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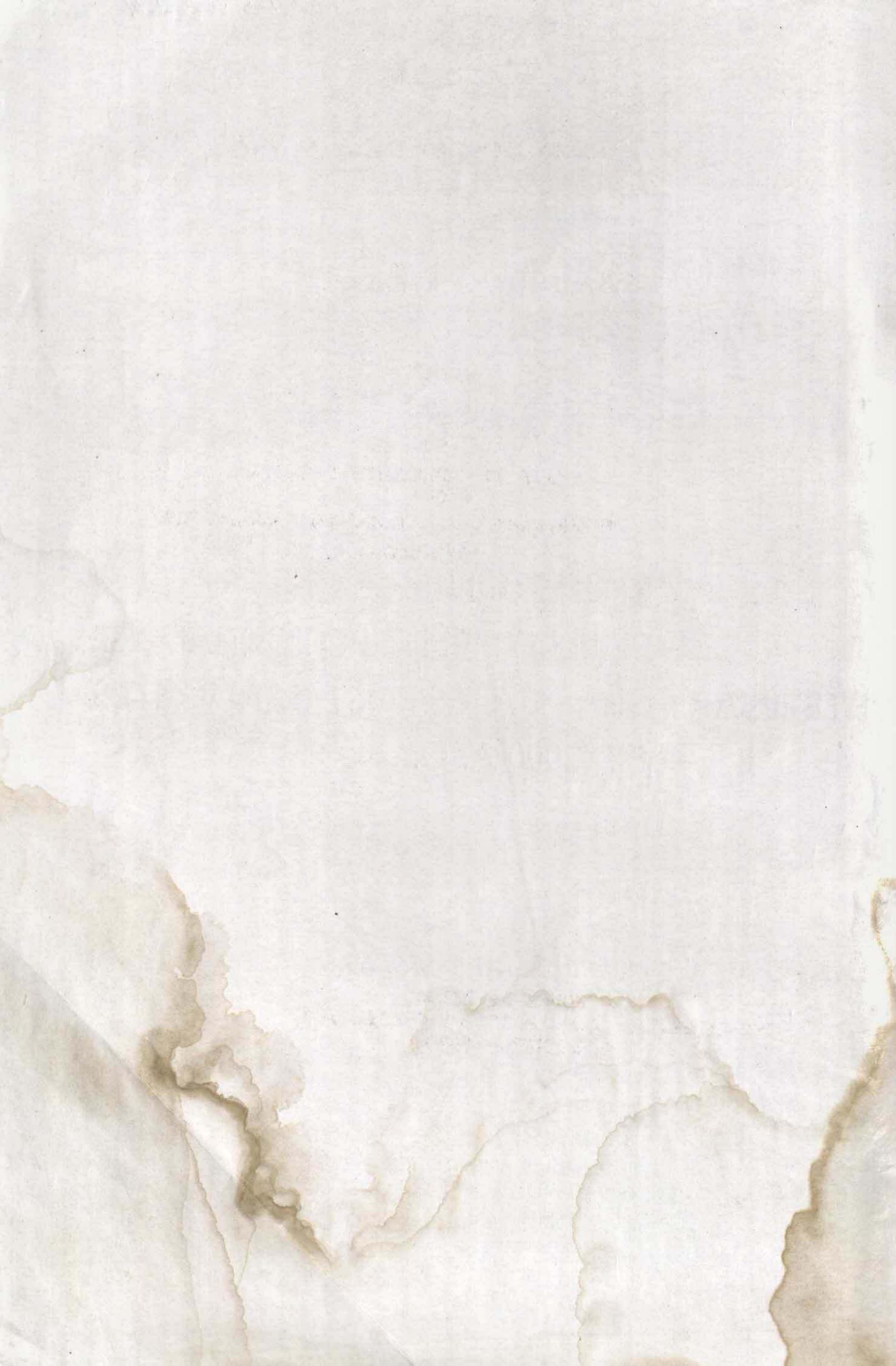
EMPLOYMENT POTENTIAL OF

VETERINARY GRADUATES/POST GRADUATES

BY 2000 A. D.

