(Official use only)



INVENTORY

9

ŝ

ON

FARMS

(FACULTY OF VETERINARY & ANIMAL SCIENCES)

1988





DIRECTORATE OF RESEARCH KERALA AGRICULTURAL UNIVERSITY VELLANIKKARA - 680 654, TRICHUR

ALCHIN TRACK

80074-6 12/11/11/18/6

PREFACE

The Kerala Agricultural University was established in the year 1972 with the Main Campus at Vellanikkara, in Trichur District. The University has seven Constituent Colleges located in four campuses and 20 outlying off campus Research Stations. The two stations viz. Livestock Research Station at Thiruvazhamkunnu and Cattle Breeding Station at Thumburmuzhi are attached to the College of Veterinary & Animal Sciences as its Instructional Farms. Even from the very beginning, the Government of Kerala had transferred all the Research Stations to the University.

Five agroclimatic Regions/Zones have been identified in the State. Under the new reorganised set up and with the commencement of NARP, there is one Regional Station in each region with sub-stations attached to it. The Regional Associate Directors of Research located in the main station viz., the RARS, co-ordinate and monitor the research activities of each region.

The necessity for a comprehensive document incorporating the details of infrastructural and other facilities of all the Stations is keenly felt. An attempt has therefore, been made in this publication to include the aforesaid details of the off campus Research Stations of KAU. It is hoped that this document will be of relevance not only to the agricultural research workers of KAU, but also to other visiting dignitaries concerned with agricultural research. The efforts taken by Station Heads and their colleagus in supplying the information and Prof.S Balakrishnan, Associate Director of Research(Plg) at Headquarters in compiling the same are gratefully acknowledged. The staff of the Directorate of Research have also helped to bring out this compilation.

Needless to say that this document has to be updated at periodic intervals to increase its utility.

2012 THINGS (M ARAVINDAKSHAN) KERALA AGRICULTURAL UNIVERSITY

Vellanikkara, Dt. 5-1-1989.

CONTENTS

N BARNA PLA	and a grant at a grant of the state of the	
Sl.No	Name of organisation	Page No
1	University Livestock Farm & Fodder Research Scheme, Mannuthy	VINS - 1
2	University Poultry Farm & Duck Farm, Mannuthy	VAS-10
3	University Pig Breeding Farm, Mannuthy	VAS-18
4	Livestock Research Station, Thiruvazhamkunnu	VAS-24
5	All India Co-ordinated Research Project on Goats for milk, Mannuthy	V25-32
б	Cattle Breeding Farm, Thumburmuzhi	VAS-43
La glang sata ing sanger ag	கைதல் பக்கில் குறைகள் தேரதாக்கிலதாகு அரச்சிலத்தில் தாக்கிலத்தைகள் திரும்பில் கிலைக்கி காலில், கிரியார் பிரியார -	- 4- 31 sant security gara

VAS-1

PARTICULARS OF RESEARCH STATIONS

Name of Station	00	University Livestock Farm & Fodder Research Scheme, Mannuthy
Zone in which located	00	Veterinary College Campus, Mannuthy
Address with pincode	80	University Livestock Farm, Veterinary College Campus, Mannuthy Pin - 680 651
Phone No.	00	25237
History of the Station:		

Originally the farm was started by the Cochin State some 50 years ago with a view to produce enough milk and draught bullocks for agricultural operations.

After the formation of the Kerala State, the administration of the farm was carried out by the State Animal Husbandry Department. The farm then assumed the status of Kerala State Government Dairy Farm, having the main objectives of production and distribution of stud bulls to various by village centre and viterinary dispensaries, besides milk production.

In the year 1955, the farm served as an adjunct of Veterinary College to provide teaching facilities to students for the conduct of practical classes, which was lates integrated in the year 1961. In 1972, this was brought under the control of Kerala Agricultural University and became University Livestock Farm.

I.FARM AND LAND PARTICULARS

1. Farm location:

a)Latitude

- b)Longitude
- c)Altitude(MSL) d)Name of road/high way with KM stone particulars
- e)Nearest railway station
- 10°32' North

:

- : 76° 10' East
- : 1.5 m above MSL
- : Trichur Balghat NH-47
 - 6km of East of Trichur Municipal town
- : Trichur Railway Station

VAS-2

2. Land particulars:		
a)Total area of farm	: 69 ha	
i)University lands	: 69 ha	
ii)Leased lands	: Nil	
iii)Others(Specify)	: Nil	
b)Classification of 1	land:	
i)Wetland (ha)	: Nil	
ii)Garden land(ha)	: 19 ha	
iii)Dryland (ha)	: 50 ha	
3. Meteorological data	- NA	
a)Rainfall	- 1974	
b)Temperature(Mean mo	onthly values)	: Furnished in
i) Maximum (°C)		Annexure - I
ii) Minimum (°C)		
4. Soil types: i)Classification and	brook Istoritio	ໄດວຫ
		Todini,
ii)Nutrient status of each class	• MCCTTCHU	
5. Cultivation pattern:		
i)Total area of farm	: 69 ha	
ii)Total area under cultivation	: 45 ha	
a)Experiments	: 1 ha	
b)Bulk cultivation	: 44 ha	
<pre>iii)Area occupied by buildings, roads, threshing floor etc</pre>	: 5 ha	n status status Alternationale set
iv)Area not utilised/ vacant(ha)	cultivated	ill top is not , but local grass rom that area is dder
v)Area not suitable for cultivation(ha	: 5 ha	an an i ana an
6. Cropping pattern:	а ж. у н. В	
i)Crop grown:		

: Ponds - 2 ii)No. cf wells open wells/tube Wells - 2 wells/others iii)Pumping source with : Electric motors - 1 5 HP HP - Electric motor/ Diesel engines - 2 5 HP Oil engine Slurry pump)Electric -10HP iv)Area irrigatable : 13 ha in Harm 10. Livestock particulars: Annexure - 1 11. Particulars of poultry: 12. Farm machineries: 1. Tractor with Trailors - 2 nos 2. Kubota Power tiller - one 3. Bullock cart - two - One . 4. Biogas plant 13. Equipments: NIL 14. Budget particulars: Total for the station including all schemes Year Actual expenditure Actual receipts Profit(+) or loss(-) 4.56310 The fodder grass 17.82875 1982-83 is supplied to goat farm and 5.25144 1983-84 20.38452 other departments of College 24.21906 6.20753 1984-85 6.88908 28.68956 1985-86 6.12819 26.94319 1986-87 5.95000 1987-88 24.59000 (anticipated) 15. Budget particulars - for bulk cultivation of crops(Rs.in lakhs) Actual expenditure Actual receipts Profit(+)or Year Loss(-) 0.22192 Fodder produced 7.21893 1982-83 is supplied to 9.77732 7.89189 1983-84 ULF, Goat farm and other departments 0.83386 1984-85 9.57640 of Vety. College. 0.38695 1985-86 12.81102 Expenditure includes wages of 1986-87 0.45972 12.78726 labourers sent to 0.45000 1987-88 8.55300 1. A. Vety. College also.

