

## DIPLOMA IN STATE VETERINARY MEDICINE

Please view the general documents to obtain copies of:

### The stages of enrolment information.

- B1:** Guidance Notes for candidates on general requirements.
- B3:** General Guidance Notes on preparation for a Dissertation.
- E1:** Application form E1 - for enrolment and initial approval of experience.
- H:** Role of Advisers to Certificate Candidates.

The following papers are attached:

- B2:** Specific requirements for the Diplomas.
- C:** Syllabus and Commentary for the Diplomas.
- D:** Reading List
- E:** Application forms E1A, E1B, E2
  - E1A** - for specific details of practice/centre
  - E1B** - for proposed subject of the dissertation or published papers
  - E2** - for final approval of experience and for permission to submit an entry to the examination
- F:** List of Advisers.

April 2007

**THE ROYAL COLLEGE OF VETERINARY SURGEONS  
SPECIALISATION AND FURTHER EDUCATION**

**THE DIPLOMA IN STATE VETERINARY MEDICINE**

**SPECIFIC GUIDANCE NOTES FOR CANDIDATES**

[These notes must be read in conjunction with the B1 General Guidance Notes to Candidates]

**MEMBERSHIP OF THE ROYAL COLLEGE OF VETERINARY SURGEONS**

1. It is a requirement of the Veterinary Public Health (Meat Hygiene) and State Veterinary Medicine Board that ALL Candidates entering for the Diploma are Members of the Royal College of Veterinary Surgeons (MsRCVS).

**SPECIFIC EXPERIENCE**

2. Please note that candidates are required to submit their original applications plus **six** photocopies of good quality—i.e. a total of **7 collated sets**.

**Approved Centre Route**

3. There is no approved centre route for the Diploma in State Veterinary Medicine.

**Approved Practice Route**

4. Candidates following the approved practice route will not be permitted to enter for the examination until they have been Members of the College or held an approved veterinary qualification for **at least five years** and are required to offer experience in the subject over either (a) **at least five years including 200 days** spent at an approved centre, OR (b) **at least six years** if gaining experience solely at an approved practice.
5. The Board has discretion to increase the requirements for experience for any candidate above the minimum specified if it is considered to benefit the candidate.
6. There is no separate application form other than the candidate applications forms included with this Information Pack. Practices are approved for each individual candidate.
7. The Board has discretion to increase the requirements for experience for any candidate above the minimum specified if it is considered to benefit the candidate.
8. Experience accepted for the Certificate will count towards the experience required for the Diploma, at the discretion of the Board, whether the candidate is at an approved centre or an approved practice.

## FINAL APPROVAL OF EXPERIENCE

9. Either when applying for initial approval of experience or final approval of experience applicants must submit application for E1B for approval of the proposed subject for submitted work.

## THE EXAMINATION

10. The examination consists of three Sections:
  - (a) A Dissertation OR 2 Published Papers
  - (b) TWO x 3 hour written papers, and
  - (c) a clinical, oral and practical examination.

## SUBMITTED WORK FOR EXAMINATION

11. For section (a) of the examination candidates must submit either a dissertation or two published papers.

### Dissertation

12. Application on Form E1B must be made for approval of the proposed subject of the dissertation (see paragraph 9). No exemption is permitted.
13. It is obviously of advantage to the candidate to have as much time as possible to prepare their Dissertation, after having obtained approval of the title. Candidates must therefore plan their preparation carefully.
14. It is strongly recommended that a candidate should seek advice from their adviser before applying to the Board for approval.
15. Candidates may **not** use all or part of the work prepared and submitted for another postgraduate qualification including Diploma of Fellowship, as all or part of their dissertation for an RCVS Diploma.
16. The dissertation should be based on original material and data and may include contributions to the development of policy whether or not it is implemented by Government.
17. **Three copies of the dissertation are required.** Dissertations need not be bound but should be submitted in a cover in a secure manner. Candidates should loosely insert their completed declaration (a template of which can be found in the B1 Guidance Notes) at the front of the dissertation.
18. The dissertation must be of a high standard, with good literacy and scientific presentation. Candidates may submit laser colour photocopies of photographs in their dissertation, provided that they are of a sufficiently high quality.

19. Candidates are asked to submit an electronic version of their submitted work together with the hard copies. This will be retained at RCVS unless requested by the examiners for purposes such as checking the word count. The electronic version should be Microsoft Office 2000 or XP compatible and should be submitted on CD. Please ensure that the disks are easily identifiable by placing them in an envelope with your name, and 'Electronic version of submitted work for Diploma in State Veterinary Medicine marked clearly on the front.

### **Word Count**

20. A word count must be shown on the front cover of the Dissertation. The dissertation should be **between 5,000 and 10,000 words** in length (excluding references and appendices) and should **not exceed 10,000 words**.

### **Two Published Papers**

21. Candidates must apply for approval, on Form E1B, of the proposed subject of the Published Papers (see paragraph 9). No exemption is permitted.
22. **Two published papers** are required. Each published paper should be based on original work and the topic must be related to the syllabus. A review paper would not be acceptable.
23. Candidates are advised that work which has already been submitted for another postgraduate qualification cannot be used towards an RCVS Diploma, including the Diploma of Fellowship by Thesis. However, publications in peer reviewed journals **arising from** any postgraduate degree, for example, a PhD or Masters thesis, could be used towards a subsequent Diploma if publications of this type form part of the Diploma requirements and are appropriate to the discipline – this decision to be made by the relevant Subject Board.
24. **Three copies of the papers are required.** The papers should have a common or linked theme and be presented bound in a secure manner, with both introductory and concluding chapters. The candidate may elect to include additional data related to but not included in the papers. Only papers published in a refereed journal by the time of submission may be used. Papers, which have been accepted for publication, will also be acceptable, but a letter from the Editor of the refereed journal, confirming final acceptance, will be required as evidence of acceptance. Short communications are not acceptable.
25. The following statement should be included at the front of each copy of the published papers.

*Published papers submitted in part fulfilment of the requirements for the RCVS Diploma in.....by (name of candidate).*

*Acknowledgements are due to: name.....for (description of assistance given).*

## Grading Scheme

26. The submitted work will be graded "Good Pass", "Pass", or "Fail".
- **Good Pass**—(60% or over)—the work will be lodged in the RCVS Library as a suitable example for future candidates.
  - **Pass (defined as 50%)**—the work is adequate to enable the candidate to proceed to the remaining sections of the examination, but the submitted work may need to be revised by the date of the clinical, oral and practical for lodging in the Library if the candidate is successful in the examination as a whole.
  - **Fail (below 50%)**—the work is not adequate to enable a candidate to proceed to the remaining sections of the examination for the year in question.

## WRITTEN EXAMINATION

27. Candidates are warned that answers should be given specifically and that illegible handwriting may result in examiners being unable to award marks for information which candidates intended to convey. In addition, the Examiners will take into consideration spelling and whether or not the question has been answered in the form requested.

### Format

28. This Section consists of 2 x three-hour written papers. Questions will be set from all sections of the syllabus.

### PAPER 1

- Section A:** Candidates will be required to answer nine short answer compulsory questions.
- Section B:** Candidates will be required to answer:
- i) One compulsory essay question set from section 5 of the syllabus with a choice within the question; AND
  - ii) One essay question from a choice of three.

### PAPER 2

- Section A:** Candidates will be required to answer nine short answer compulsory questions.
- Section B:** Candidates will be required to answer two essay questions from a choice of four.