MANPOWER STUDY SERIES No. 65

DEPARTMENT OF ECONOMICS & STATISTICS TRIVANDRUM 1989



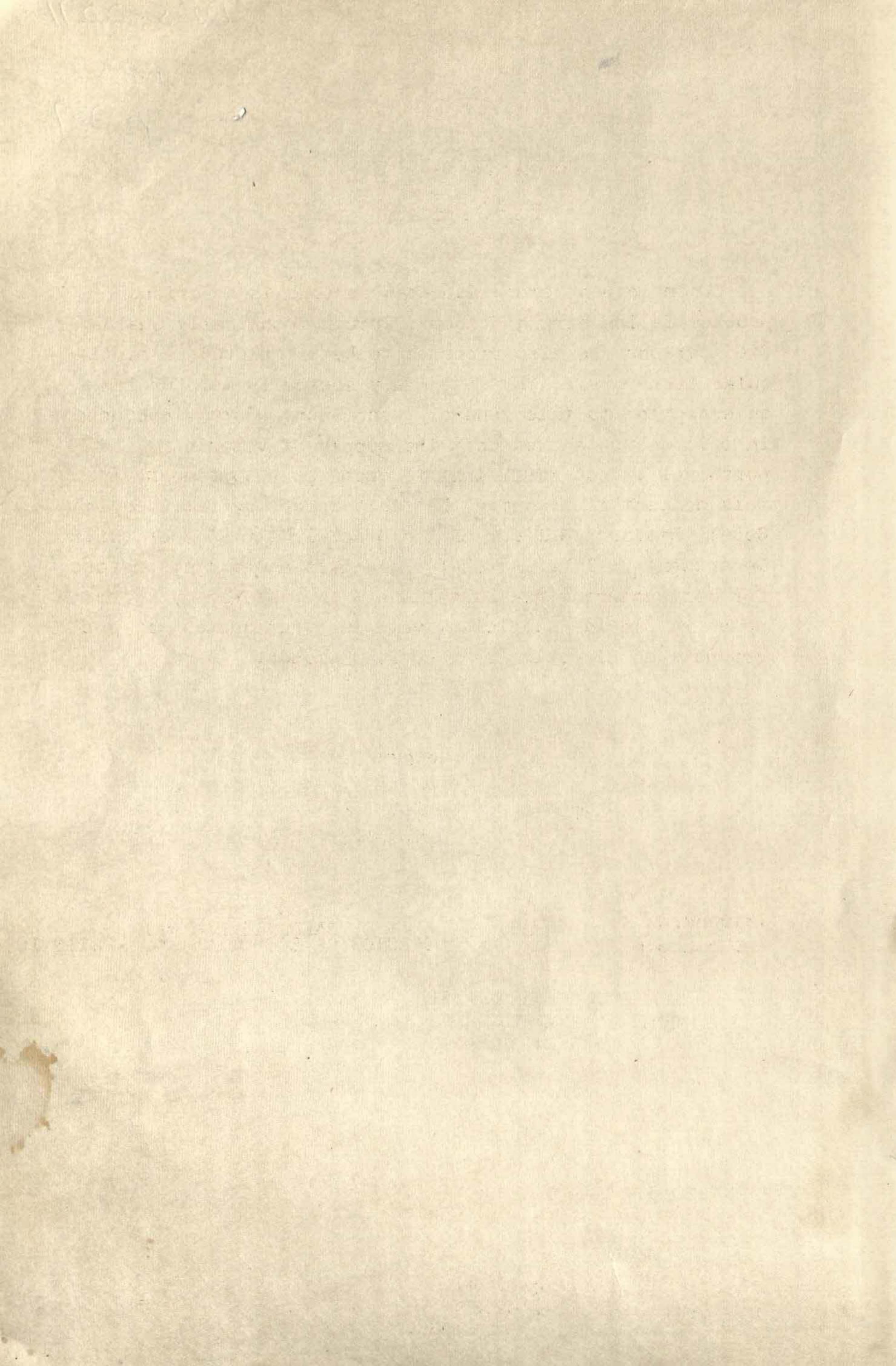
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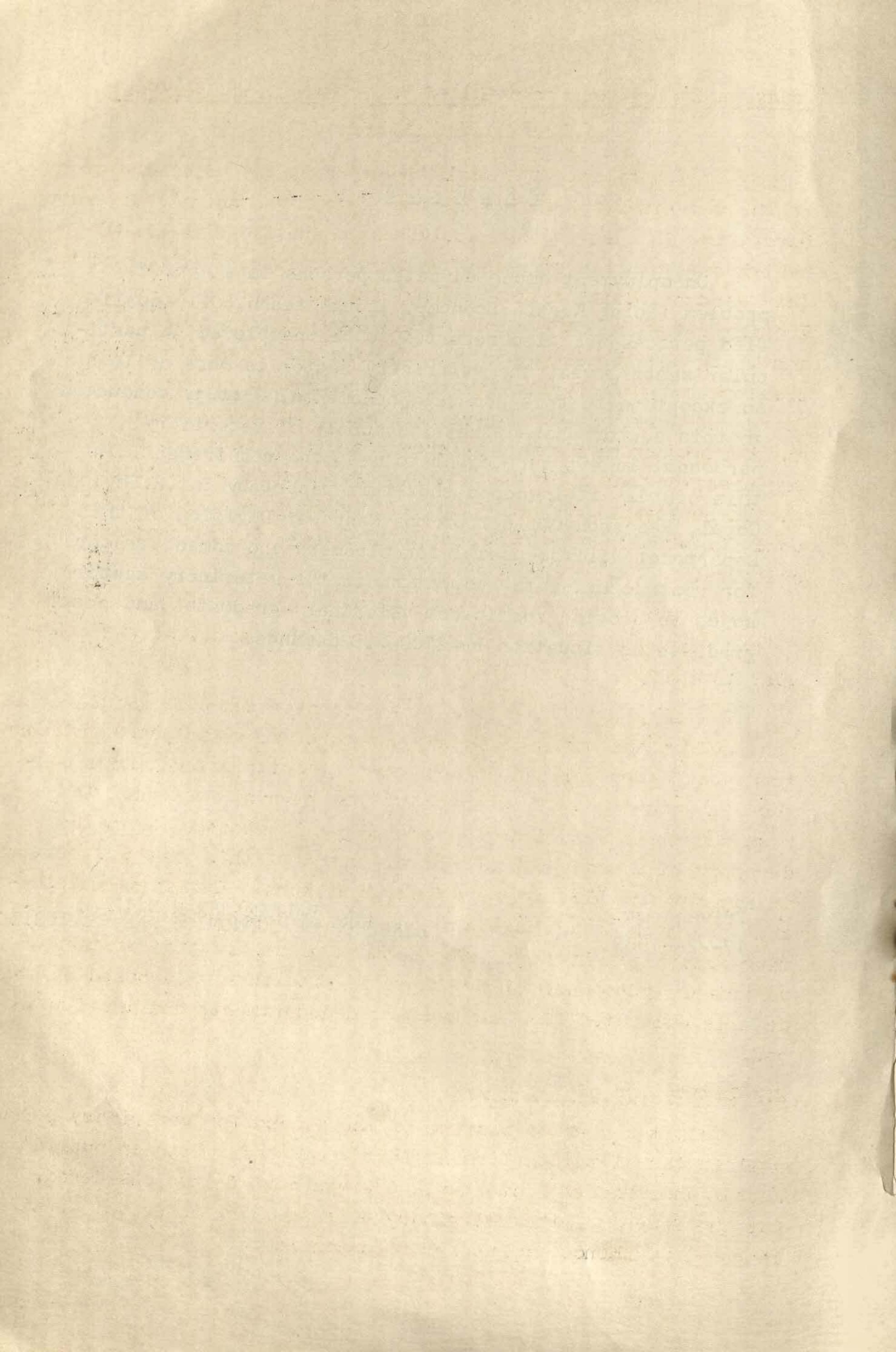