> (ic. about 35 labourers/day)

a)Perennial crops and : their area(ha)

Fodder Crops

1. Guinea - 15 ha

2.	Napier	Fac.3	1.5ha
3.	Hy. Napier		17.5 ha
4.	Pa s a		2 ha
5.	Congosignal	****	1 ha

b)Annual crops and area :

Fodder Crop

Maize - 8 ha

7. Out turn/yield of crops :

Crops Napier Guinea Maize Others Mrea cultivated 19ha 15ha 8ha 3ha Average yield/ha 12.5t/ha 125t/ha 50t/ha 35t/ha State average yield/ha - Not furnished Cost of cultivation/ha - Not furnished Rs.25000/ha 10000/ha 3750/ha 7000/ha Income/ha

8. Particulars of buildings

1)Buildings

 1. University Livestock Farm - 1972 and FRDS Office
 2. University Livestock Farm building - 1972 Shed No.1 to 8

3.Silopit - One

4. Shurry pumping room - 1

5.Waiting shed for labourers - 1

6.Bunker silo - 1

ii)Farm structures : Nil

iii)Fencing and boundary wall

Total farm perimeter - Not furnished Fencing available

9. Irrigation facilities:

i)Source of irrigation - : Pond and well river/well/others

ti)No. of wells - Open wells/ : Pond and well . tube wells/thers 16. List of Ongoing Schemes/Projects and data of implementation:

-

- i) University Scheme (Plan)
- ii) Non-Plan Scheme
- iii) ICAR Scheme ()ther than NARP)
 - iv) NARP
 - v) Others (Specify)
- 17. Particulars of exp eriments conducted -
 - 1.Varietal trials with hybrid and composite maize
 - 2. Manurial trial on Hybrid Napier
 - 3.Varietal trial on cowpea under different P&K levels
 - 4.Development of an economic forage cropping pattern for the middle lateritic belt of Kerala
 - 5.Effect of foliar application of three plant growth promoters on the growth and yield of standing crop of hybrid Napier (Rainfed)
 - 6.Effect of foliar application of the plant growth promotors on the growth and yield of planting crop of Napier (Irrigated)
- 18. Staff particulars
 - i)Scientific

Livestock Farm

	Professo	2	-	One		
a.1.,	Asst. Pr	ofessor	-	One		
	Farm Ass	istants	Burg	Four		
Title of Scheme	Assoc Dire.			Asst. Prof.	Jr.Asst. Prof.	Total
Fodder Research Development Sche	A.,	Nil	Nil	1	1	2
ii)Para technica	1					
Title of Scheme	visor S	Asst. A	Asst. As	arm Lab. Sst. Asst I Gr.1		otal
Fodder Res. & Department Scheme	2	1	1	1 1		6
University Live- stock Farm		2	2			4

19.i) Labour strength:

	Class IV	Permanen	t Casuals	Totals
Fodder Research a Development Scheme	Sa 2.	M F (28 41)6	M F 69 (98 68) 1 5 6	237
Livestock Farm	2	35+13		50
ii) Wages rates at	: present	for differ	cent categories:	3 g e
Permanent Male	- Rs.	525 - 10 -	625 - 15 - 775	
,, Fema	ale- Rs.	515 - 10 -	615 - 15 - 765	
Casual Male	- Rs.	31.75		а 1811 - 1914
,, female	~	30.25		, .*
Class IV	- Rs.	550 - 800		

20. Percentage of expenditure over total incurred for meeting the salaries etc. of i) Staff ii) Para technical and iii) Labourers

21. Salient research achievements in brief since inception of station. Give details separately for the periods: i) Upto 1956 - NA ii) 1956-1972 - NA

iii) 1972 - till date

Fodder Research & Development Schemes

Varietal trials with hybrid and composite maize under different N levels showed that varieties Him.123, Deccan, Histarch and Ganga-5 are superior to vox. Vijay, Ganga safed 2 and Karnal. N application at the rate of 120 kg/ha has significantly superior effect over applications (40 & 80 kg per hectare.

Varietal trial on fodder cowpea under different p & k levels showed that var C-1420 & C-2628 are superior to New Era & Local. Levels of p & k have no significant effect on yield. 22. Farm revenue improvement programme

i) Details of bulk/Commercial cultivation undertaken

Furnished under item no.7

ii) Area still available for undertaking bulk/commercial cultivation ..

NIL

23. Any other relevant particulars:

MIL

V7.5-8

ANNEXURE - I

Average weather conditions at Fodder Res. & Development Schemes, Mannuthy

والمتهام والمراجع المراجع المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والم	Bernation - 3-108 - 2-18. a 2007. →		و د د بد شکه به .	-14-4-B - FB	ad been a st				یه دیکھر ۲۰ ۲۵ م میں،		l. Ar baka ngan ndan nga nakan nga naka nasar	a
	January	February	March	April	L May	June	July	Augus :	Contem.	Octo.	November D	ecem.er
Maximum temperature	31.9	34.5	35,9	35.3	, 33.3	30.0	28.6	29.1	30.2	30.8	30.9	30.6
Minimum temperature	21.3	<u> </u>	23.5	24.9	24.7	23,4	22.9	23.2	23.4	23.3	23.0	22.2
Relative Humidity %	58	57	62	69	7 8	06	88	86	83	81	7 3	66
No. rainy days	0	1	1	4	9	22	25	21	13	12	6	2
Rainfall (average of 10 years	2.01	7.0	5.0	5 0. 0	165	817	760	463	234	271	177	15.0

AMMERURE-II

LIVESTOCK PARTICULARS

1.CATTLE

та ж. же ж. ж. та так та У	Jx	HFx	₿ . S∷	Others	Total	Buffaloes	(rand Total
Calves O-3m							
Males	Nil	Nil	Nil	· · · Nil	Nil	Nil	Nil
Females	<u>A</u>	-	8	6 .44	12	***	
Total	4		8		12		12
Calves 3-6m							
Males	-	-	-	-		-	2000Q
Females	14	01	14	6	29	love	29
Total	14	01	14	s -1	29	-	29
Heifer 6m ab	OVO		. 33	ra	03	~~	03
Cows in milk	50	8	45	1	103+8 exptal		111
Cows dry & pregnent	40	2	46	м	38+51		139
Total	90	10	88	-	188		
Bulk	Nil						
Buffaloes						01	01
Bullocks					07		07
Grand Total					239	×	302

VAS-10

PARTICULARS OF RESEARCH STATIONS

Name of Station	: University Poultry Farm & Duck Farm
Zone in which located	: Mannuthy
Address with Pincode	: University Poultry Farm and Duck Farm, Mannuthy - 630 651
Phone No.	: No tulephone connection

: No telephone connection Nearest phone = 25237 (AICRP on Poultry)

History of the station

: The station was orginally a regional Poultry Farm of the department of

Animal Husbandry established for the purpose of multiplication and distribution of superior egg laving germ plasm. On the 1st of February 1972 the farm was transferred to the University on its formation. During 1973 - 74 it came under the technical control of the Department of Poultry Science. The farm/then transformed into a research and instructional establishment.

The farm functions as a field laboratory of the department of Poultry Science catering to the research and academic needs by providing materials and facilities for research and teaching. The station maintains five breeds of domestic chicken, a breed of turkey and quail. The main functions revolve around reviving the available germ plasm production and distribution of cross bred chicken for backyard poultry farming, taking up independent and associated research on all aspects of poultry production, provision of training facilities to college departments and development departments and distribution and sale of poultry produces.