## **Marks Scheme**

**Paper I** will be marked out of 50 marks

**Paper II** will be marked out of 50 marks

Total Mark for this Section (b) = 100 marks

## **CLINICAL, ORAL AND PRACTICAL EXAMINATION**

### **Format**

29. The oral examination will commence with a discussion aimed at clarifying any points from the written examination or submitted work which the examiners wish to explore further in order to ascertain the understanding of the candidate.
30. The candidate will be given every opportunity to correct factual errors made in the submitted work or the written exam.
31. There will then follow a period of open questioning from each of the examiners. The questions will be designed to explore the candidate's practical problem solving skills and will be based upon common situations, which an OVS may be expected to deal with in the course of his/her duties. Practical props such as microbiological reports, thermographs, and audit reports will be used.
32. The candidate will then be taken for a walk through part of a livestock premises and asked to describe and comment.

### **Marks Scheme**

33. Candidates will be given an overall mark for the clinical/oral/practical out of 100.

TOTAL Mark for this Section (c) = 100 marks

### **ADVISERS**

34. Candidates should consult the list of contact names found in the information pack with a view to then being recommended an adviser. Alternatively, candidates should consult the RCVS Register of Members for a suitably willing and qualified individual (someone holding a Certificate/ Diploma or equivalent) who is familiar with the RCVS Certificate or Diploma examination system and clinically active. An adviser should be found prior to enrolment.
35. It is stressed that candidates should keep in touch with their advisers throughout their preparations for the examination. Candidates who seek guidance from advisers benefit significantly in their preparation for and performance in the examination. It is the responsibility of the candidate to take the initiative in this regard.

## **ATTENDANCE AT SHORT COURSES**

36. The Board wishes to emphasise to candidates the benefits gained in attending appropriate courses and any other events, which are relevant to state veterinary medicine and would be advantageous to the candidate's studies.

## **ABBREVIATION FOR QUALIFICATION**

37. Successful candidates for the Diploma in State Veterinary Medicine are permitted to use the abbreviation "DSVM" after their names in the RCVS Register of Members, and on practice plates and stationery, etc.

Originated December 1996

Revised Feb 97, Sept97, Nov 97, Jan 02, Jan 03

**THE ROYAL COLLEGE OF VETERINARY SURGEONS  
SPECIALISATION AND FURTHER EDUCATION COMMITTEE**

**DIPLOMA IN STATE VETERINARY MEDICINE**

**SYLLABUS**

**Commentary**

The Syllabus is presented as a guide to the candidate, which sets out the areas of study on which the Diploma examinations will be based. Although detailed it should not be considered exhaustive. Diploma candidates are advised to read the Certificate syllabus in conjunction with the Diploma syllabus and will be expected to demonstrate that they have the breadth and depth of knowledge over and above the Certificate syllabus to meet the demands of their professional role.

At the Diploma level candidates will be expected to have a thorough working knowledge of the principles and practice of State Veterinary Medicine; the control and prevention of notifiable disease, the measures taken by the UK State Veterinary Services to protect public health and the welfare of farm animals, on farms, at markets, in transit and, as far as possible, during export. Candidates will also be expected to have a thorough working knowledge of the other areas covered in sections 2(d), 3, 4, 5, 6, 7(a), 7(c), 8, 9, 10, 11(a), 13(b), and 14.

In addition, candidates will be expected to have no more than a general understanding of sections 1, 2(a)–(c), 7(b), 11(b), 12, and 13(a).

Candidates are also expected to have a general understanding of the importance of State Veterinary Medicine in an international context and in the facilitation of trade in animals and animal products and to have a thorough working knowledge of current legislation in these areas.

**Syllabus**

1. **Role and responsibilities of a Government Veterinary Service.**
  - (a) The organisation of the Government Veterinary Service in the UK region in which the candidate works. The way in which animal health, animal welfare and public protection policies are formulated. How policies are implemented through the process of consultation and legislation. How policies are funded through public expenditure and the broad mechanisms of public expenditure control. The concept of value for money for the taxpayer in the implementation of policies.
  - (b) The duties and responsibilities of a Civil Servant or agent of the Minister. The need to implement policies impartially, fairly, and without bias. The ethical responsibilities of a Government veterinarian arising from the duties of a veterinary surgeon set out in the guide to professional conduct issued by the Royal College of Veterinary Surgeons.



## 2. Machinery of Government

### (a) Europe

European institutions and the decision making process. The basic fundamentals of European law. The Common Agricultural Policy theory and practice. The committee structure in Brussels including the role of the Standing Committee on the Food Chain and Animal Health and the European Food Safety Authority (EFSA). EU mechanisms for funding Animal Health and Animal Welfare programmes in member states.

### (b) Central Government

The structure, composition, and function of Parliament; the House of Lords; the House of Commons and the legislative process. The role of standing committees and select committees. The executive work of central Government, the Civil Service, and other executive bodies. Relationships between the Agriculture Departments and other Government Departments especially the Food Standards Agency, the Department of Health and devolved administrations. The role of cross-Government committees e.g. United Kingdom Zoonoses Group and the Surveillance Group on Diseases and Infections in Animal. The role of scientific advisory committees. The Animal Health and Welfare Strategy and the Veterinary Surveillance Strategy.

### (c) Local Government

The structure and functions of local Government and its role in the implementation of animal health, animal welfare, and public protection legislation. The broad legislative framework for animal health, animal welfare, and public protection legislation. The organisation of Public Health Authorities.

### (d) Legislation

The candidate should have a general understanding of primary and subordinate legislation in the fields of animal health, animal welfare, and public protection.

## 3. Non-statutory bodies

The structure, function, aims, objectives and principal publications of the World Health Organisation (WHO), Food and Agriculture Organisation (FAO) and Office International des Epizooties (OIE) in animal health, animal welfare and public protection, The Codex Alimentarius (FAO/WHO Food Standards).

The principal animal welfare groups, representative organisations for example, National Farmers Union (NFU) and other principal pressure groups with an understanding of how they exert pressure on Government by direct consultation with Ministers and Civil Servants, lobbying Parliament and general publicity campaigns.

#### 4. **Agriculture and Food Industry.**

The importance of agriculture to the National economy, an over view of the Common Agricultural Policy with respect to livestock, the principle systems of animal husbandry for the major farm livestock species.

The importance of export trade to the National economy.

#### 5. **Principles of statutory disease control**

- (a) The rationale behind the statutory control of certain diseases (cf the AHWS—see section 2b), including:
  - i) The need for State involvement to control these diseases.
  - ii) The risks these diseases pose for public health, international trade and animal health.
  - iii) The assurances required by customer countries.
  - iv) The maintenance of a trained work—force for epizootic emergencies.
  
- (b) The necessary elements of a statutory disease control programme including:
  - i) Understanding the epidemiology of the disease and applying this knowledge to any control measures.
  - ii) Formulation of a control policy e.g. preventing entry of the disease, evaluating eradication/slaughter—out against control/vaccination, procedure for dealing with infected animals, herds or areas etc.
  - iii) Establishing a cost—beneficial surveillance programme using optimum diagnostic techniques.
  - iv) Providing an adequate administrative framework. Promulgating the necessary legislation.

Candidates are expected to apply these principles to each of the notifiable diseases and to be able to argue the merits of including them under legislative control.

#### 6. **Notifiable diseases of animals**

UK notifiable and reportable diseases; their distribution, pathogenesis, epidemiology and diagnosis of the notifiable diseases.

UK/EU legislation relating to notifiable diseases.

Existing control programmes for enzootic, and preventive measures for epizootic, notifiable diseases, and their strengths and shortcomings.

Economic and political implications of the diseases, their control and prevention.