#### PREFACE

Unemployment among educated persons is a serious problem facing Kerala Economy. Though technically qualified persons are also reported to be unemployed, a particular sector, viz, the veterinary sector is more or less an exception to this general phenomenon. A study conducted in this sector showed that the supply of veterinary personnel is not sufficient to meet the requirement. In this context it is hoped that this report by Smt.R. Shylaja Gopal, Research Officer of the Manpower Division of this Department will be useful for planners and administrators for restructuring the education in the veterinary sector so as to provide sufficient veterinary graduates amd post graduate as situation by 2000 A.D demands.

Trivandrum 17--2--1989.

DIRECTOR OF ECONOMICS AND STATISTICS



# Study on Employment Potential of Veterinary Graduates/Post Craduates by 2000 A.D

The department of Animal Husbandry is the major employer of the veterinary personnel in the state. The Animal Husbandry Department is carrying out activities connected with animal health care and Livestock and Poultry development in the state. This responsibility includes provision of veterinary services and looking after animal health, cattle development, poultry development, pig development, goat development and other livestock development. The Kerala Livestock Development and Milk Marketing Board and Kerala Co-operative Milk Marketing Federation Limited, the Department of Dairy development are the other department and organisations which employ veterinary personnel. An assessment of the employment potential of veterinary personnel by 2000 A.D would be a worthwhile exercise in planning of this manpower category.

The main object of this study is to assess the requirement of veterinary personnel by 2000 A.D and the supply of the category in future.

The supply of the veterinary graduates and post graduates is assessed on the basis of actual out-turn and anticipated out-turn from veterinary college, Mannuthy. The anticipated annual out-turn is determined allowing twentyfour percent wastage. The requirement of veterinary personnel can be assessed from the development scheme proposed by the users of this manpower category, mainly the Animal Husbandry department, Kerala Livestock Development and Milk Marketing Board and Kerala Co-operative Milk Marketing Federation Limited. The pattern of utilisation of the veterinary personnel in the state is also furnished based on the details collected from the concerned departments and institutions.

#### 2. Limitation of the study

To get a correct picture of the demand for veterinary personnel in the state, the demand that would arise both in public sector and private sector undertakings have to be considered. But the demand of the veterinary personnel in the private sector is too low. Hence it has not been considered.

