,00	410,00
Consultation and service fees	225,00	Nil
Transport	175,58	
Assistance and travelling	144,00	
Unfavourable balance as at 31/12/80		254,58



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**XONXA PROJECT**

**INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80**

	R	R
<b><u>EXPENDITURE</u></b>		
Consultation and service fee	225,00	
Transport	175,58	
Subsistence and travelling	144,00	544,58
Unfavourable balance as at 31/12/80		R544,58



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**AGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)**  
**MAKATINI 4 PROJECT**

**INCOME AND EXPENDITURE STATEMENT FOR THE PERIOD 1/1/80 - 31/12/80**

	R	R
<b><u>EXPENDITURE</u></b>		
Subsistence and travelling	339,00	<u>339,00</u>
Unfavourable balance as at 31/12/80		<u>R339,00</u>




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- 1) Co-op Dept/Inst/Person
- 2) Client/Benefiting party
- 3) Sponsor

UNIVERSITY OF FORT HARE  
ARDRI RESEARCH STATEMENT AS AT 31 DECEMBER, 1980

Under negotiation	For approval Control Committee	On-going	Completed	Publication No
1. <u>Fish Farming</u> Dept. Zoology, Ag. Econ; Ag. Engin (UFH) 1) Ciskei Govt. 2) ? 3)	1. <u>Sheila/Mooifontein</u> Ag. Ext; Ag. Econ, Agronomy, Sec. Work (UFH) 1) Agricor, Bophuthatawana 2) Dept. Co-op & Dev. 3)	1. <u>Databank</u> 79003 2. <u>Buffalo Basin Master</u> 79012 3. <u>Tyefu Consultation</u> 79011	1. <u>Makatini I</u> 79005 2. <u>Makatini II</u> 79006 3. <u>Mount Pleasant</u> 79007	1/78 1/79
2. <u>Agric. Statistics KwaZulu</u> Ag. Econ. (UFH) 1) Dept. Agric KwaZulu 2) CDR 3)	2. <u>Beef Production KwaZulu</u> Ag. Ext; Ag. Econ. (UFH) 1) Dept. Agric. KwaZulu 2) CDR 3)	4. <u>General Mining (Anatola Basin) Master</u> 79014 5. <u>Makatini Master</u> 79013 6. <u>Ecotope Project</u> 7. <u>Centoil</u>	4. <u>Ncora Evaluation</u> 79008 5. <u>White Kei</u> 79009 6. <u>Compres</u> 79001 7. <u>Newsletter</u> 79002	3/79 2/79
3. <u>Ciskei Income/Expend Survey</u>	3. <u>Extension Service KwaZulu</u> Ag. Ext. (UFH) 1) Dept. Agric. KwaZulu 2) CDR 3)	8. <u>Hydraulic Rams</u> 9. <u>Low Cost Animal Housing</u> 10. <u>Low Cost mechanisation equipment</u>	8. <u>Buffalo Basin I: Vegetation Survey</u> 79004 9. <u>Anatola Basin I: Soil Survey</u> 80001 10. <u>Anatola Basin II: Pasture Survey</u>	1/80
4. <u>Anatola Basin V: Present landuse: Horticultural crops</u> UFH 1) Ciskei Govt. 2) General Mining 3)	4. <u>Anatola Basin IV: Present Landuse: Fieldcrops</u> Agronomy (UFH) Extension Dept. Agric & Forestry 1) Ciskei Govt. 2) General Mining 3)	11. <u>Buffalo Basin III: Pasture Evaluation</u> 12. <u>Anatola Basin III: Present landuse: Animal production</u> 13. <u>Makatini IV</u> 14. <u>Forest Farming</u>		
5. <u>Anatola Basin VI: Hydrology</u> Ag. Eng. (UFH) Ciskei Dept. Agric. 1) Ciskei Govt. 2) General Mining 3)	5. <u>Xonxa Evaluation</u> Transkei Dept. Agric. 1) Transkei 2) RSA Dept. Foreign Affairs 3)			
6. <u>Anatola Basin VII: Socio-Econ. Survey</u> Sociology, Soc. Work, Ag. Ext, Ag. Econ (UFH) 1) Ciskei Govt. 2) General Mining 3)	6. <u>"Africa 2000"</u> Benso, ISEN 1) Transkei 2) "Africa 2000" 3)			
7. <u>Anatola Basin VIII: Forestry and Non-Agric landuse</u> Dept. Forestry, ARDRI 1) Ciskei Govt. 2) General Mining 3)	7. <u>Anatola Basin IX: Geology and Climate</u> Extension, Agronomy 1) Ciskei Dept. Agric. 2) General Mining 3)			
8. <u>Buffalo Basin II: Soil Survey</u> Univ. OPS, Soil Science (UFH) 1) Ciskei Govt. 2) Ciskei Dept. Agric 3)				
9. <u>Best Farmer norms</u> Agric. Ext, Agronomy, An. Science (UFH) 1) ? 2) ? 3)				
10. <u>Buffalo Basin IV: Present landuse</u> Agronomy, Animal Sc&Ext 1) Ciskei Dept. Agric 2)				