## 7. **Veterinary public health**

### (a) **Zoonoses**

- i) Diagnosis and control of zoonotic diseases; notifiable zoonoses. The Zoonoses Directive and Regulation The Zoonoses Orders (in the UK) and a thorough working knowledge of the epidemiology, pathogenesis and control of those zoonotic organisms controlled under the Zoonoses Orders.
- ii) Sampling techniques for on farm sampling of livestock, poultry and their environment for salmonellosis.
- iii) Controls in force regarding salmonella infections in poultry, feeding stuffs including raw materials, rendering plants and feed mills.

### (b) **Meat hygiene**

- i) EU and UK legislation (including the 2007 EU hygiene package) relating to fresh meat, poultry, products, preparations and game.
- ii) Structure and role of the Meat Inspection Services in the UK.
- iii) Differences in legislation between countries of the UK.
- iv) Role of the Official Veterinarian within a meat plant.
- v) Role of auxiliaries and Plant Inspection Assistants within a meat inspection team.
- vi) Principles of humane slaughter.
- vii) Ante- and post-mortem inspection procedures in the food species.
- viii) Principles of hygienic dressing and operation.
- ix) Auditing of hygiene through the application of Hazard and Critical Control Point (HACCP) principles.
- x) Principles of the certification of meat.

### (c) **Food safety and incident control**

- i) Enforcement of plant and food standards under the Food Safety Act 1990/the Food Safety
- ii) (Northern Ireland) Order 1991.
- iii) Enforcement of "own checks" as required by the meat products and preparations directives.
- iv) Food complaints procedures agreed by local authority representative organisations.

## 8. **Veterinary Medicines**

### (a) **Medicines**

- i) Role of the EU and the European Medicines Agency in veterinary medicine licensing & control
- ii) Role of Veterinary Medicines Directorate (VMD) in UK
- iii) Role of the Medicines Commission
- iv) Procedures for the approval of veterinary medicines
- v) Importation procedures
- vi) Packaging & labelling requirements. Adverse reaction reporting
- vii) Requirements regarding possession, distribution, supply, & records; the codes of practice for prescribing and dispensing medicines.
- viii) Inspection of veterinary practitioners' dispensing records by State Veterinary Service (SVS)
- ix) Legislation

(b) **Residues**

- i) Role of the EU and the defining of the *maximum residue limits* (MRLs)
- ii) Roles of VMD, Meat Hygiene Service (MHS), & SVS in national surveillance residues monitoring
- iii) Sampling procedures
- iv) Measures for the prevention of illegal use of hormones and unlicensed substances and authorised veterinary medicines above the MRL
- v) Legislation

9. **Import and Export Control of Animals and Animal Products**

- (a) Rationale for import/export controls. The role of OIE in imports and exports and the International Animal Health Code.
- (b) System of movement controls of animals and animal products into & within the EU; export of live animals to Third countries.
- (c) Legislation—EU & UK.
- (d) Export procedures within Animal Health Offices for live animals, semen, and embryos—issue and type of export certificates, registration of export certificates, Animal Movement computerised network (ANIMO) messages, journey plan, notes for guidance, official disease clearance, certification checks & system auditing, supervised loadings, Convention on International Trade in Endangered Species (CITES) awareness, registration of holdings & dealers, multiple consignments, approval of institutes/centres under the “Balai” Directive, portal surveillance.
- (e) Responsibility of Local Veterinary Inspectors (LVIs)—12 principles of certification—completion of certificates and schedules, validity of export certificates, re—certification of delayed consignments, security of certificates, support documents, owner’s declarations.
- (f) Export procedures within Animal Health Offices for meat and other animal products —intra— community trade, additional certification requirements, exports to Third countries, issue of certificates in regular use, internal movement, disclaimers, security in transit.
- (g) Import controls for live animals and animal products — post importation procedures for intra— community trade, legislation, ANIMO risk assessment, operation and control of Border Inspection Posts, illegal imports and rejected consignments.

10. **General Disease Control Measures**

- (a) Principles & legislation of general disease control—animal identification and records systems in use in the UK, movement control, registration of herds & holdings, breeding & movement records, movement controls for pigs—cattle passports—registration of dealers waste food controls on farm, at ports, & airports — controls on disposal and handling of animal by—products — market controls — transit controls.
- (b) Principles of cleansing and disinfection — legislation — approval of disinfectants.

## 11. Jurisprudence

- (a) The importance of gathering and storing of evidence e.g. video, photographic, and samples.  
The preparation of a witness statement.  
The role of the witness of fact and the role of the expert witness.  
The role of the relevant enforcement authorities for the UK eg. Police, Local Authority, Defra/SEERAD/WAG/DARD.
- (b) Police and Criminal Evidence Act as it applies to the giving of evidence and equivalent legislation in NI and Scotland.  
Court procedures in all Courts.

## 12. Artificial breeding

- (a) Historical rationale for control of artificial breeding.
- (b) Deregulated approach to control of artificial breeding.
- (c) Legislation and control in genetic materials intended for EU trade (licensing and inspection procedures). (Refer also to unit on imports and exports.)
- (d) Legislation and control of domestic (within UK) trade in genetic materials (licensing and inspection procedures).
- (e) Variation between the domestic species in the control of the following aspects of artificial breeding:
- (f) Semen: collection, processing, storage, distribution, transport, sale, provision of commercial insemination service, 'DIY' (owner) insemination.
- (g) Ova / embryos: Collection, production, processing, storage, distribution, transport, sale, transportation. Embryo Transfer Code of Practice and Regulations.

## 13. Voluntary Herd/Flock Health Programmes

- (a) Rationale for voluntary herd/flock health programmes and assurance schemes — principles upon which they operate — recognition within the EU — health scheme programmes currently in operation in UK.
- (b) The candidate will be required to have a thorough working knowledge of the above programmes where there is direct State Veterinary Service involvement.

## 14. Animal Welfare

- (a) Principles of animal welfare including the codes of recommendation for the welfare of cattle, sheep, goats, pigs, domestic fowls and turkeys.
- (b) The rationale for State involvement in the protection of animals. EU and UK legislation.
- (c) Animal welfare problems on farms, at markets, in transit and at abattoirs; investigation, reporting, advising animal owners and / or preparation for prosecution.
- (d) Roles of private and state veterinary surgeons, police, voluntary animal welfare organisations and others in the implementation and enforcement of animal welfare legislation.

- (e) Role of the Farm Animal Welfare Council.
- (f) Licensing and inspection procedures for animal boarding and breeding establishments, riding establishments, pet shops and zoos.
- (g) Dangerous Wild Animals Act.

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THE ROYAL COLLEGE OF VETERINARY SURGEONS  
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State Veterinary Medicine Board

READING LIST

*Candidates should note that the reading list for the Diploma in State Veterinary Medicine was frozen in 2002 and will eventually be withdrawn.*

*Candidates are expected to research the literature for themselves and are recommended to make use of the RCVS Library and Information Service for this purpose (<http://www.rcvslibrary.org.uk/>, e-mail—[library@rcvs.org.uk](mailto:library@rcvs.org.uk) or telephone 020 7222 2021). Candidates should also seek advice on suitable reading matter from their advisers.*

The reading list below has been compiled to aid candidates in their preparation for the examinations and to attempt to delineate the depth of knowledge required. The references marked with a \*C are considered essential reading for the Certificate examination and references marked with \*D are considered essential reading for the diploma examination.