I. Farm AND LAND PARTICULARS:

1. Farm location:

a)Latitude

10° 32"N 0

•

b)Longitude

76° 16"E 00

c)Altitude(MSL)

22.25m above MSL

d)Name of high way with

KM stone particulars : NH 47 Km - 6 from Trichur e)Nearest railway station: Trichur

2. Land particulars: a) Total area of farm : 1.5ha (ha) i) University lands : Whole ii) Loased lands : Nil : Nil iii) Others(Specify) - b) Classification of land: i) Wot land (ha) 00 ii) Garden land (ha) : 1.5 ha • iii) Dry land (ha) 3. Heteorological data (as annexure) 0 634 a)i)Rainfall ii)No. of rainy dayd : \$3.4 b)Temperaturo i)Maximum : 31.67+0.89°C Maan 27.61 : 23.55E 0.40°C ii)Minimum c)Relative humidity : 73.99 + 2.51% - Average 4. Soil types: .i) Classification and area: NA ii) Nutrient status of NZeach class 5. Cultivation pattern : i) Total area of farm(ha): ii) Total area under • cultivation(ha) 0 a) Experiments b) Bulk cultivation(ha) 0 : Almost whole area occupied by iii) Area occupies by buildings (Poultry house & others) buildings, roads, threshing floor etc.(ha) iv) Area not utilised/vacant : v) Area not suitable for: cultivation

6. Ci	copping pattern:			e e e
i) Crop grown	: No crops	2	
) Perennial crops and their area (ha)	: NA		
b) Annual crops and area	(ha): NA		3
7. OI	nt turn/Yield of crops	: NA		
8. Pa	rticulars of buildings	c		
	Buildings:	<u>م</u>		
_,				
Sl.Nc	. Name of building			Cost etc.
скански актор	antona a antanananta antanan an		ccupatic	an Constantian State and a second state
1	Brooder Houses - 1	94m ²	1952	Cost not ascer- tainable since
0	-do- II	112	11	old buildings
2	Broiler house	361m ²	1964	11
3	Breeding house No.I	$479m^2$		11
4	Breeding house No.II	409m ²		Cost available
5	Duck breeder house		11	with the DPP's Office since
6	Duck layer house No.I	0	11	constructed _
	MO.II		1987	and handed over to this
7	Grower house No.I	424m ²	1983-84	1 Office by the
	(] ()	424m ²	1986-8	Engg. Wing of KAU
8	House for experimenta. birds(study purpose)	1 300m ²	1987-3	
9	Field pens - 16 nos.	25m ² each	1952	Old building - cost not
ii)Farm structures:			known
	Threshing floor, seed	stores, net h	ouse, gl	ass house etc.
	P	NIZ.		
iii)Fencing and boundary v Total farm perimeter	vall : Appro x:	imately	800 mtrs.
	Fencing availabko			pound wall)
9. i)	Irr igation facilities			
û.	Source of irrigation river/we ll /others	: NA		
ii)	No. of wells - Open we tube wells/others	slls/ : One oper	n well	

- iii) Pumping source with : Not available. Depend on main
 HP Electric motor/ pumping source
 oil engine
 - iv) Area irrigatable in farm: NA
- 10. Livestock particulars:

Particulars of animals No Age

NA

 Particulars of Poultry: Particulars of birds as on 31-7-87

Details furnished on page 8

NLO

AGE	но
0-1 month	289 nos Bro
1-2 months	1102 ,
2.003 11	-602 , j as S1.
304 11	
Adult - Malo	493 ,, >
Fomale	563 , , (
	more more mand mang thing thing that turk turk to a similar to the second thing thing
Total	3019 nos
	service baying from the service of the service of the service barries being from the

12. Farm machineries

Cost Sl.No. Name of machinery Generator 10 KV Kirloskar make Purchased and supplied 1 by the Director of Physical Plant Supplied from Veteri-2 Incubators nary College - Unicof supply Allwyin refrigerator - 268ltrs. capacity 3 : Nil 13. Equipments 14. Budget particulars: Total for the station including all schemes (Rs in lakhs) Year Actual expenditure Annual receipts Profit(+) or Loss (--) (--) 2.93 3.09 6.02 1982-83 (...) 3.87 2.57 6.44 1983-84

Bread with information furnished on page 8 as annexure to Sl.No.10

1984-85	8.16	4.74	() 3.32
1985-36	8.25	3.54	() 4.71
1986-87	5.97	1.08	() 4.89
1987-88 (anticipated)	8.5	2.5	(~) 6.0

15. Budget particulars - For bulk cultivation of crops

NA

16. List of ongoing schemes/projects and data of implementationi) University Scheme(Plan)

1) Duck Farm for training and research

2) Selection and management studies in Japanese Quails for meat production.

ii)N(n-1	Plan	Scheme		Nil	
iii)ICAR	Sche	eme (Other	: than	NARP)	Nil

	、	 	the Wanter sites
iv)NARP			Nil

v)Other(Specify) Nil

- 17. Particulars of experiments conduced Give titles discipline-wise
- 18. Staff particulars

i) Scientific

Category	Sanctioned	in	provision	romarks
Professor	Nil		One	Dr R Sabarinathan Nair, Professor, Department of Poultry Science
Professor	Nil		_	Dr R Sabarinat Nair, Frofesse

Assoc Professor One

Jr.Asst. Professor two

المعادشات الم

· ·

-- /

Dr.CV Andrews, Asst.Professor working against the post.

the station.

holding charge of

Both posts are lying vacant One post from 1-12-82 and the other one since creation ie. from 1/85

ii)Para technical

Titla of Scheme	Farm Mnnager	Form Fo C Aust.An Gr.I Gr	st.	Asst.	Asst.	Total ·	
Selection and Management Studi in Japanese Quai for meat product	15		1	••	••	1	5
University Poult Farm & Duck Farm Mannuthy	,						
	.S.(Vety r.II Hr.						
	.A.(Vety r.Grado					З	
	.A.(Voty r.II) l					
Poultry Attendan	ts - Sand	ctioned	3 in	positi	on 2		
iii)Administ:	rative ar	na suppo	rtin	g starf	e o		
Title Ad.Offic Ad.Asst	cer/ Acco Off:	ounte Sad icor Of:	ctio Sice	n Assts r	. Typi- sts	Peons Total	
Uni.Poultry Farm & Duck							
Farm, Mannuthy A		•	ə •	2	• •	1 4	
19.i) Labour stro Class IV Por	manent H	ermanent Casuals	: C	asuals	Tot.	al	
	.e=2 ale=12	••	aco noo cor ma: tho	ing eng cording cessity ntral l intainc Foddo ficer	to : from ist d by	14	
ii) Wages rates	at pres	ent for	difi	Eoront	categor	Les:	
Wage. rate	of Perma	nent lak	oure	ors.			

	Malc	Femalo	
Basic wages	230,00	240.00	
Fixed DA	45.00	45.00	
Variable DA.	455.40	455.40	
Interim relief	30.00	30,00	
HLA	5.00	5.00	
Washing allowance	3.00	3.00	Wages for
	bring linest drive crise army hits, along	P∼૨ કેનેલ્સું IP∴ટ્રે String trung davag Svort	July 1987
Total	313.40	778,40	
	total Print March Long Print Colling and a	<u> </u>	

Casual labourers			
Basic Wages		5.25 por day	
DÀ	22.40 11	2.2.540	Wages for July 1987
	29.15		Dary 1987
20. Percentage of exp the salaries etc. iii) Labourers			
1. Staff	13.16%	\$	And the strength
2. Para technical	staff 24.40%	Cotails perta	
3. Permanent labo	ourers:21.24%	year ic. 1986	ms7
4. Casual labour	ors: 3.5%	<pre>{</pre>	
21. Salient research station. Give do			
i) Upto 1956			
		multiplied. Rh	ode Island
iii) 1972 - till da	te		
	horn F strain t ying test	opped the IVth	Random
2) Austra wh as suitab	ite cross ident le germ plasm f	ificd, tested a or backyard rea	nd released ring.
3) T. rkeys w	ara introduced :	for instruction	
4) Quails pr	oduction initia	ted	·
	ire breed of ch roiler breeding	icken introduced	d to
6) Capon pro	duction technique	ues perfected	
			·
22. Farm revenue impr			
i) Details of bul	k/commercial cu	ltivation undert	aken
	11 7.		
ii) Area still ava. cultivation.	ilablo for under	ctaking bulk/com	nmercial
		*	
23. Any other relevant			
been placed for	fication facilit forking of the s two incubators two months. T	station. Orders	to be
	$\mathcal{J} \to \infty$		

the station is not yet ready for commissioning for want of generator connection. Unless this set up is completed in all respects and handed over to the unit, progress cannot be made.