Under negotiation	For approval Control Committee	On-going	Completed	Publication No	UNIVERSITY OF FORT HARE
<p>1) Co-op Dept./Inst./Person</p> <p>2) Client/Benefiting party</p> <p>3) Sponsor</p> <p>Under negotiation</p> <ul style="list-style-type: none"> <li>• Buffalo Basin V: Socio-econ Survey</li> <li>Ext. Social work, Socio-1</li> <li>IBEX 2</li> <li>Ciskei Dept. Agric. 3</li> <li>Ciskei Govt.</li> <li>• Transkei Development Strategy</li> <li>Transkei Dept. Agric. 1</li> <li>Transkei 2</li> <li>RSA Dept. Foreign Affairs 3</li> </ul>		<div style="text-align: center;">  <p>University of Fort Hare Together in Excellence</p> </div>		<p>RURAL DEVELOPMENT RESOURCE INSTITUTION (RDRI)</p> <p>PROJECTS, 1980 &amp; A NOTES THEREON</p>	

UNIVERSITY OF FORT HAREAGRICULTURAL & RURAL DEVELOPMENT RESEARCH INSTITUTE (ARDRI)ON-GOING PROJECTS, 1980 : A BRIEF DESCRIPTION1. MAKATINI MASTER (No ARDRI 79013)Commissioned by: See component projectsSponsored by: See component projectsBudget: Total of component projects to date (R7 653)Nature of project: All studies relating to development in the Makatini Flats. They form components of the master programJustification: Not applicable - see components2. MAKATINI IVCommissioned by: ARDRISponsored by: CDRBudget: R2 000Nature of project: Economic evaluation of irrigation planning in less developed areas with special reference to the Makatini flatsJustification: No reliable norms exist and no concrete planning has, as yet, been done on the "flats"3. BUFFALO BASIN MASTER (NO ARDRI 79012)Commissioned by: Ciskei Dept. of Agriculture & ForestrySponsored by: Ciskei Dept. of Agriculture & ForestryBudget: R30 000 plusNature of project: A survey of natural, economic, human and technological resources in the catchment of the Buffalo River in the Ciskei. The different facets of the survey form "component projects" under the "master" programJustification: Not applicable - see components4. BUFFALO BASIN IIICommissioned by: (see Master project)Sponsored by: UFH and Dept. Agriculture & Forestry, CiskeiBudget: R3 500Nature of project: Determination of the condition of the veld in the different veld types, estimation of the maximum, minimum and mean grazing and browsing capacities of the different veld types and to provide botanical data for regional planning of the livestock industry

in the Buffalo Basin in the Ciskei.

Justification: Overstocking is regarded as one of the most important problems limiting veld rehabilitation and the development of an economically viable livestock industry in the Ciskei.

5. GENERAL MINING (AMATOLA BASIN) MASTER (NO ARDRI 79014)

Commissioned by: General Mining & Finance Corporation Ltd.

Sponsored by: General Mining & Finance Corporation Ltd.

Budget: R100 000 over 5 years

Nature of project: A study in human development, comprising a range of resource surveys, including the human factor, and the designing and implementation of educational (extension) programs to obtain the adoption of improved land-use systems

Justification: Not applicable - see components

6. AMATOLA BASIN III

Commissioned by: ARDRI

Sponsored by: See Master project

Budget: R2 400

Nature of project: Determination of the present levels of animal production in the Amatola Basin with a view to the formulation of improved systems of management.

Justification: The study forms an integral part of the overall Amatola Basin Development Project



7. AMATOLA BASIN IV

Commissioned by: ARDRI

Sponsored by: See Master project

Budget: R2 000

Nature of project: Investigation of present field crop production in the Amatola Basin with a view to planning an agricultural reform program.

Justification: The study forms an integral part of the overall Amatola Basin Development Project

8. AMATOLA BASIN IX

Commissioned by: ARDRI

Sponsored by: See Master project

Budget: R500

Nature of project: The collection of climatic data for the Amatola Basin and description of the climate and geology of the area.