**ROLE AND RESPONSIBILITIES OF A GOVERNMENT VETERINARY SERVICE**

\*C DANI The Veterinary Service in Northern Ireland 1993, ISBN 1 85527 106 0  
{Including Inserts}

\*C DANI Veterinary Service Code of Practice

\*C MAFF Animal Health: The Report of the Chief Veterinary Officer 1996, ISBN 0112430309

\*C MAFF State Veterinary Service: Service Standards for the Veterinary Field & Investigation Services. Including the Code of Practice on Enforcement 1994, PB 1631

DARDNI Veterinary Service Website: <http://www.dardni.gov.uk/>

DEFRA Website: <http://www.defra.gov.uk/>

**MACHINERY OF GOVERNMENT**

\*D Archer C, Butler F European Union: Structure and Process 2 Rev Edition, 1996  
ISBN 1855673045

\*D Centre Office of Information Central Government of Britain 1984, ISBN 0117012610, HMSO

\*D Central Office of Information Local Government 1996, ISBN 0117020370

\*D Great Britain The British System of Government 1996, ISBN 0117020427,  
HMSO

Great Britain The Central Government of Britain 1980, ISBN 01170100022, HMSO  
Britain 1999: The Official Yearbook of the United Kingdom, 1988, ISBN  
0116210370, TSO.

Dickson, Brice The Legal System of Northern Ireland 1993, ISBN 0853894744, SLS  
Publications (NI)

Northern Ireland (Aspects of Britain series) 1995, ISBN 0117020095, HMSO

Northern Ireland Office Website: [www.nio.gov.uk](http://www.nio.gov.uk)

The Northern Ireland Act 1998 (resource pack) Personnel Development Branch,  
Department of Agriculture for Northern Ireland, Room 1007, Dundonald House,  
Belfast BT4 3SB.

Future Structures (resource pack) Personnel Development Branch, Department of  
Agriculture for Northern Ireland, Room 1007, Dundonald House, Belfast BT4 35B.

\*D Lintner V Common Agricultural Policy 1989, ISBN 1853770280

Mosley R K Westminster Workshop: A Students Guide to British Government 1985,  
ISBN 0080318355, Pergamin

\*D Raworth P The Legislative Process in the European Community 1993, ISBN  
9065446907, Kluwer Law and Taxation Publishers

Theakston K Civil Service Since 1945 1995, ISBN 0631188258, Blackwell

## **NON-STATUTORY BODIES**

\*D Baggot, B Pressure Groups Today 1995, ISBN 0719035783, Manchester  
University Press

Great Britain Pressure Groups 1994, ISBN 01 1701849X, HMSO

Jordan A G, Richardson J J Government and Pressure Groups in Britain 1987,  
ISBN0198761678

\*C Office International des Epizooties OIE: Brief Overview 1996

## **AGRICULTURE AND FOOD INDUSTRY**

\*D Lintner V Common Agricultural Policy 1989, ISBN 1853770280

Rogers S J, Davey B H Common Agricultural Policy and Britain 1973, ISBN  
0347010121, Saxon House

## **PRINCIPLES OF STATUTORY DISEASE CONTROL**

\*D Brander G C, Ellis P R The Control of Disease Series: Animal and Human Health  
1977, ISBN 0702007343, Bailliere Tindall



\*D Hamann B P Disease: Identification. Prevention and Control 1994, ISBN 0801663644

## NOTIFIABLE DISEASES OF ANIMALS

Articles found in the State Veterinary Journal may be useful for this section.

Animal Diseases Exotic to Ireland 1992, ISBN 0952021803, Irish Veterinary Association, 53 Lansdowne Road, Ballsbridge, Dublin 4.

Andrews, A H (Edinburgh EH} Bovine Medicine: Diseases and Husbandry of Cattle 1991, ISBN 0632030399, Blackwell Science

Blood D C, Brightling P Diseases of Cattle: A Manual of Diagnosis 1990, ISBN 0702015091, Bailliere Tindall

Blowey R, Weaver AD A Colour Atlas of Diseases and Disorders in Cattle 1990, ISBN 0723415978, Mosby-Wolfe

Brightling A, Sheep Diseases 1988, ISBN 0909605521, Inkata Press

\*C Department of Agriculture for Northern Ireland, A Guide to Epizootic Diseases. 1994, ISBN 18552271818

\*C FAO, OIE, WHO, Animal Health Yearbook , 1994, ISBN 9250036930

Geering, W, Exotic Diseases of Animals, 1995 Australian Government Press

Hill J, Sainsbury D, The Health of Pigs .1995 ISBN0582061008, Longman Group

Hungerford T A G, Diseases of Livestock (9th edition}, 1990, ISBN 0071007474, Blackwell Science

\*C Jordan F T W, Poultry Diseases ,{4th edition} 1996, ISBN 0702019127, W B Saunders

State Veterinary Journal Special Issue, Notifiable Diseases (Volume 5, No. 3}, October 1995

Linklater K A, Smith M C, A Colour Atlas of Diseases and Disorders of the Sheep and Goat 1993, ISBN 0723417083, Mosby-Wolfe

Martin W B, Aitken (eds}, Diseases of Sheep { 2nd edition} 1991, ISBN0632029579, Blackwell Science

\*C Office International des Epizooties, International Animal Health Code: Mammals. Birds and Bees {6th edition} 1992, ISBN 9290443154, OIE

\*C Office International des Epizooties, International Animal Health Code: Mammals. Birds and Bees 1993, 1994 and 1995 up-dates, 1995, ISBN 9290443782, OIE

\*C Office International des Epizooties, World Animal Health {2 Vols} 1994, ISBN 9290443 88X

\*C Radostits O M, Blood D C, Gay C C, Veterinary Medicine (8th edition) 1994, ISBN 07020 1592X, Bailliere Tindall

Randall C J, A Colour Atlas of Diseases and Disorders of the Domestic Fowl And Turkey (2nd edition) 1990, ISBN 07234162812, Mosby-Wolfe

Rebhun W C, Diseases of Dairy Cattle 1995, ISBN 0683071939, Williams and Williams

Sainsbury D, Poultry Health and Management (3rd edition) 1992, ISBN 0632033258, Blackwell Science

Smith B, Taylor D J A Colour Atlas of Diseases of the Pig 1989, ISBN 07234099X, Wolfe Medical

\*C Taylor D J Pig Diseases (6th edition) 1995, ISBN 0950693251

Web sites: OIE, Australian Government, APHIS

Bovine Tuberculosis Badgers Report To The RT Hon Dr Jack Cunningham MP by Professor JR Krebs FRS and the Independent Scientific Review Group, MAFF Publications PB 3423 (Price £35)

## **VETERINARY PUBLIC HEALTH**

### **Zoonoses**

Acha P N, Szyfres B, Zoonoses and Communicable Diseases Common to Man and Animals 1987, ISBN 9275115036, Pan American Health Organisation

\*D Advisory Committee on Dangerous Pathogens, Categorisation of Biological Agents According to Hazards and categories of containment, Fourth Edition, 1995, ISBN 0171761038 1, HSE books

Advisory Committee on Dangerous Pathogens, Microbiological Risk Assessment: An Interim Report ISBN 0 11321162 9 HMSO

\*D Advisory Committee on the Microbiological Safety of Food Interim, Report on Campylobacter 1993, ISBN 0 113216629 HMSO

\*D Advisory Committee on the Microbiological Safety of Food, Report on Poultry Meat 1996, ISBN 0 113219695 HMSO

Advisory Committee on the Microbiological Safety of Food, Report on Salmonella in Eggs 1993, ISBN 0 113215681, HMSO

\*D Advisory Committee on the Microbiological Safety of Food, Report on Verocytotoxin-producing Escherichia Coli 1995, ISBN 0 11321909 1 HMSO

\*C Palmer S R, Soulsby L, Simpson, Zoonoses

Beran G W, Steele J H ( eds}. Handbook of Zoonoses. Sections A: Bacterial. Rickettsial. Chlamydial and Mycotic 1994, ISBN 0849332052, CRC Press

Office International des Epizooties, World Animal Health in 1996 { 2 Vols}, ISBN 92904443 6 and 929044449 5

Brander G C, Ellis P R The Control of Disease. Series: Animal and Human Health 1977, ISBN 07020006343, Balliare Tindall

Council Directive 92/1 17/BC of December 1992 concerning measures for protection against specified zoonoses and specified zoonotic agents in animals and products of animal origin in order to prevent outbreaks of food-borne infections and intoxications. Official Journal L Series, Vol. 36 L62, 15/3/93 p38

EC, Trends and Sources of Zoonotic Agents in Animals, Feeding Stuffs, Food and Man in the European Union in 1995- an Evaluation of the trend reports of the year 1995 by the member States to the European Commission ace. to ART 5 of Directive 92/1 17/EEC as amended by 97/22, obtainable from Tolworth.