- The poultry houses are open to all manner of people due to lack of perimeter fencing. Restriction of such restriction have to be made available for better management.
- 3. Paucity of funds is affecting efficiency. Many a time it has to be compremised with substandard feed(even though pro-rata cuts are made)for want of funds for arranging quality feed from other sources. Enough and timely funds should be made available for effective action.
- 4. Paucity of scientific staff is a major impediment for progress. At least two Assistant Professors for effective implementation of programs and required. In the present set up effective implementation of scientific management if not effective due to lack of supporting scientific staff. Head of Office is involved in teaching and guidance in academics also over and above of the administration of the unit.
- 5. At present, sales section is managed by para technical staff. Since the employee is full engaged in this section throughout the day, technical man power is wasted on other duty. An assistant with accountancy experience is absolutely necessary for better functioning of the sales counter.
- 6. Since the establishment has completely independent administrative set up paper work considerably increased consequent to the decentralisation of financial administration. Introduction of workers provident fund, new research schemes and the accounting of sale proceeds of varying nature has resulted in administrative stress. A proposal for creating of supporting administrative staff is pending with the University. Moreover no typist is provided which entails considerable additional administrative stress on the establishment.
- 7. The establishment do not have storage facilities. Feed and equipments are stored in duck brooder house due to necessity. Without proper store considerable difficulties are being experienced on this account. This is a major requirement for proper upkeep of materials.

8. There is no proper waiting room facilities for the labourers. Though a temporary facility is in use, a convenient and confertable waiting room facility is a marale booster. Other staticns have this facility. A proper waiting room for the labourers of this unit may be provided.

PARTICULARS OF RESEARCH STATIONS

Name of Station	0	University	Pig	Breeding	Farm
Zone in which located	•				
Address with Pincode	•	Mannuthy 🛏	680	651	
Phone No.	•				
History of the Station	0				

On 12-1-1965 the Pig Breeding Farm, Mannuthy was started functioning as part of Project Pig Breeding Farmcum-Balcan Factory. It had a foundation stock of 100 sows and 10 boars of LWY breed brought from Hazeinghatta (W.Bengal). The Institution was later on transferred to the KAU on 1-2-1972 for instructional purposes.

I. FARM AND LAND PARTICUL ARS

1. Farm location:		
a)Latitude b)Longitude		10°32N 75°16E
c)Altitude(MSL)	0	
d)Name of road/high wa with KM stone particulars	Y:	22.5 metres NH 47 at 62 km
e)Nearest railway station	•	Trichur
2. Land particulars:		
	0	
i)University lands	•	4 ha
	0	6-75
iii)Others(Specify)	•	bed.
b)Dlassification of land	100	
i)Wetland (ha)	0	1
ii)Garden land (ha)	0	Yeas
iii)Dryland (ha)	0	-
3. Meteorological data		
a)i)Rainfall	0	eog.
ii)No. of rainy days	0	F -1

80 nos.

'IWo :

Onc

Onc

b) Temperature	
i)Maximum (°C) -	
ii)Minimum (°C)	
c) Relative humidity : -	
4. Soil types:	
i)Clascification and area: -	
ii)Nutrient status of 🛛 : - each class	
5.Cultivation pattern:	
i)Total area of farm(ha) -	
ii)Total area under : cultivation	
a)Experiments :	
b)Bulk cultivation :	
iii)Area occupied by buildings,: - roads, threshing floor ste.	
iv)Area not utilisod/vacant :	
v)Area not suitable for : - cultivation	
6.Cropping pattern:	
i)Crop grown	
a)Perennial crops and their :	
b)Annual crops and area 🛛 : -	
7. Out turn/yield of crops : -	
2.Particulars of buildings:	
i)Buildings	
Pig styes	
An Brandford An An Andrew Andrew	
1. Open styes partially covered -	80 1
2. Weighing shad	Onc
3. Farrowing Houses -	'Ivio
4. Store building	Onc
5. Shelter house for farm labourers -	
6. Administrative Office building -	Onic

ii) Farm structures : -

iii)Fencing and boundary wall Total farm perimeter (in metres): Fencing available (in metres) Boundary wall all round the farm area 9. Irrigation facilities: i)Source of irriation river/well/others • ii)No. of wells - Open . wells/tube wells/thers iii)Pumping source with : Electric motor - HP(+)12.5 HP - Electric motor/ (2)12.5Oil engine Oil engine - HP(1) 8.0 iv)Area irrigatable in : NA farm 10.Livestock particulars: Particulars of animals No. Age Pigs 450 alì ages 11. Particulars of poultry Particulars of birs No ΝA 12.Farm machineries: Sl.No. Name of machinery Cost Power washer HP 3.0 with Pump - Rs.13,500/-1 2 Feed Mixer and Grinder KE (HP 5.0 7,900/-HP 3.5 13.Equipments 14.Budget particulars: Total for the station including all schemes Actual expenditure Actual receipts Profit(+)or Year loss(-)Statistical concerns 1982-83 3,99,296 1,19,502 (-)2,78,794 1983-84 6,12,768 1,83,906 (-)4,28,862 1984-85 6,53,807 1,70,746 (-)4.83,061 1985-86 6,44,219 1,46,996 (-)4,97,223 1986-87 6,72,507 2,92,033 (-)3,80,474

37,640

1987-88

3,23,220

V.35-21 15. Budget particulars - for bulk cultivation of crops 16. List of Ongoing Schemes/Projects and data of implementation: i) University scheme (Plan) ii) Non-Plan Scheme iii) ICAR Scheme iv) NARP v) Others 17. Particulars of experiments conducted - Give titles discipline-wise 18. Staff particulars i) Scientific: Assistant Professor - 1 (On Study leave from 25-6-87 onwards) Jr.Asst. Professor - 1 (Vacant) ii)Para technical Title of Scheme Farm Farm Total Manager Asst. Gr.I 1 1 2 iii)Administrative and supporting staff: Title of Scheme Section Assistants Typists Peons Total Officer Administrative 1 2 1 4 Assistant 19(i) Labour strength: Class IV Permanent Permanent Casuals Total casuals ----ter sak aprocessages as supress Kolapartikoraginada ola Pig Attendant -2 . 8 Permanent labourers working in farm Watchman-1 5 Permanent labourers 16 working in other departments of Vety. College as Class IV

800746

ii)Wages rates at present for different categories:

For Permanent Labourers

Balic Pay + Variable DA + Fixed DA + IR

For Casual Labourers

For men labourers - Basic Wages + Variable DA For Women labourers -

20. Percentage of expenditure over total incurred for meeting the salaries etc. of i)Staff ii) Para technical and iii) Labourers

Excess expenditure incurred only under the head cost of Seasonal labourers for the year 1985-86 (25%) and 1986-87 (10.55%)

- Salient research achievements in brief since inception of station. Give details separately for the periods;
 - i) Upto 1956
 - ii) 1956-1972 Pigs distributed to farmers from the Farm

1965-66	- 68 nos
1966-67	- 228
1967-68	- 185
1968-69	- 463
1969-70	- 813
1970-71	-1118

iii) 1972 - till date

Pigs produced

~	826
-	1029
-	857
-	747
	793
	1 1 1

22. Farm revenue improvement programme

i) Details of bulk/commercial cultivation undertaken Crops grown, area, year of planting, hectare yield obtained, total production, expenditure and income realised - Details for 5 years may be given.

ii) Area still available for undertaking bulk/commercial cultivation -

23. Any other relevant particulars:

Only 40% of the total capacity of the farm for Pig production is being utilised. There is constant demaced for pig. The pig production can be enhanced if sufficient funds are made available for the purchase of feed.