The details relating to the supply side are also estimated to the extent that it does not include the details of persons who get themselves qualified by their studies outside the state.

Veterinary personnel working outside the country and state have not been included in the report.

#### 3. Veterinary Education

In Kerala, the veterinary college at Mannuthy was started in 1955 with an intake capacity of 70 students for B.V.S.C. course. Later the college was affiliated to the Kerala Agricultural University.

The staff pattern of the Animal Husbandry and veterinary personnel in the Agricultural University (1987) was as shown below.

| Ta | hl                           | 0             | 9                       | 1         |
|----|------------------------------|---------------|-------------------------|-----------|
| 10 | N.T.                         | -             | 0                       |           |
| -  | STATE OF THE PERSON NAMED IN | Maria Service | THE OWNER OF THE OWNER, | St. See . |

| Name of post       | Number of sanctioned<br>Post | Number of post<br>filled up |
|--------------------|------------------------------|-----------------------------|
| Dean               | 1                            |                             |
| Director           | 5                            | 5                           |
| Professor          | 55                           | . 47                        |
| Asso. Professor    | 42                           | 20                          |
| Asst. Professor    | 68                           | 38                          |
| Jr.Asst. Professor | 50                           | 21                          |
|                    |                              |                             |
| Total              | 221                          | 131                         |

The university has notified for the recruitment of the personnel in the following category of posts to meet the additional requirement due to expansion of the university in the VIIth plan period.

Table: 2

| Name of post No. Notified |    |
|---------------------------|----|
| Director                  | 2  |
| Professor .               | 17 |
| Asso. Professor           | 18 |
| Asst. Professor           | 18 |
| Jr. Asst. Professor       | 18 |
| Total                     | 73 |

#### 4. Wastage in Veterinary Education in Graduate Level: -

The I.A.M.R has recently estimated wastage rates for B.V.SC and M.V.SC courses for the last decade. The wastage rate for B.V.SC works out to 20.6% and that for M.V.SC to be 10.3%.

The Manpower cell of the Ministry of Agriculture, Government of India has also calculated the wastage rates for B.V.SC and M.V.SC courses. These are based on the admissions and corresponding out-turn of the B.V.SC and M.V.SC for the last decade. The wastage rates are workedout to be 21.5% in B.V.SC and 10.5% in M.V.SC courses.

The wastage rate of veterinary graduates in the state is calculated based on the admission and corresponding out-turn. The estimate is made in the following table.

Table-3

Wastage rate of B.V.SC in the state

| Total intal period of 5 ending. |     | Total out-tural period of ending |     | Out-turn percentage of corres- ponding in-take | Estimated wastage |
|---------------------------------|-----|----------------------------------|-----|--|-------------------|
| 1                               | 2   | 3                                | 4   | 5  | . 6               |
| Year                            | No. | Year                             | No. | $\frac{\text{Col.4}}{\text{Col.2}} \times 100$ | 100-Col.5         |
| 1977                            | 255 | 1981                             | 202 | 79   | 21                |
| 1978                            | 276 | 1982                             | 215 | 78   | 22                |
| 1979                            | 284 | 1983                             | 209 | 74   | 26                |
| 1980                            | 299 | 1984                             | 228 | 76   | 24                |
| 1981                            | 338 | 1985                             | 254 | 75   | 25                |
| 1982                            | 351 | 1986                             | 260 | 74   | 26                |
| 1983                            | 359 | 1987                             | 280 | 78   | 22                |
| Average                         |     |                                  |     | 76   | 24                |

From the above table it is seen that the average wastage of students admitted during the period 1973 to 1984 is 24% which is nearly 3% above the estimate made by the I.A.M.R and the Ministry of Agriculture.

Table-4
Wast is rate of M.V.SC in the state

| a    | tal intake<br>period of<br>ding |     | Total out-t<br>a period of<br>ending |       | Out-turn<br>as percentage | Estimated wastage |
|------|---------------------------------|-----|--------------------------------------|-------|---------------------------|-------------------|
| 1    |                                 | 2   | 3                                    | 4     | 5                         | 6                 |
| Ye   | ar                              | No. | Year                                 | No.   | Col.4 x 100<br>Col.2      | 100-Col.5         |
| . 19 | 77                              | 91  | 1979                                 | 76    | 84                        | 16                |
| 19   | 78 1                            | 12  | 1980                                 | 101   | 90                        | 10                |
| 19   | 79 1                            | 15  | 1981                                 | 11-1  | 97                        | 3                 |
| 198  | 80 1                            | 12  | 1982                                 | 107   | 96                        | * 4               |
| 198  | 31 1                            | 16  | 1983                                 | 100   | 86                        | 14                |
| 198  | 32 1                            | 00  | 1984                                 | 90    | 90                        | 10                |
| 198  | 33                              | 77  | 1985                                 | 68    | 88                        | 12                |
|      | Average                         |     |                                      | * * * | 90                        | 10                |

Thus the wastage during the period 1973 to 1984 is 10% which is more or less the same as the estimate made by the I.A.M.R and the Ministry of Agriculture.