House of Commons Agriculture Committee Session 1988-89. First Report: Salmonella in Eggs:

Progress Report 1989, ISBN 01020339000, HMSO

House of Commons Agriculture Committee First Report: Salmonella in Eggs: Volume 11989, ISBN 0102806896, HMSO

House of Commons Agriculture Committee Session 1988-89, First Report: Salmonella in Eggs:  
Volume 2 1989, ISBN 0102793891, HMSO

House of Commons Salmonella in Eggs: Response of the Government to the First Report From the House of Commons Agriculture Committee. 1989, ISBN 010168727, HMSO

House of Lords Report on Antibiotic Resistance, 1998

Agriculture Select Committee Report on Food Safety 1998

Parliamentary Office of Science and Technology Microbiological Food Safety. Trends and Their Implications October 1997

\*C MAFF A Guide to the Poultry Breeding in Flocks and Hatcheries Order 1993 1993, PB 1435, MAFF

\*D MAFF Code of Practice for the Control of Salmonella During the Storage. Handling and Transport of Raw Materials Intended for Incorporation into, or Direct use as. Animal Feeding stuffs 1995, PB 2202, MAFF

\*D MAFF Code of Practice For the Control of Salmonella for the UK Fish Meal Industry 1995, PB2203, MAFF

\*D MAFF Code of Practice For the Control of Salmonella in the Animal By-Products Rendering Industry 1995, PB2199, MAFF

\*D MAFF Code of Practice For the Control of Salmonella in the Production of Final Feed for Livestock in Premises Producing Less than 10. 000 Tonnes Per Annum 1995, PB2210, MAFF

\*D MAFF Code of Practice For the Control of Salmonella in the Production of Final Feed for Livestock in Premises Producing More than 10. 000 Tonnes Per Annum 1995, PB2200, MAFF

\*C MAFF Code of Practice for the Prevention and Control of Salmonella in Breeding Flocks and Hatcheries 1994, PB 1564, MAFF

\*D Code Of Practice for the Prevention and Control of Salmonella in Commercial Egg Laying Flocks 1995, PB2205, MAFF

\*D Code of Practice for the Prevention of Rodent Infestations in Poultry Flocks 1996, PB2630, MAFF

MAFF Salmonella in Eggs: Response of the Government to the Progress Report from the House Of Commons Agriculture Committee 1990, ISBN 0101099320, HMSO Cm 993

\*D MAFF Salmonella in Livestock Production 1995, obtainable from Salmonella Section, Epidemiology Department, CVL

MAFF, VIDA, Veterinary Investigation Surveillance Report 1995 and 1988-95 ISBN 1 8995 1303 5 CVL

Report of the Committee on the Microbiological Safety of Food The Microbiological Safety of Food Part 1 1990, ISBN 0113212739, HMSO

Report of the Committee on the Microbiological Safety of Food The Microbiological Safety of Food Part2 1990, ISBN 0113213476, HMSO

Schwabe C W Veterinary Medicine and Human Health 1984, ISBN 0683075942, Williams and Wilkins

Stationary Office Ltd The Poultry Breeding Flocks and Hatcheries order 1993 Statutory Instrument No 1898- Enabling Power: Animal Health Act 1981. 1983, ISBN 0110348982

The Medical Impact of The Use of Antimicrobials in Food Animals Report of a WHO Meeting in Berlin Germany, 13-17 Oct 1997 {WHO/EMC/zoo/97.4}

The Food Standards Agency. A Force for Change- A White Paper Presented to Parliament Jan 1998 CM38301ISBN101383029

The House of Lords Select Committee on Science and Technology, Sub Committee One Report:

Resistance To Antibiotics and Other Antimicrobial Agents { Seventh Report of Session 1997-1998 {HL81}  
House of Commons Agriculture Committee- Fourth Report on Food Safety. Volume One, The Stationary Office 1998, 3311  
Parliamentary Office of Science and Technology Safer Eating. Microbiological Food Poisoning and Its Prevention, October 1997 ISBN 18979421 560 { Price £14}

## **MEAT HYGIENE**

\*D Bremner A 5, Johnston AM Poultry Meat Hygiene and Inspection 1996, ISBN 0702018937, Saunders

Microbial Antibiotic Resistance in Relation to Food Safety 1999, Advisory Committee on Microbiological Safety of Food Report

### **European Directives:**

91/497/EEC {Fresh Meat}

92/45/EEC {Wild Game}

92/116/EEC { Poultry Meat}

92/5/EEC { Meat Products}

94/65/BC {Minced Meat and Meat Preparations}

FAO Food and Nutrition Paper: 58 The Use of Hazard Analysis Critical Control point {HACCP}

Principles In Food Control Report of an FAO Expert Technical Meeting, Vancouver, Canada,

12-16 December 1994, 1995 ISBN 9251034974, FAO

\*D Gracey J F, Collins D S Meat Hygiene { 9th edition} 1992 ISBN 0702014966, Bailliere Tindall

HMSO Food Safety Act 1990, ISBN 0105416908, HMSO

HMSO The Fresh Meat (Beef Controls) {No.2} Regulation 1996 Statutory Instrument 2097 1996, ISBN 0110631242

HMSO The Fresh Meat (Beef Controls) {No.2} { Amendment} Regulation 1996 Statutory Instrument 2522, 1996, ISBN 0110631242

HMSO The Fresh Meat (Hygiene and Inspection} Regulations 1995 Statutory Instrument 539

HMSO The Fresh Meat (Hygiene and Inspection) (Amendment) Regulation 1995 Statutory Instrument 3189

HMSO The Fresh Meat { Hygiene and Inspection) { Amendment} Regulation 1996: Agriculture Statutory Instrument 1148, 1996, ISBN 0110546784

HMSO The Fresh Meat f Hygiene and Inspection) {Amendment) Regulations 1997  
ISBN 011064881 1 5.1 No. 2074

HMSO The Meat Products (Hygiene) Regulations 1994 Statutory Instrument 3082

HMSO The Minced Meat and Meat Preparation (Hygiene) Regulations 1995 Statutory  
Instrument 540

HMSO The Poultry Meat. Farmed Game Bird Meat and Rabbit Meat (Hygiene and  
Inspection) Regulations 1995 Statutory Instrument 540

HMSO The Wild Game (Hygiene and Inspection}Regulations 1995 Statutory  
Instrument 2148

HMSO Zoonoses Order, 1989

Loken J K, LIACCP Food Safety Manual 1995, ISBN 0471056855

MacDonald D J, Engel D M A Guide to HACCP: Hazard Analysis For Small  
Businesses 1996, ISBN 1871912903, Highfield Publications

Mortimore 5, Wallace C A Practical Approach To HACCP: Training Package 1997,  
ISBN 0751403059, Blackie Academic