PARTICULARS OF RESEARCH STATIONS

Name of Station	e o	Livestock Research Station, Thiruvazhamkunnu
Zone in which located	00	Central Zone
Address with pincode	o a	Livestock Research Station, Thiruvazhamkunnu, Alanaloor (Via), Palghat District Pin - 678 606
Phone No.		43 Alanalloor

History of the Station:

The farm was started in the post war development scheme of Animal Husbandry Development of Madras in the year 1950, with its office of Perinthalmanna. Farm was then transferred to Department of Animal Husbandry, Kerala and to Kerala Agricultural University. It was converted to Livestock Research Station with effect from 14-8-1978. AICRP on Agroforestry started with effect from 8-12-1983.

I. FARM AND LAND PARTICULARS:

1.	Fai	rm location:							
	a)	Latitude	•	Situated	15km	North	of	Manna	arghat
	b)	Longitude	:						
	c)	Attitude	0						
	d)	Name of road/hi way with KM sto particulars		8km from lies betw Melatoor					n *
	e)	Nearest railway station	:	Melatoor		*			
2.	Lai	nd particulars:							
	a)	Total area of f (on ha)	arm:	163.3 ha				80 11	
	i)1	University lands		NIL					
:	ii)	Leased lands	•	Nil					
1:	ii)	Others(Specify)	•	Nil					,
	b)	Classification	of l	and :					
	i.)	Wetland (ha)	0 0	6.85 ha					
2	L1)	Garden land(ha)	0	152.02 ha	a	N.			
1.	ii)	Dryland (ha)	0 •	Nil					

3.Meteorological data(As annexare) : 300cm a)i)Rainfall(incurmonthwise average of 10 years) ii)No. of rainy days : Details not available b) Temperature (Mean monthly values as annexure) i)Maximum (C) : 38.8% ii)Minimum (°C) : 23.5°C : 23.5°C c) Relative humidity • 4.Soil types: i) Classification and areas: Not available ii)Nutrient status of : each class 5.Cultivation pattern 0 i)Total area of farm(ha): 163.3ha ii)Total area under : 126.5ha cultivation(ha) a)Experiments (ha) . 5.2 ha b)Bulk cultivation(ha): 121.3 ha iii)Area occupied by : 10 ha buildings, roads, threshing floor etc(ha) iv)Area not utilised/ : 32 ha (Under forest) 80074vacant(ha) v)Area not suitable for cultivation(ha) Nil 0 6. Cropping pattern: i)Crop grown • a)Perennial crops and their area(ha): I. Fruit Area under each Area under Bulk culticultivation crop vation J.Jk trees 184 nos. 184 nos. -----Mango trees 136 nos. 136 nos. -----II.Spices Pepper 0.5 ha 0.5ha -III.Beverage Crops ~ 3 -IV.Ornamentals -V. <u>Platation</u> Crops Coconut 19 ha 19 ha

r -

	Arecanut	1 ha	C 4	lha
	Cashew Rubber	1 ha 130 nos.		130 nos.
	b)Annual crops a area(ha)	nd :		
I.	Cereals	Total arca	Area under	Bulk culti-
	Jowar	1 ha	cultivation	vation 1 ha
	Maize	1 ha	ana.	1 ha
II.	Grasses		ā	i i i
	Hybrid napier	11.4 ha	e.19	11.24 ha
	Guinea grass	1.83 ha	A	1. 83 ha
	Penniseturm pedico	ellatum 6.00 ha		6.00 ha
	Thin Napier	1 0 ha	600	10 ha
	Spear grass	19.36 ha		19.36 ha
	Pasa grass	4 ha	874	4 ha
	Toesinte	5 ha	-	5 ha
	Gors legume	6.10 ha		6 . 10 ha
	Congosignal(New pl	anting) 6 ha	-	6 ha
III.	Pulses	Nil	~	-
IV.	Oil Sceds	Nil.		-

. 7. Out turn/yield of crops:

Crop	Arca in ha	Average yield	avera-	Cost of culti- vation	Income/ ha	Romarks
that that this proj	PRE-126 BUD BUD GARFUL PLA	ena kontra cata a cata ca kan	L 38 ET 3 6	6.3 (. 3 K 3 6.3 f .2 / 3	са са ка калења с в са са	ena cas cua cua cua cua
Coconut	10ha	35nuts/tree per year	L 34	e.a	22050	
Cashew	100nos/ha	NA	649	50.0 MH	3755	60 M
Pepper	0.5	N7.	Lag.	• 4	3850	at og
Arecanu	t 1 ha	NA		844	2890	
Jack	184 nos.	MN	1		3750	Brig
Mango	136 nos.	NZ	t.a	64-19	8003	-
Fodder (Crops					
Hybrid 1	Napier 11.24	35.40 to	ns-	(cont	- (Fo	dder crope
Cuinea g	gars 3.83	30.35 to	ns-	-	_ (use	ed to
Congosir	ngal 6 ha	2.25	, -	ana -		eding ttles of
Para gan	s 4 ha	20.25 ha		genes.	- \$ the	J farms
8.	Particulars i) <u>Buildings</u>	of buildings	0			
Name	of buildings	5 <u>Pl</u>	inth ar	Ca	Cost in	1 Rs.
Supe	erintendent Ou	larters	ΗA		13,50	20
Vete	erinary Surgeo	ons Quarters	МĄ		8,80	00
	loor line	14403808 - 281 - 28 - 90	NA		7,10	00
Att.	ched bathroom	n	NZ.		671¢	
Rest	House -	2 rooms -	NA		5,60	00
Latr	inc	3 nos	NA		MA	<i></i>
Milk	cattle shed	for cows	NA		38,00	00
Offi	.ce Diary & st	orea	MZ.		28,00	00
Kola	tion shed		NA		1,50	00
Disp	ensery		NA		1,50	00
Mana	gers Auarters	3	NT_{1}		1,50	00
Acco	untants Ouart	ers	MД		8,80	00
D ty	pe quarters N	10.182	MV		7,40	00
Catt	le shed		NA		8,10	0
Calv	ing shed		M^{2}		18,28	3
Rest	room for cas	ual labourers	A MA		17,00	0
Dupl	ex quarters 2	nos	***		20,00	0
2	1	1	- • 7			

ii) Farm structures: Nil

iii)Fencing and boundary wall	
Total farm perimeter :	8 km
Fencing available :	1 km
9. Irrigation facilities:	
i) Source of irrigation	
- river/well/others :	River and well
ii) No. of wells -	Open well - 1 no.
open walls/tube wells/ others	
<pre>fii) Pumping source with : HP - Electric motor/ oil engine</pre>	GEC Motor 15 HP 2900 RPM
iv) Area irrigatable in farm:	
10. Livestock particulars:	
Particulars of animals	No
Milk Animals	68 Adult above 6 years
Breeding bulk	5
. Pregnent animals	20
Heifers (above 2 years)	28
Heifers (below 2 years)	40
Dry cows	43 Above ten years
Calf	40 Below six months
Calf	29 Above six months
11. Particulars of poultry:	
Particulars of birds :	
λ	
12. Farm machineries(Costing mo	pre than Rs.5,000/- only):
Sl.No. Name of mac	cost Cost
1.Hindustan 50 HP Tractor	NZ.
2.M.F. Tractor 35 HP	NN
3.Kuboto Power Triller(12	
4.Kirlosker motor KW/LP RPM - 2400 9.3/12.5	AM NA
5.RN Engine F.B 264	NA
6."*rloskar - 10 H No.111001/62 Disel engi	
7.Kirloskar 5 HP No.50259	Engine NA
8.10 HP Motor	NZ.
9.GEC Motor 15 HD 24000 r 10.Generator P o toble type	