Justification: Forms and integral part of the proposed agricultural reform program for the Amatola Basin

9. ECOTOPE PROJECT

Commissioned by: Ciskei Government, ARDRI

Sponsored by: Anglo-American Chairman's Fund, Ciskei Government

Budget: R200 000 over about 5 years

Nature of project: The project consists of the identification of Ciskeian ecotopes (i.e. homogeneous areas in regard to climate, slope and soil) followed by the gathering of production data which can be used in similar areas elsewhere.

Justification: The extrapolation of results obtained in ecotope experiments will greatly accelerate agricultural development.

10. CENTOIL PROJECT

Commissioned by: ARDRI

Sponsored by: Anglo American Chairman's Fund

Budget: R128 000 over about 5 years

Nature of project: Assessment of the viability of an essential oils industry in the Ciskei by assessing the magnitude and depth of the market for certain oils and demonstrating the income earning potential of wild plants to the Ciskeian tribesfolk.

Justification: The viability etc of an industry is unknown yet the potential appears to be high

11. FOREST FARMING PROJECT

Commissioned by: ARDRI

Sponsored by: Anglo-American Chairman's Fund

Budget: R155 000 over about 5 years

Nature of project: To study the potentials of perennial food-bearing tree crops by selecting and procuring suitable varieties, testing their performance under different conditions, with different spacings etc., and developing suitable management systems, handling, storage and processing techniques.

The study includes a breeding and selection program, tests of acceptability and palatability and cooking methods. It will culminate in studies of the effects on and reactions of communities, and development of demonstration and extension programs.

Justification: 86% of RSA is non-arable. Much of this area could support food-bearing trees which could support a higher population than can rough grazing.

12. DATABANK (NO ARDRI 79003)

Name: Databank

Commissioned by: ARDRI

Sponsored by: ARDRI, alternatively UFH

Budget: R10 000 per annum for the entire University

Nature of project: The designing and implementation of a system whereby research findings and other valuable data may be systematically stored and easily retrieved when required. This may involve the development of a suitable computer program for the UFH computer and the establishment of good working relations with other information services, e.g. the CSIR Centre for Scientific and Technical Information, from which Databank material may be purchased on an on-going basis.

Justification: Having ready access to classified information on a particular subject is indispensable to anyone engaged in educational and especially research activities. This can only be done effectively by means of a computerised system which is linked up with other similar systems.



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13. AFRIKA 2000 - DUMEZWENI (TRANSKEI) PROJECT

Commissioned by: "Afrika 2000"

Sponsored by: "Afrika 2000"

Budget: R20 000 plus

Nature of project: The development of a group of people capable of above average competence in agricultural production, self-administration, self financing and self-development.

Justification: The need in Transkei for a break-through in extension. Also the need to give ARDRI publicity and build credibility in Transkei.

14. KWAZULU BEEF PROJECT

Commissioned by: KwaZulu Dept. of Agriculture and Forestry

Sponsored by: KwaZulu Dept. of Agriculture & Forestry, CDR

Budget: R20 000

Nature of project: To describe the physical nature of the beef industry in KwaZulu and its support system; to define and place

quantitative values on production constraints and describe a program for lessening these constraints.

Justification: Low off-take and habitat destruction are synonymous with livestock in less development countries

15. KWAZULU EXTENSION SERVICE PROJECT

Commissioned by: KwaZulu Dept. Agriculture & Forestry

Sponsored by: KwaZulu Dept. Agriculture & Forestry, CDR

Budget: R10 000

Nature of project: Investigation of the influence of various factors which underlie the low functional efficiency of the KwaZulu extension service

Justification: Study will contribute to increased effectiveness and efficiency in the KwaZulu extension service.

16. XONXA IRRIGATION PROJECT (TRANSKEI)

Commissioned by: Dept. of Foreign Affairs, RSA

Sponsored by: Dept. of Foreign Affairs RSA

Budget: R725 plus

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Nature of project: To evaluate certain aspects of a possible irrigation development project under the Xonxa dam in Transkei

Justification: The urgency of the request by the Dept. of Foreign Affairs RSA.

17. FISH-FARMING PROJECT

Commissioned by: ARDRI, Ciskei Dept. of Agric & Forestry

Sponsored by: ? (At the moment ARDRI)

Budget: ?

Nature of project: To study the economic status of fresh water fish production as a competitor for scarce resources. This will entail setting up a pilot production facility and to evaluate the economic performance of the venture over time.

Justification: The results will provide a realistic base for continuing research into the viability of such a venture and if successful provide much-needed information

18. SHIELA-MOOIFONTEIN PROJECT

Commissioned by: Dept. Co-operation & Development

Sponsored by: CDR

Budget: † R15 000

Nature of project: Evaluation of maize production projects in Bophuthatswana

Justification: Commission from the State Department of Co-operation & Development

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