\*D Pearson AM HACCP In Meat. Poultry and Fish Processing 1995, ISBN 075  
140229X, Blackie Academic

Pierson M D, Corlett D A HACCP: Principles and Applications 1992, ISBN  
0412071010, Chapman and Hail

## **VETERINARY MEDICINES**

\*D Commission of the European Communities Rules Governing Medicinal  
Products in the European Community: Volume V Veterinary Medicinal Products,  
1989, ISBN 9282596435, Stationary Office

Commission of the European Communities' Rules Governing Medicinal  
Products in the European Community: Volume VI- notice to Applicants for  
Marketing Authorisation for Veterinary Medicinal Products in the European  
Community, 1993, ISBN 9282657809

Commission of the European Communities' Rules Governing medicinal Products  
in the European Community: Volume VII- Guidelines for the Testmnn of  
Veterinary Medicinal Products- September 1994 1995, ISBN 9282692698,  
Stationary Office

HMSO Medicines Act 1968 Chapter 67 1994, ISBN 0105467685, Stationary  
Office

## **RESIDUES**

\*D Commission of the European Communities' Rules Governing Medicinal Products  
in the European Community: Volume VII- Establishment of Maximum Residue Levels

of Veterinary medicinal Products in Foodstuffs of Animal Origin 1996, ISBN  
9282764273, Stationery Office

Council Regulation {EEC} No. 23 77/90 of June 1990 Laying Down a Community  
Procedure for the Establishment of Maximum Residue Limits of Veterinary Medicinal  
Products in Foodstuffs of Animal Origin

HMSO The Animals. Meat and Meat Products { Examination for Residues and  
Maximum Residue Limits} Amendment Regulation 1996: Food 1996, ISBN  
0110541456, Stationery Office

Veterinary Medicines Directorate Keep Meat Free of Unacceptable Residues of  
Veterinary Medicines 1992, MAFF

Veterinary Medicines Directorate Annual Report on Surveillance for Veterinary  
Residues in 1995. 1996, PB2756, VMD

## **IMPORT AND EXPORT CONTROL OF ANIMALS AND ANIMAL PRODUCTS**

Animals and Animal Products (Import And Export ) Regulations 1998

European Directives:

64/432/EEC (as amended by 97/12)-Intra-Community Trade in Bovine Animals and  
Swine

88/407/EEC- Bovine Semen

89/556/EEC-Bovine Embryos

90/425/EEC-Vet Checks

90/426/EEC-Equidae

90/429/EEC-Porcine Semen

91/68/EEC-Intra-Community Trade in Ovine and Caprine Animals

92/65/EEC- "Balai" Directive

96/93/BC- On Certification of Animals and Animal Products

97/78/BC: Council Directive of 18 December 1997 laying down the principles  
governing the organisation of veterinary checks on products entering the community  
from third countries

91/496/BC: Council Directive of 15 July 1991 laying down the principles governing  
the organisation of veterinary checks on animals entering the community from third  
countries and amending Directives 89/662/BC, 90/675/BC, L268 24/9/9 1 p56

92/118/BC: Balai directive for products of animal origin not detailed in other  
directives

HMSO The Animal {Post Import Control} Order 1995 Statutory Instrument 2439  
1995, ISBN 0110535162

MacDiarmid S C. Risk Analysis and the International Trade in Animals and Their  
Products. From  
Dijkhuizen A A, Morris R S Animal Health Economics: Principles and Applications,  
1997, ISBN 0646 314815, University of Sydney. p171-185

## **GENERAL DISEASE CONTROL MEASURES**

Control of Dogs Order of 1992

D of A (Approved Disinfectants) Order 1978- as amended

D of A (Waste Food) Order 1973- as amended

Markets. Sales and Lairs Order of 1925- as amended

Processed Animal Protein Order 1989

Sheep and Goats (Records. Identification and Movement) Order 1996

The Bovine Animals (Records. Identification and Movement) Order 1995

The Pigs (Records. Identification and Movement) Order 1995

The Cattle Identification Regulations. 1998

## **JURISPRUDENCE**

Cases and Materials on the English Law System { 7th edition} 1996, ISBN 040608  
17X, Butterworths

Criminal Procedure and Investigation Act 1996 Code of Practice [S.23(1)] 1997,  
RN/ISO

Code for Crown Prosecutors 1994, Crown Prosecution Service, Information Branch,  
50 Ludgate Hill, London EC4M 7EX

\***D** Corre N, A Guide to the 1995 Revisions to the PACE Codes of Practice 1995,  
ISBN 1898899177, Callow

Cross R, Wilkins N, Bagshaw R Outline of the Law of Evidence (7th edition), 1996,  
ISBN0406045208, Butterworth

\***D** Ehrlich S G, Jones L V. Photographic Evidence: The Preparation and use of  
Photographs in Civil and Criminal Cases 1974, ISBN 0853340013, Maclaren

Heydon J D, Okelton M Evidence Cases and Materials {4th edition}, 1996, ISBN  
0406081808, Butterworth



\*D Hobbs I C The Role of the Expert Witness: Accountants Digest 286, 1992, ISBN 1853553131, Accountancy Books Digest

\*D Keane A The Modern Law of Evidence {4th edition} 1996, ISBN 0406081859

Seabrook 5, Sprack J Criminal Evidence and Procedure: The Statutory Framework, 1996, ISBN 1854314157, Blackstone Press

Sharp S Electronically Recorded Evidence: A Guide to the Use of Tape and Video Recordings in Criminal and Civil Proceedings, 1989, ISBN 1851900713, Fourmat

\*C Zander, M Police and Criminal Evidence Act (3rd edition), 1995, ISBN 042 153 040X, Sweet and Maxwell

## **ARTIFICIAL BREEDING**

88/407/BC Bovine Semen Trade Directive

90/429/BC Porcine Semen Trade Directive

ADAS, Embryo Transfer: Its Use and Techniques in Dairy Cattle 1988, PB 3146, MAEF

D' Silva J, Stevenson P, O'Brien T {Eds} Modern Breeding Technologies and the Welfare of Farm Animals, 1995, ISBN 1900156028

Herman H A, Madden F W The Artificial Insemination and Embryo Transfer of Dairy and Beef Cattle- A Handbook and Laboratory Manual 1987, ISBN 0813426294, Interstate Printers and Publishers Inc.

\*D International Embryo Transfer Society Manual of the International Embryo Transfer Society: A Procedural Guideline and General Information for the Use of Embryo Transfer Technology Emphasising Sanitary Procedures 1987

\*C MAFF Veterinary Code of Practice for Embryo Transfer in Great Britain 1980, MAFF

\*D Report of the Committee to Consider the Ethical Implication of Emerging Technologies in the Breeding of Farm Animals (The Banner Committee Report) ISBN 0112429653, RN/ISO

Siedel GE, Siedel S M Training Manual for Embryo Transfer in Cattle 1991, ISBN 9251028044, FAO

## **ANIMAL WELFARE**

2nd Standing Committee on European Community Documents- European Community Documents Nos 7648/89 and 7654/89, Relating to Animal Welfare

Parliamentary Debates: House of Commons Official Report 1988-89, 1989, ISBN 0109999894

Church House Publishing General Synod Board for Social Responsibility Animal Welfare 1990, GS Misc. 341

Council Regulation {EC } No 2843/94 of 21 November 1994 Amending Regulations (EEC) No. 2328/91 and {EEC} No. 866/90 with a view to expediting the adjustment of production, processing and marketing structures as part of the reform of the common agricultural policy L302 25/11/94 p<sup>1</sup>