13. Equipments:

<u>Cl.No.</u>	Name of equip	oment	Cost
1	Fridge	2 nos.	NA
2	Tula man portak scale	olo platform	Rs.5,844.70

14. Budget particulars: Total for the station including all schemes (Rs in lakhs)

Year	Actual expenditure	Actual receipts	Profit(+) or
K. analisa adda. add 1204	the state of the s	مى مەركىيىلىكى بىلىكى تىكى بىلى تەركى يەركىيىلىكى يەركىيىلىكى بىلىكى يەركىيىلىكى تەركىيىلىكى تەركىيى	loss(w)
1982-83	Rs.13,19,660.60	2,33,061.06	
1983-84	14,63,252.04	1,57,398.39	
198485	15,35,581.84	2,58,518.04	
1985-86	19,97,273.02	3,52,352.82	
1986-87	20,87,702.26	4,69,509,69	

15. Budget particulars - For bulk cultivation of crops (Rs in lakhs)

Year	Actual expenditure	Actual receipts	Profit(+) or
Wild Mint Brindston Barret	n an	Managana Man	loss(=)
1982-83	-		
1983-84	-		
1984-85	~		
1985-86	-		
1986-87	20,87,702.26	4,69,509.67	-16,18,192.50
1987-88	-		

16. List of ongoing schemes/projects and data of implementation: i)University Scheme(Plan) : Nil ii)Non-Plan Scheme : Nil iii)ICAR Scheme(Other than MARP) : AICRP on Agro-forestry

iv)MARP	o 0	Nil
V)Others(Specify)	0 0	Nil

17. Particulars of experiments conducted - Give titles discipline-wise

1.Diagnostic survey and appraisal of existing farming system and Agroforestry practices

Completed - Agronomy

2. Collection evaluation of promising ssp/cultivars of fodder and small timber trees.

Ongoing scheme - Agronomy

3. Studies on management practices of Agroforestry system.

Ongoing scheme

18. Staff particulars:

i)Scientific

Associate Professor i/c - 1

Jr. Assistant Professor - 4

Title of Scheme	Assoc Prof. Director	Assoc Asst. Prof. Prof.	Jr. Asst. Profe.	Total
AICRP on Agro-forestry	Spl.Officer	• ⁴ • 1 •	4	5

ii)Para technical:

Title of Scheme	Fa r m Manager		Asst.	Lab.Asst. Gr.I	Lab. Asst.	Total
Barradona B. St. St. State Strategy of	1	Gr.I	Gr.II	No. andrea affer a generation of the second stream of the second st	Gr.II	hara din Salita (dana dina di dina)
AICRP on						
Agro-	Nil	Nil	2	-	1	3
Forestry					_	C

iii) Administrative and supporting staff:

Tital of	Scheme Admn. Offic		Typists	Peons	Total		
Martalia (B. 1966) - Maria di Santa (B. 1977) - K	an at was been been a block the the state of the same of	alan, ditang bar ditan Dita Bardina an Manaka a dina dikatikan di	North California and a strange of the Strange	1			
AICRP on		E.un		1	1		
Agro-fore:	stry				_		
19.i)Labour strengthe:							
Class IV	Permanent	Permanent (Casuals	xx	Total		
On the subscription of the		Casuals			1000		
		Birdin & Josefin Bird Hards at Bu	and the second statements		La dia dia dia dia dia dia dia dia dia di		
15	70	30	29		149		

ii)Wages rates at present for different categories:

1.	Permanent	labourers	25.65	· .
	Permanent Casual lab	casuals and pourers	29.65 28.15	

 Percentage of expenditure over total incursed for meeting the salaries etc. of i) Staff ii)Para technical and iii) Labourers

1)	Salaries of Staff	1986-87	2,76,453.33	13.25%
2)	Paratechnical	11	3,64,093.32	17.43%
3)	Labourers			
0 /	a) Permanent		6,56,844.19	31.46%
	b) Casual labourers		3,43,432.38	17.41%

21. Salient research achievements in brief since inception of station. Give details separately for the periods:

i)	Upto	1956	Nil
als /	0500	1200	L I toka and

ii) 1956-1972 Nil

- iii) 1972 till date :
 - Effect of group housing and individual housing in the performance if calves have been studied. Studies revealed that the group housing has significant improvement in its g rate, feed consumption and general well being.
 - 2) In study, adult Malabari goats were geoned under traditional housing system prevalent among the tribes. Consisting of platform floor and tatched root. The goats have comparable performance with respect to growth and feed consumption with fact of animals kept in conventional method.
 - 3) Pellet feed and mash feed were compounded in one study and pellets from were find to be betters them that of mash.
 - 4) AICRP on Agro-forestry
 - a)Diagnostic survey and appraisal of existing farming systems and agro-forestry practices (Completed)
 - b)Collection and evaluation of promising species/ cultivars of fact, fodders and small timbers trees, species (On going)
 - c)Studies on management practices of agro-forestry system (on going)
- 22. Farm revenue improvement programme:
 - Details of bulk/Commercial cultivation undertaken Crop grown, area, year of planting, hectarc yield obtained, total production, expenditure and income realised - Details for 5 years may be given
 - ii)Area still available for undertaking bulk/communcial cultivation :

An area of 50 acres can be brought under fresh coconut plantation, along with other intercrops. Vegetable cultivation can also be taken up provided these are facilites for irrigation.

PARTICULARS OF RESEARCH STATIONS

Name of Sration

: MANNUTHY

Zone in which located

Address with pincode

: South

: All India Co-ordinated Research Project on Goats for Milk, Mannuthy, Trichur- 680 651

Phone No.

: 25237 PP

History of the Station

: The Project started functioning

as a milk component of the AICRP on Goats, with an objective of evolving milch breed(s) suitable for the Agro-climatic conditions of Kerala State by cross-breeding Malabari does with Sannen and Alpine bucks. With this objective, 123 Malabari does in the first lactation and 2 bucks were purchased locally and 6 saanen and 2 Alpine bucks were brought from NDRI, Karnal. According to the technical programme, the Molecari female purchased should have had a minimum first lectation milk yield 9½ litre/day and Sannen and Alpine males had a dam's yield of 1000 and 900 litres per lactation, respectively.

Using the above breeds of animals, Six two-breed crosses (AM, F_2A , F_3A , SM, F_2S and F_2S) and four, three-breed crosses (SAM, SSM, ASM & AAM) were generated. For contemporary compari-6on, pure bred Malabari was also produced in sizable numbers.

Initially the target of milk production of the cross brece was fixed as 300 kg in 150 days of lactation. But since it was felt that the target fixed was quite unrealistic to achieve, in a later workshop the target was refixed at 200 kg in 120 days of lactation.

According to the recommendations of the VIII workshop, it was decided that only half breds would be produced in the Unit, as there was no advantage in generating genetic groups with more oxotic inheritence. Thus, the three breed crosses were entirely eliminated. Thus at the end of September 1987 the unit was having a flock strength of 411 consisting of 34 males and 377 females.