# 5. Stock and utilisation pattern of veterinary graduat and post graduates

As per the details collected from the concerned departments and institutions, the stock of veterinary graduates as on 1987 was found to be 972 and the post graduates numbered 244. If we add out-turn of veterinary graduates from the veterinary college, Mannuthy to the number of veterinarians in the services and allow 1% attrition for retirement etc. the stock since 1987 would be as shown below:

: 5: Table : 5

#### Stock of veterinary graduates

| Stock as on<br>31st March<br>of the year | Attrition loss (1% of col.2)   | Additions during the year | Stock at the end of the year (Col.2-Col.3 + Col.4)   |
|--|--|---------------------------|--|
| 2  | 3  | 4                         | 5  |
| 972                                      | 10   | 60                        | 1022   |
| 1022                                     | 10   | 87                        | 1099   |
| 1099                                     | 11   | 90                        | 1178   |
| 1178                                     | 12   | 84                        | 1250   |
| 1250                                     | 13   | 91                        | 1328   |
| 1328                                     | 13   | 91                        | 1406   |
| 1406                                     | 14   | 91                        | 1483   |
| 1483                                     | 15   | 91                        | 1559   |
| 1559                                     | 16   | 91                        | 1634   |
| 1634                                     | 16   | 91                        | 1709   |
| 1709                                     | 17   | 91                        | 1783   |
| 1783                                     | 18   | 91                        | 1856   |
| 1856                                     | 19   | 91                        | 1928 *   |
| 1928                                     | 19   | 91                        | 2000   |
|  | 31st March of the year  2  972 1022 1099 1178 1250 1328 1406 1483 1559 1634 1709 1783 1856 | 31st March of the year  2 | 31st March of the year       (1% of col.2)       during the year         2       3       4         972       10       60         1022       10       87         1099       11       90         1178       12       84         1250       13       91         1328       13       91         1406       14       91         1483       15       91         1559       16       91         1634       16       91         1709       17       91         1783       18       91         1856       19       91 |

The above analysis is on the assumption that since 1987, the intake of the veterinary graduates remains the same as 120 of which there shall be a wastage of 24 percent.

mTable 6
Stock of the veterinary post graduates personnel

| Year   |   | Attrition loss<br>(1% of Col.2) | Additions during the year               | Stock at the end of the year (Col.2-Col.3 + Col.4)   |
|--|---|---------------------------------|---|--|
| 1  | 2   | 3                               | 4                                       | 5  |
| 1987<br>1988<br>1989<br>1991<br>1993<br>1994<br>1995<br>1996<br>1998<br>1999<br>2000 | 244<br>249<br>260<br>270<br>280<br>290<br>310<br>320<br>330<br>340<br>350<br>359<br>368 | 223333333333444                 | 733333333333333333333333333333333333333 | 249<br>260<br>270<br>280<br>290<br>300<br>310<br>320<br>330<br>340<br>350<br>359<br>368<br>377 |

The out-turn is worked out on presumption that there shall be an intake of 15 personnel in the post graduate course since 1987 and a wastage of 10%.

#### 6. Utilisation pattern

The major source for employment of veterinary graduates and post graduates is employment under Public Service. In Kerala they are employed under state government departments such as department of Animal Husbandry. Veterinarians are also employed in corporations/boards such as Kerala Livestock development and Milk Marketing Board, Kerala Co-operative Milk Marketing Federation Limited, and Kerala Agricultural University. A few of them are working in banks. The following table shows the percentage distribution of veterinary personnel employed in the state.

Percentage distribution of veterinary personnel employed in Kerala as on 1987

|    | Department/<br>Organisation      |     | ary graduates. Percentage | Post   | rinary<br>-gradua-<br>tes  | Numb | - County - Control - Contr |
|----|----------------------------------|-----|---------------------------|--------|----------------------------|------|--|
|    |                                  |     |                           | Number | The company of the company |      | tage   |
|    | 1                                | 2   | 3                         | 4      | tage<br>5                  | 6    | 7  |
| 1. | Animal Husban-<br>dry Department | 884 | 90.95                     | 20     | 8,20                       | 904  | 74.34  |
| 2. | Boards/<br>Corporation           | 84  | 8.64                      | 2      | 0.82                       | 86   | 7.07   |
| 3. | Agricultural<br>University       |     |                           | 221    | 90.57                      | 221  | 18.17  |
| 4. | Banks                            | 4   | 0.41                      | 1      | 0.41                       | 5    | 0.42   |
|    | Total                            | 972 | 100.00                    | 244    | 100.00                     | 1216 | 100.00   |

The above table reveals that the Animal Husbandry Department is the major employer of the veterinarians in the state. Among the post graduates about 91% is employed under the Kerala Agricultural University. Utilisation of the veterinary personnel in various institutions is briefly discussed below:

### (i) Department of Animal Husbandry

The department of Animal Husbandry in the state is responsible for implementing schemes relating to animal welfare activities including livestock and the poultry production.