Department of Agriculture for Northern Ireland Animal Welfare Initiative 1990

Department of Agriculture for Northern Ireland Animal Welfare: New Codes for Fowls and Turkeys 1990

Department of Agriculture for Northern Ireland DAM Announces Further Consultation on Animal Transport Directive (91/628 as amended by 95/29) 1996

Department of Agriculture for Northern Ireland E C Directives on Animal Welfare 1992

Department of Agriculture for Northern Ireland New Animal Welfare Legislation 1995

European Communities Commission Directorate-General for Agriculture Farm Animal Welfare Programmes: Evaluation Report 1979-83, EUR 9180 ISBN 9282548236

European Communities Commission Directorate- General for Agriculture Study Into the Legal, Technical and Animal Welfare Aspects of Fur Farming CM-60-91-93 5-EN-C ISBN 9282605043

European Directives:  
78/923/EEC Council Decision of 19th June 1989 concerning the conclusion of the European Convention for the protection of animals kept for farming purposes. L323 17/11/78 p12

EU Directive on Protection of Animals During Slaughter and Killing

91/630/EEC Council Directive of 19 November 1991 Laying Down Minimum Standards For the Protection of Pigs, L340 11/12/91 p33

91/629/EEC Council Directive of 19 November 1991 Laying Down Minimum Standards For the Protection of Calves, L340 11/12/91 p28- as amended by Council Directive 97/2/BC of January 20, 1997 L25 28/1/97, p24 and Commission Decision 97/182/BC of 24th February 1997 L76 18/3/97, p30

91/628/EEC Council Directive of 19 November 1991 on the Protection of Animals During Transport and Amending Directives 90/425/EEC and 91/496/EEC, L340 11/12/91 p17

Frienne, D E -Report on EC Inspections Regarding Welfare of Livestock

95/227/BC Council Directive 95/29/BC of 29th June 1995 amending Directive 90/628/EEC concerning the protection of Animals During Transport, L148 3 0/6/95 p52

\*D Farm Animal Welfare Council Advice To Ministers on the Handling and Transport of Poultry  
1990 PB0125, MAFF

\*D Farm Animal Welfare Council Report To The European Commission Proposals On the Transport of Animals 1991, PB0687, MAFF

\*D Farm Animal Welfare Council Report On Priorities For Animal Welfare Research and Development 1993, PB13 10, MAFF

\*D Farm Animal Welfare Council Report On the Welfare of Broiler Chickens 1992, PBO9 10, MAFF

\*D Farm Animal Welfare Council Report on the Welfare of Laying Hens in Colony Systems, 1991, PB0734, MAFF

\*D Farm Animal Welfare Council Report on the Welfare of Livestock at Markets ISBN 0112427642, HMSO

\*D Farm Animal Welfare Council Report on the Welfare of Livestock (Red Meat Animals) At the Time of Slaughter 1984, ISBN 01 1242654X, HMSO

\*D Farm Animal Welfare Council Report on the Welfare of Farmed Fish 1996, PB2765, MAFF

\*D Farm Animal Welfare Council Report on the Welfare of Sheep 1994 PB 1755 MAFF

\*D Farm Animal Welfare Council Report on the Welfare of Turkeys 1995, PB2033, MAFF

\*D Farm Animal Welfare Council Report on the Welfare of Outdoor Pigs, 1996, MAFF

\*D Farm Animal Welfare Council Report on the Welfare of Laying Hens, 1997, MAFF

\*D Farm Animal Welfare Council Report on the Welfare of Dairy Cattle, 1997, MAFF

Great Britain House of Commons Agriculture Committee 1st Report {Vol. 1}: Animal Welfare in Poultry. Pig and Veal Calf Production- Report together with the Proceedings and Appendices House of Commons Session 1980/81, 1980, ISBN 0100081517

Great Britain House of Commons Agriculture Committee 1st Report {Vol. 2}: Animal Welfare in Poultry. Pig and Veal Calf Production- Report together with the

Proceedings and Appendices House of Commons Session 1980/8 1, 1980, ISBN 0100081312

Great Britain Parliament House of Commons Agriculture Committee Animals in Transit: Minutes of Evidence House of Commons Papers 1990-91, 1990, ISBN0102704910

Great Britain Parliament House of Commons European Standing Committee A European Community Document No. 72 14/90 on Animal Welfare. House of Commons Official Report 1990-9 1 1990, ISBN 0109751914

Humane Slaughter Association Handling and Loading of Livestock 1991, ISBN 1871561035

Meat and Livestock Commission Meat Industry Welfare Standards: Animal Welfare Standards for British Meat Production 1994

MAFF Committee on the Export of Animals for Slaughter 1974, Cmnd 5566, ISBN 0101556608, HMSO

\*C MAFF Code of Recommendation For the Welfare of Cattle 1983, PB0074, MAFF

\*C MAFF Code of Recommendation For the Welfare of Pigs 1983, PB0075, MAFF

\*C MAFF Code of Recommendation For the Welfare of Domestic Fowls 1987, PB0076, MAFF

\*C MAFF Code of Recommendation For the Welfare of Rabbits 1987 PBO080 MAFF

\*C MAFF Code of Recommendation For the Welfare of Turkeys 1987 PB0077, MAFF

\*C MAFF Code of Recommendation For the Welfare of Ducks 1987, PB0079, MAFF

\*C MAFF Code of Recommendation For the Welfare of Farmed Deer, PB0055, MAFF

\*C MAFF Code of Recommendation For the Welfare of Goats 1989, PBO081, MAFF

\*C MAFF Code of Recommendation For the Welfare of Sheep 1989, PB0078, MAFF

\*C MAFF Welfare of Horses. Ponies and Donkeys at Markets. Sales and Fairs 1990, PB0408

\*C MAFF Welfare of Poultry at Slaughter 1991, PB0733, MAFF

\*C MAFF Welfare of Red Meat Animals at Slaughter 1992, PB 1130, MAFF

\*C MAFF Construction and Layout of Red Meat Slaughter Houses in Relation to Animal Welfare. PB1129, MAFF

\*C MAFF Guidance On the Transport of Casualty Farm Animals , PB 1387 Reprint May 1998

MAFF Report of the Committee of Enquiry into the Export of Live Cattle to the Continent for Slaughter 1957, Cmnd 154, ISBN 010156130X, HMSO

Scottish Office Agriculture and Fisheries Department Draft Code of Practice: The Construction and Layout of Red Meat Slaughterhouses in Relation to Animal Welfare 1991

The Welfare of Animals {Transport} Order 1997 S.I 1997 No.1480 and IVIAFF Guidance PB3766 {1998}

**NB** Readers may wish to refer to Complete Legislation relating to state veterinary service work. This can be found on the MAIDEN or local area network system. Access is via file manager then by selecting the "P-drive", directory named "Legislat" and then the document entitled "legsltn.doc"

In Addition, the world wide web has some sites that may also contain useful information, amongst these are; OIE, NTO, USDA, MAFNZ, AQIS, WAFFWEB and B.S.E INQUIRY

July98

Nov99

July05

PLEASE ENSURE THAT YOU COMPLETE A FORM E1 (TO BE FOUND IN THE COMMON DOCUMENTS) AND ATTACH IT TO THIS FORM

**E1(A)**

**THE ROYAL COLLEGE OF VETERINARY SURGEONS  
SPECIALISATION AND FURTHER EDUCATION**

**DIPLOMA IN STATE VETERINARY MEDICINE**

Details of the establishment in which experience is being gained to meet the requirements of the byelaws for the Diploma in State Veterinary Medicine:

*(If more than one practice/establishment, please photocopy this form and complete in respect of each such establishment).*

1. Place of employment and address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Date of commencement of employment \_\_\_\_\_

and date of leaving if you are no longer employed at this address: \_\_\_\_\_

3. Number of veterinary surgeons usually working in your place of employment  
\_\_\_\_\_

4. Proportion of establishment time spent on work related to the Diploma syllabus:

\_\_\_\_\_ %

5. Proportion of candidate's time spent on work related to the Diploma syllabus:

\_\_\_\_\_ %

6. Referring to the syllabus tick the following subject areas in which you personally work:

Notifiable diseases  Veterinary Public Health

Meat Hygiene  Veterinary Medicines

Import Controls  Export certification

Artificial Breeding  Animal Welfare

Voluntary Herd/Flock Health Programmes

7. Names of senior colleagues in the practice/establishment who are prepared to assist you in your training.

(Note: This is in addition to your Adviser who may be outside your practice).