I. FARM AND LAND PARTICULARS:

1. Farm location:

a)Latitude

b)Longitude

: 10°32'N

- : 76° 16'E
- c)Altitude(MSL) . : 22.25 metres above sea level
- d)Name of road/high : NH 47, 7km from Trichur way with KM stone 1 km from NH r7 particulars
- e)Nearest railway : Trichur station

2.Land particulars:						
a)Total area	of farm (on ha)	•	6.5ha			
i)University	lands	00	6.5ha			
ii)Leased land	S	00				
i ii)Others		0				
b)Classificat.	ion of la	incl	0			
i)Wetland (ha		0 9	5.0 ha			
ii)Garden land iii)Dryland (ha		00	1.5 ha			

3.Meteorological data

a)i)Rainfall

Parameter	Total	Tem	erature	Relative h	umidity
Month	Rainfall	Maximum	Minimum	Maximum	Minimum
January	1.8	33.2	19.8	90	i but was and bud reading 44
February	11.4	35.6	21.3	92	35
March	3.8	37.2	22.8	93	38
April	45.0	37.6	23.7	92	46
Мау	155.8	35.7	23.5	94	57
June	842.3	31.4	22.6	97	73
July	738.4	30.1	22.1	57	71
August	503.9	30.4	23 .1	96	73
September	231.6	31.4	22.4	95	64
October	257.2	32.3	21.8	95	56
November	147.4	32.3	21.0	91	52
December	39.6	32.3	20.6	88	44
turita da star a di di stara star	an a	- Marina and Alamatica -	Annal & at Statements and	- Curr - C. and a decade and - State - State - Paris	and the second

4. Soil types:

i) Classification and area: Sandy clayey loam ii)Nutrient status of each class:

Constituent	Content in soil	
Organic carbon	0.47%	Soil reaction $p^{H} = 5.4$
Available Nitrogen	0.058%	Electrical condu- = 0.35 ctivity
Available Phosphor	ous 0.003%	(mm hos m-1)
Available potassiu	m 0.008%	

\$

5. Cultivation pattern:	
j)Total area of farm(h) : 6.5 ha	
ii)Total area under cultivation(ha)	
<pre>iii)Area occupied by buildings, : roads, threshing floor etc (ha)</pre>	
iv)Area not utilised/vacant(ha) :	
v)Area not suitable for cultivation	0
6.Cropping pattern:	
7. Out turn/yield of crops:	
8.Particulars of buildings:	
9.Irrigation facilities : Does not	arise -
10.Livestock particulars :	
11, Particulars of poultry:	
12 [*] .Farm machineries:	
13 [*] Equipments:	

14.Budget particulars : Total for the station including all schemes (Rs in lakhs)

Year	Actual	expendit	ure Actu	ual receipts	Profit(+) or loss(-)
Roma OF, Scandthe, Californi, an	here and a second second second	Seculation and secure and secure and seculation of the second security of the second	duality building	and a g and a second second second	the state of the second s
1982-83		7.09		0.50	6.59(-)
1983-84		8.35	<u> </u>	0.59	7.76(~)
1984-85		8.23		0.75	7.48(~)
1985-86		9.62		9.84	8.78()
1986-87		6.49		1.17	5.32(-)
1987-88 (antici	pated)	11.70		1.17	10.53()

15.Budget particulars - For bulk cultivation of crops

Nil

.

Annexure to Sl.nos.8*,12*,13*

8. Particulars of buildings:

Sl.	Buildings	Plinth area	Year of const-	
No.	Same and Same and a state of the state of th	Banggi anga ang dan sakangkangkangkangkangkangkangkangkangkan	ruction	
a)I. Office		10x5.7	1955	
II. Office a	attached to main farm	6.75x3.5	1974	

b)Staff room No separate rooms for staff except the sitting place in the office and in the respective departments.

c)Laboratories - No separate laboratories except the facilities available in the respective departments of the college. Only an AI Laboratory of the size 3.5m² is there attached to duck shed.

d)I.Store rooms	6x5m	1965
II.Feed store attached to mai	n 4.5x3m	1978
farm		
e)Goat sheds scattered in three different places	A total shed area of 1100 Sq.mtr. is available	1963, 1965, 1973 & 1978

12.Farm machineries

Sl.No.	Nome of machinery		Cost	
1	Tempo Van	Rs.	20,000/-	
13.Equipments				
S.NO.	Name of equipment		Cost	
1	Spectronic 20 spectro- photometer	Rs.	13,750/-	
2	Portable platform scale (Avery) with animal cage	Rs.	8,300/-	
	-			

Annexure to Sl.No.10

Livestock particulars

GOATS	

		Proc	dwise	e i de c	
0-3 months	Malaba	ri Alpain x	Malabari	Saanen x Ma	Total
Males	1	7	Contact and Control of		
Females		8		ikang.	8
	-			to d	11
Total	4	15	ایسه وریه (تنا (تیا (تیا	61 63 83 63 63 63	
3-12 months	the side time of	ana anang kata diang anan anan	€3 8038 E.33 kom av	ng dung kung tila tung kung ting	L3 MM N3 N4 L3 L2
Males		5		5	
Females	7	44	• 1) ⁸	5	10
	· · ·	** *±		23	74
Total	7	5 648 649 648 648 848 848	tiunat kuca kuca kuca kuca	1 1936 633 63 64 63 63	La tua L18 C.3 and 619
TOUGT	/	49		28	84
	28 ALA ALA AN	6 46.8 And 128 and 129	634 may 633 may 623	. La La La La La La	الاست الست الست الست
Nullipara Adults(Male)) 5 .	6		5	
_		404 EX 64 EX 64		5	16
Adults in mi	1210	36			ana ang kon kon kon
Adults dry		159		11	57
	Т.д	109		62	235
Total		648 5-3 844 649 end	And and deep to be to	مناع من السل من السل السل السل السل السل السل السل الس	bud buds in 3 buds gaug gaug
	24	195		73	292
Narrah (a Manadata da Cara da C		an de an Rosanna de La Printer - de an Rosander - e	a . Da f data at - dan da da aparaja	a darah manangka ay a kangkanan an an kandona	an a star off the part of the star of the
15. Budget p	articu	lars: For b	ulk cultiv	vation of cro	20
Year				alreceipts	Profit(+)or
-		والواقعة والمحارك والمحالي والمحالية والمحالية والمحالية		L	Loss(-)
1982-83					
1983-84					
1984-85			Does no	ot arise	5
1985-86					
9868 7					

1937--88

16.	List	of	ongoing	Schemes/	/Projec	ts and	data	of	implumentatio);) •
-----	------	----	---------	----------	---------	--------	------	----	---------------	-------

	17		
NO	tion	- Project	Names & Investi- gators
	VA=3=1-4-10 (28-6-79)	The inheritance of certain qualitative traits in goal (eg.fassels, horns, colour etc)	n Dr.B Nabdas ts kumaraa
2	VA-7-1-16-6. (28-6-79)	Anaestheria in goats	1.Dr S Raveendran 2.Dr C Abraham- Varkey
3	VA-3-1-13-1 (28-6-79)	Comparative haematological studies on the Malabari, exotic and cross bred goats of different age groups	Dr(Mrs)PT Philo Min
4	VA-3-1-13-3 (28-6-79)	Certain aspects of reprodu- ction in Malabari and cross bred goats	• 1.Dr G Nirmalan 5 2.Dr.K Přabhakaran Nair 3.Dr E Mathai
5	VA-3-1-13-3	Structural and functional development of test is and dpididymis in goats	Dr Prabhakaran Nair.K
6	VA-3-1-133	Development and function of the ovary and the uterus in goat	Dr E Mathai
7	VA-7-1-11-6 (17-9-79)	Studies on wobbles in goats	1.Dr NN Aleyas 2.Dr NP Thomas
8	VA-7-1-11-22 (21-4-80)	Pathology of the reprodu- ctive organs in experi- mental Hypothyroidism in goats	Dr Nomali Mohan Reddy
9	VA 31-9 33 (6-481)	Study on kid startcys	1.Dr N Kunjukutty 2.Dr Annamma Kurian 3.Dr TV Viswanathan
10	VA~3~1~4~15 6~4~81	Growth rate of Malabari goats and their exotic crosses ynder extensive system of management	1.Dr G Mukundan 2.Dr BRK Nair 3.Dr KV Reghunandan nan
.1	VA-6-1-3-40 (12-11-82)	Role of olfactory signals in the reproductive beha- viour/Physiology of goat and swine	1.Dr CKSV Raj 2.Dr K Prabhakaran- Nair 3.Dr KM Alexander
.2	VA-6-1-3-43 (12-11-81)	Design and fabrication of an insemination c rat e for AI in Goats	1.Dr CRS Raje 2.Dr Josoph Mathew
.3	VA-7-1-8-15 (17-3-82)	Cellular and humoral immu- neresponses to corynchact- erium Pseudo ta berculosis infuction in goats	1.9r V Jayaprakasan 2. r Sulochana