The Director of Animal Husbandry is the head of the department. He is assisted by technical officers such as Additional Directors, Joint Directors, Deputy Directors, and Assistant Directors at the Directorate. The district administration is rested with the fourteen Joint Directors. He has both the technical and administrate control over the various institutions like veterinary hospitals, dispensaries, policlinics, artificial insemination centres etc. in the district. The veterinary hospitals functioning at District Headquarters are considered as District veterinary hospitals. These hospitals are placed under the immediate control of senior veterinary officers. There are now 3 such hospitals in the state. To co-ordinate the animal health activities of the veterinary polyclines and veterinary hospitals on a referal basis and to make available clinical and other technical support in their routine activities, district veterinary centres are to be established at district headquarters in a phased programme,

Cattle development programmes in this state are aimed to achieve the per capita availability of Milk as recommended by the World Health Organisation.

Cattle development in the state is being implemented through the following media

- (i) Cross Breeding Schemes
- (ii) Intension Cattle development project
- (iii) Livestock farms
- (iv) Fodder development

The department has under its control seven Regional Poultry farms, two district poultry farms, one central hatchery two broiler farms, one duck farm, one turkey farm and two intensive poultry development blocks in operation.

Disease investigation and control programme

Main objectives of the disease investigation organisation are to co-ordinate the investigation activities in the various fields of animal health programmes, to study the epidemiology, incidence mortality and other factors relating to various diseases. Investigation work on diseases reported from time to time are also undertaken and control measures are chalked out.

The programme is carried out by the Chief Investigation Officer. Under him three investigation units, one each for poultry, cattle and T.B are functioning under the immediate control of each Disease Investigation Officer.

In addition to the three institutions for disease investigation programme, a veterinary and Biological institute is also functioning at Palode in charge of a Director assisted by a standardisation officer, a quality control officer, two Research Officers, 4 Research Assistants, 13 Veterinary surgeons and a chemist. This institution is doing postmortems and various diagnostic tests utilising specimens received both from the field veterinarians and also from the collections made by the technical officers of the disease investigation units.

The employment pattern of veterinary personnel (graduates& Post graduates) in the department of Animal Husbandry is given below.

Table 7

| Sl. | Name of the post    | Number |
|-----|---------------------|--------|
| 1   | 2                   | 3      |
| 1.  | Director            |        |
| 2.  | Additional Director | 5      |
| 3.  | Joint Director      | 24     |
| 4.  | Deputy Director     | 50     |
| 5.  | Assistant Director  | 252    |
| 6.  | Veterinary Surgeon  | 572    |
|     | Tota                | 904    |

#### (ii) Kerala Livestock Development & Milk Marketing Board Ltd.

The Kerala Livestock Development & Milk Marketing Board Ltd. a fully owned Government Company was formed in 1976 integrating the Department of Indo-Swiss Project Kerala, Milk Chilling plants, diaries and the bull station Dhoni of the Dairy Development department and L & P feed factory Malampuzha of the Animal Husbandry department. The feed factory, dairies and chilling plants were separated in 1983 and now the Board handles only developmental activities. The Board is responsible to implement the

cattle breeding programme of the state with the aim of creation of a new breed of cattle suitable for economic milk production under Kerala conditions and to develop fodder resources and supply the inputs and services required for the fodder development activities in the state.

Utilisation pattern of veterinary personnel in the Board is as shown below:

| Table 8 |  |
|---------|--|
|         |  |

| 07          |                                  | The state of the s |         |
|-------------|----------------------------------|--|---------|
| Sl.         | Designation of the post          | Minimum qua-   | Number  |
| 140.        |                                  | lification of  | of post |
|             |                                  | the post   |         |
| 1           | 2                                | 3  | 1.      |
| 1           |                                  |  |         |
| 1.          | Executive (General planning)     | B.V.SC   | 1       |
| 2.          | Progeny Testing Officer          | B.V.SC   | 1       |
| 3.          | Officer in charge                | B.V.SC   | 2       |
| 4.          | Livestock Development Officer    | B.V.SC   | 2       |
| 5.          | Co-ordinator (Vety).             | B.V.SC   | 1       |
| 6.          | Officer on special duty          | B.V.SC   | 1       |
| 7.          | Animal Husbandry Officer         | B.V.SC   |         |
| 8.          |                                  |  | 3       |
|             | Cattle Breeding Research Officer | M.V.SC   | 1       |
| 9.          | Cattle Breeding Officer          | B.V.SC   | 1       |
| 10.         | Superintendent Semen Bank        | B.V.SC   | 1       |
| 11.         | Assistant Manager (AH)           | B.V.SC   | 0       |
| A CHARLETTI |                                  | D. V. DC   |         |
|             |                                  | Totol  | 0.7     |
|             |                                  | Total  | 23      |

### (iii) Kerala Co-operative Milk Marketing Federation Ltd.

Kerala co-operative Milk Marketing Federation, an apex organisation of the Milk Producers of Kerala State, was formed in the year 1980 with a wide object of marketing milk produced by the poor farmers scattered in the rural areas of the state and implementation of the national programme of operation Flood II in Kerala.

The main objectives of Milk Marketing Federation are:
(a) To carry out the activities of procurement, processing and marketing of milk and milk products incorporating the necessary improvements and developments after studying the problems specially prevalent in this state with regard to dairying, under the organised sector eliminating the middlement.

- b) To provide veterinary service to milk producers and to advise, guide, assist and control the primary milk co-operative societies and member unions.
- c) To manufacture balanced cattle feed and supply it to milk producers of co-operative societies at the minimum costs as to reduce the cost of milk production.

The objectives of the Federation are implemented utilising the services of the following staff.

| Ta | bl              | е | 9                  |
|----|-----------------|---|--------------------|
| -  | AND DESCRIPTION |   | THE REAL PROPERTY. |

| Designation of the post    | Minimum qualification of the post | Number of post |
|----------------------------|-----------------------------------|----------------|
| 1                          | 2                                 | 3              |
| 1. Manager (MIS)           | B.V.SC and M.SC (Dairing)         | 1              |
| 2. Assistant Manager (P&I) | B.V.SC                            | 7              |
| 3. Veterinary Officers     | B.V.SC                            | 55             |
|                            | Total                             | 63             |

## 7. Demand for veterinary Graduates and Post-Graduates during the VIIth Plan Period

Demand for veterinarians may arise due to attrition losses by retirement, death etc. and due to the expansion programme of the departments and implementation of new schemes.

For the estimation of demand for specific period the programatic-cum-normatic approach is generally adopted. The coverage of the paln scheme and the recommended staff pattern will give the number of personnel required for different categories of posts. The demand in the organised sector like Government Departments, Boards, Banks, University etc. are collected through the agencies concerned. The demand for the veterinary graduates and post-graduates during the VII th Plan period is estimated as follows.

The department of Animal Husbandry is one of the major departments that utilises the services of veterimary personnel by and large. They have a plan to reorganise and establish one veterinary institution each for every local body. There are altegether 1048 local bodies in the State and consequently there will be 1048 institutions. Each such institution will have to be provided with a veterinary surgeon. The main object of such

a planning is to provide maximum services of veterinary personnel to the needy rural people.

Five of the above units will constitute a block. Each such block is under the immediate control of an Assistant Director. Over and above the local bodies and blocks there will be district veterinary centres which are under the immediate control of Joint Directors. It is also envisages for the creation of three Deputy Directors under each of these district veterinary centres with certain specified duties viz. District administration, animal production and veterinary services.

Based on the materials collected from the Animal Husbandry Department it is expected that they require the following veterinary personnel by 1990.

| . Table -            | 10   |
|----------------------|------|
| Name of the post .   | No.  |
| Director             | 1    |
| Additional Directors | 5    |
| Joint Directors      | 24   |
| Deputy Directors     | 70   |
| Assistant Directors  | 311  |
| Veterinary Surgeons  | 1112 |
| Total                | 1523 |

(ii) Another agency that is utilising the services of veterinary personnel is the Kerala Livestock Development and Milk Marketing Board. At present there are 23 veterinary personnel working in the institution of which 21 are B.V.SC. holders and the remaining 2 are M.V.SC. In addition to these they require 17 M.V.SC. and 29 B.V.SC. holders during the VII th plan period. Kerala Co-operative Milk Marketing Federation Ltd. and the two Regional Co-operative Milk Producers Union Ltd. functioning at Trivandrum and Ernakulam altogether require 96 veterinary personnel by 1990.

There are 4 veterinary graduates and one veterinary post graduate now working in the banking sector. In the absence of further demand from banks we can presume that the present staff will be sufficient for the VIIth plan period also.

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In addition to the present staff working in the Agricultural University 73 posts are also required by 1990 in view of the developmental programmes of the university. In other words the University requires a total number of 294 veterinary personnel by 1990.