VAS-38

1	2		ധം പം അം	4
14	VA61344 (17382)	Effect of frequency of eja- culation on semon characterist and libids in cross brod bucks	ics	Mutilda Joseph K Prabhakaran
15	VA=6-1-3-45 (17-3-82)	Preliminary trials on freez-	1.Dr	Aswinckumar Scrmah
			2.Dr	CKSV Raju
16		Lobectomy in goats	1.Dr	John Joseph
	(17-3-82)		2.Dr	PO George
17	VA-MNY-G-BG (ICAR) 25-7-83	Genetic studies on Polymor- phism of some blood proteins in goats		G Mukundan AK Shamsudin
18	VA-MNY-G-BG (18-7-84)	Blood groups and biochemical Polymorphism in Malabari goats and their exotic crosses		B Nandakumaran G Mukundan
	VA-MNY-G-AR (18-7-84)	Investigation on certain aspects of Coccid i osis of goats		Lucy Jacob K Madhavan Pillai
20	Va-MNY-G-PT (18-7-84)	Immunopathological response in pneumonia in kids		TV Anilkumar A Rajan
21	VA-MNY-G-SG (18-7-84)	Regional anaesthesi a of the hind limb in goats using Lignocaina hydrochloride		Phehlad Sarkar S Ramesan Nair
22	VA-MNY-G-SG	Influence of Glycerol gnacol for anasthesia in goat s		Balagopalan.TP KN Mohan
23	VA-MNY-G-MB 15 (18-7-84)	Bactereological quality of Goat milk		Kavesic Cha k lesame MV Sukumaran
24	VA-MNY-G-MB (18-19-84)	Comparative evaluation of different genetic groups of goats for growth, reproduction and production performances	2.Dr 3.Dr	BR Krishnan Na ir KC Ragha v an G Mukundan .TK Indira Bai
25	VA-MNY-G-PT (26-7 ⁸ 85)	Prevalance and Pathology of Chlamaclosis in goats		
26	VA-MNYGCM	Evaluation of liver function	1.Dr	Usha Narayana

NY-G-CM- Evaluation of liver function 18 in ruminal Aciosis in goats

7

.

1.Dr Usha Narayana Pillai 2.Dr KM Alikutty

À .

· · · ·

Ωt.zz+ ·····

17. Particulars of experiments conducted - Give titles discipline-wise

18. Staff particulars: i)Scientific

Title of Scheme Assoc Prof. Assoc. Asst. Ar.Asst. Total Dire. Prof. Prof. Prof.

All India Co- - - 1 2 1 4 ordinated Research Project on Goats

ii)Para technical

Title of SchemeFarmFarmFarmLab.TotalManagerAsst.Asst.Asst.Asst.Asst.Gr.IGr.IIGr.IIGr.IIGr.IIAICRP on Goats-21-3

iii)Administrative and supporting staff:

Title of Scheme Admn. Accounts Sect.Asst. Ty- Peon Dri- Tot.Officer Officer Officerofficer pistAICRP on Goats---3-15

19.i) Labour strength:

Class	IV	Permanent	Pormanent	Casuals	Total
			Casuals		
2		18	2		22

ii)Wages rates at present for different categories:

×.	Category		Wages
÷	Class IV		Rs.550-800
	Permanent 1	Labourers	175-275
	Permanent / Casuals (Men Women	Rs.29.85/day Rs.28.35/day

20.Percentage of expenditure over total incurred for meeting the salaries etc. of i)Staff ii)Para technical and iii) Labourers

tin the state of the	Category	Percentage of expenditure over total incurred for meeting the salaries
i)	Staff	29.28%
ii)	Para technical	31.95%
iii)	Labourers	- 38.77%

21. Salient research achievements in brief since inception of station. Give details separately for the periods;

i) 1972 till date

The body weights of the kids reared from birth to one year of age, indicated that the cross breds were superior to Malabari in growth in singles as well as in twins and triplets. In milk production, the cross breds were superior than the native Malabari. Saanen x Malabari had the highest average milk yield of 174.12 ± 18.42 kg in a lactation period of 190 days. The least square means for the first three lactations of different breeds are given below.

Genetic group Order of lactation						
Saucers Group	Ist	2nd	3rd			
two AND NOA MAY BUD COJ EUN NAA NOO NOO	TOC	Zha	SIG			
Saanan - Malabari	110.42 + 5.10	107.39+8.85	108.10+0.11			
Alpine - Malabari		89.61+6.67	92.09+0.11			
Malabari	51.36 + 6.11	68.61+8.75	57.94+0.15			
	(may	-	dime.			

The kidding efficiency in the flock was 61% on the basis of does available in 1985. The multiple birth was 44.2%. Reproductive traits, particularly age at first kidding was reduced by 31.2 days in Saanan crosses and 117.2 days in Alpine crosses, whereas kidding interval was increased by 87.3 days and 35.5 days respectively in the cross breds over Malabari. The reproductive efficiency measured in terms of rate of conception was highest (73.3%) in the does with normal cestrus cycle in kid mortality was found to be 7.59%.

22. Farm revenue improvement programme

- Details of bulk/commercial cultivation undertaken crops grown, area, year of planting, hectare yield obtained, total production, expenditure and income realised - Details for 5 years may be given.
 Does notarise
- ii) Area still available for undertaking bulk/commercial cultivation -Does not arise

23. Any other relevant particulars:

Though the project had received some saanen and Alpine bucks from the nucleus stock NDRI Karnal and those bucks could be used for the first five years of the project, no pure bred exotic bucks were available for the last one decade of research. This has caused much detereoratich and inbreeding in the cross bred population. This is more true with regard to the Saanan gene pool. Now the project has nearly succeeded in getting deep frozen semen from Switzerland. The semen will be from highly pedigreed champion bucks of saanen and Alpine breeds. So also, to widen the genetic base, selected Malabari females of high fecundity will be procured locally. Both these aspects will be threshed out in the XI workshop and strategies will be evolved.

With the amount provided for civil works in the budget and a matching grant from the University, the shed of 10,000 cc. feet area constructed in the inception of the project will be modified according to the humid conditions of Kerala. This will facilitate easy and cleaner management of goats.

Because of acute scarcity of qualified veterinarians to man the posts in the project, two posts are laying vacant for more than one year. The non-availability of Veterinarians may have to be tackled by making University posts more remunérative or by recruiting persons from other states.

800746

VA5-43

PARTICULARS OF RESEARCH MANIONS

Name of Station	8 0	Catt le Breoding Farm, Thumburmuzhi
Zone in which located	0	Central Zone
Address with pincode	00	Cattle Breeding Farm, Thumburmuzhi
Phone No.	•	

History of the Station:

- REPORT NOT RECEIVED -

編4 、 2番目 文を描え

.*

800746