Table 11
The Veterinary personnel required by 1990

| Sl.No      | Organisation                | Veterinarians | required |
|------------|-----------------------------|---------------|----------|
|            |                             | B.V.Sc        | M.V.Sc   |
| 1.         | Animal Husbandry Department | 1523          |          |
| 2.         | Other departments           | 146           | 19       |
| 3.         | Banks                       | 4             | 1        |
| 4.         | Agricultural University     |               | 294      |
|            |                             |               |          |
|            | Total                       | 1673          | 314      |
| The second |                             |               |          |

#### 8. Requirement of veterinary personnel by 2000 A.D

It is not so easy to estimate the Demand for veterinary personnel in the State by 2000 A.D. for want of sufficient information of veterinary personnel required by various departments and also due to lack of information relating to the schemes under the departments which provide the services of veterinary personnel. However an earnest attempt is made based on a previous study conducted on this subject during the period 1976-77 and the available statistics supplied by the departments of Animal Husbandry Kerala Livestock Development & Milk Marketing Board, Kerala Co-operative Milk Marketing Federation Ltd. Kerala Agricultural University and Banks.

During 1984 the requirement of B.V.SC and M.V.SC. was 1274 and 127 respectively where as the corresponding figures, relating to 1990 is 1673 and 314, Based on these the growth rate is 0.05 for B.V.SC and 0.03 for M.V.SC.

Adopting the above growth trend as basis a projected requirement of B.V.SC and M.V.SC as on 2000 A.D. has been worked out as follows.

Table 12
Estimated requirement of B.V.SC and M.V.SC by 2000 A.D.

| Year | B.V.SC | M.V.SC |
|------|--------|--------|
| 1990 | 1673   | 314    |
| 1991 | 1757   | 323    |
| 1992 | 1845   | 333    |
| 1993 | 1937   | 343    |
| 1994 | 2034   | 353    |
| 1995 | 2136   | 364    |
| 1996 | 2243   | 375    |
| 1997 | 2355   | 386    |
| 1998 | 2473   | 398    |
| 1999 | 2597   | 410    |
| 2000 | 2727   | 422    |

### 9. Supply of veterinary graduates and post graduates

The only institution imparting veterinary education in the State is the verinary college at Mannuthi in Trichur District. When the institution was satarted in 1955, the sanctioned intake was 70 students for B.V.SC. But the actual intake was found to be increased up to 80 till 1959. Further it was limited to 40. At present the sanctioned intake is 120. The post-graduate course was started in 1965. Though the number of seats for M.V.SC.is 20 the actual intake is found to be always less than the sanctioned strength. The actual intake and out turn of B.V.SC and M.V.SC is given in Appendix I.

In the estimation of out turn of B.V.SC on 24% wastage and for M.V.SC 10% wastage is attributed. One percent attrition of the total stock of every year is applied as there may be loss due to outmigration which is not studied. Based on these assumptions the estimated stock of B.V.SC by 1990 is 1250 and for M.V.SC it is 280. The estimated requirement according to programmes comes to 1673 for B.V.SC and 314 for M.V.SC. Thus there will be an shortage of 423 B.V.SC and 34 M.V.SC. The effective stock of B.V.SC by 2000 A.D will be 2000 against the total requirement 2727. The shortage of B.V.SC by 2000 will be 727. In the case of M.V.SC the stock by 2000 will be 377 against the total requirement 422. The storage of M.V.SC by 2000 will be 45.

APPENDIX I

INTAKE AND OUT-TURN OF B.V.SC AND M.V.SC

| Year | Gradua | Graduates |        | Post graduates |  |
|------|--------|-----------|--------|----------------|--|
|      | Intake | Outturn   | Intake | Outturn        |  |
| 1970 | 33     | 31        | 13     | 5              |  |
| 1971 | 39     | 36        | 6      | 7              |  |
| 1972 | 40     | 42        | 7      | 8              |  |
| 1973 | 40     | 42        | 13     | 9              |  |
| 1974 | 62     | 41        | 18     | 6              |  |
| 1975 | 56     | 36        | 13     | 7              |  |
| 1976 | 43     | 31        | 10     | 7              |  |
| 1977 | 54     | 27        | 37     | 11             |  |
| 1978 | 61     | 48        | 34     | 22             |  |
| 1979 | 70     | 37        | 21     | 29             |  |
| 1980 | 71     | 40        | 10     | 32             |  |
| 1981 | 82     | 50        | 14     | 17             |  |
| 982  | 67,    | 40        | 21     | 7              |  |
| 983  | 69     | 42        | 11     | 15             |  |
| 984  | 114    | 56        | 16     | 19             |  |
| 985  | 118    | 66        | 15     | 10             |  |
| 986  | 110    | 56        | 6      | 7              |  |
| 987  | 120    | 60        |        |                |  |