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**PLEASE RETURN ORIGINAL FORM PLUS FOUR COPIES**

---

Name \_\_\_\_\_  
(Block capitals)

Signature \_\_\_\_\_ Date \_\_\_\_\_

*Note: No acknowledgement will be sent. If an acknowledgement is required please enclose a stamped addresses envelope.*

Dec 1996  
Feb 1996  
Nov1997  
Feb2000  
Feb 2003

PLEASE ENSURE THAT YOU COMPLETE A FORM E1 (TO BE FOUND IN THE COMMON DOCUMENTS) AND ATTACH IT TO THIS FORM

**E1(B)**

**THE ROYAL COLLEGE OF VETERINARY SURGEONS  
SPECIALISATION AND FURTHER EDUCATION**

**DIPLOMA IN STATE VETERINARY MEDICINE**

Applications to be completed and returned to the RCVS, Belgravia House, 62–64 Horseferry Road, London SW1P 2AF **by 1 November** for consideration at the same time as enrolment or at a subsequent Board meeting.

1. **NAME** (block letters) \_\_\_\_\_

2. **PROPOSED TITLE FOR DISSERTATION**—giving a brief outline  
\_\_\_\_\_  
\_\_\_\_\_

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

**PLEASE RETURN ORIGINAL FORM SIX COPIES**

**OR**



PLEASE ENSURE THAT YOU COMPLETE A FORM E1 (TO BE FOUND IN THE  
COMMON DOCUMENTS) AND ATTACH IT TO THIS FORM

## E1(B)(continued)

THE ROYAL COLLEGE OF VETERINARY SURGEONS  
SPECIALISATION AND FURTHER EDUCATION

DIPLOMA IN STATE VETERINARY MEDICINE

### Published Papers

Two published papers are required

Applications to be completed and returned to the RCVS, Belgravia House, 62–64  
Horseferry Road, London SW1P 2AF **by 1 November** for consideration at the same time  
as enrolment or at a subsequent Board meeting.

1. **NAME** (block letters) \_\_\_\_\_
  
2. **TITLES, DATES AND DETAILS OF PUBLICATIONS**—giving a brief summary of  
content of each

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

**PLEASE RETURN ORIGINAL FORM PLUS SIX COPIES**

**THE ROYAL COLLEGE OF VETERINARY SURGEONS**

**SPECIALISATION AND FURTHER EDUCATION**

**DIPLOMA IN STATE VETERINARY MEDICINE**

Application for FINAL approval of experience and for permission to submit an entry to the next examination

This form must be completed and returned to the RCVS, Belgravia House, 62–64 Horseferry Road, London SW1P 2AF by 1 November prior to the year in which you wish to enter the examination. Your application should be accompanied by six photocopies of the completed form that are clear and of a good standard.

**NO LATE APPLICATIONS WILL BE ACCEPTED**

1. NAME in full (block letters)

---

2. DEGREES/DIPLOMAS/CERTIFICATES (in abbrev.form)

---

3. ADDRESS for all correspondence (block letters)

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4. (a) TELEPHONE No(s) (for contact during day) (b) FAX No. (for contact during day)

---

5. DATE OF ENROLMENT (month/year)

If application for enrolment is being submitted concurrently with this application, please state 'concurrent'.

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6. QUALIFICATION FOR ENTRY

Are you a Member of the RCVS? YES/NO

If Yes, please state veterinary degree obtained, name of the awarding University, and date of graduation and/or date of obtaining Membership:

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If No, please give details of the veterinary qualification, which you hold which entitles you to practise veterinary surgery in your home country (i.e. full title, recognised abbreviation, awarding University or other examining body, date obtained, length of the course) (**Please note that you must be a member of the RCVS when you sit the examination**):

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7. PERIODS OF EXPERIENCE BEING OFFERED to meet the requirements of the byelaws

Approved Veterinary Practice (name and address)	Period of Employment (from/to)	Certified by Principal

If there has been any change in the workload of the establishment, or in your personal work-load, since you applied for enrolment, please give details below:

8. ATTENDANCE AT RELEVANT SHORT COURSES

Candidates must attach a copy of their RCVS CPD Record Card for each year for which they are applying for final approval of experience. Details of all relevant short courses, conferences and meetings attended should be recorded on the Record Card. Candidates must comply with the annual recommended minimum hours of CPD otherwise final approval of experience and permission to sit the next examination will not be granted.

9. OTHER INVOLVEMENT IN RELATION TO STATE VETERINARY MEDICINE

List below any other relevant courses, conferences, congresses, meetings, symposia etc which are not detailed on your RCVS Record Card.

Attendance at relevant congresses, conferences, meetings, symposia, etc	Date and venue

10. PUBLICATIONS/ARTICLES/PAPERS/LECTURES

Give details below (including any involvement in the instruction of others):

11. OTHER POSTGRADUATE STUDIES

During the period of experience being offered, have you been or are you studying for any other postgraduate qualification? YES/NO

If yes, please give brief details:

12. I HEREBY APPLY FOR FINAL APPROVAL OF EXPERIENCE AND FOR PERMISSION TO SUBMIT AN ENTRY TO THE CERTIFICATE EXAMINATION IN STATE VETERINARY MEDICINE.

I certify that the period of experience being offered has not been/is not being offered to meet the requirements of the byelaws for any other RCVS Certificate or Diploma.

13. CONFIRMATION OF INTENT TO SIT THE NEXT EXAMINATION

If approval of experience is granted, I do/do not (delete as appropriate) intend to submit an entry to the next examination (closing date for receipt of entries is 1 March).

Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

**PLEASE RETURN ORIGINAL FORM PLUS SIX COPIES**

**THE FOLLOWING SECTION SHOULD BE COMPLETED BY YOUR ADVISER**

I confirm that I am acting as this candidate's Adviser.

Name \_\_\_\_\_  
(block capitals)

Signature \_\_\_\_\_

Date \_\_\_\_\_

---

**Note:**

- ***Please ensure your application is accompanied by six photocopies of the completed form. The photocopies should be clear and of a good quality.***
- ***No acknowledgement will be sent. If an acknowledgement is required please enclose a stamped addressed envelope.***
- ***Candidates will be advised of the outcome of their application by early January and MUST NOT telephone or write for this information in the interim.***

Dec 96  
Feb97  
May97  
Nov97

**DIPLOMA IN STATE VETERINARY MEDICINE**

Candidates should refer to the lists of Specialists and Diploma holders published in Section 3 of the RCVS Register of Members

April 2007

THE ROYAL COLLEGE OF VETERINARY SURGEONS

DIPLOMA IN STATE VETERINARY MEDICINE

MONDAY 10 JULY 2006

PAPER I

(Total 3 hours)

Candidates are required to answer **ALL NINE** questions on this paper, and only short answers are required.

Allow 10 minutes per question.

The use of simple labelled diagrams where appropriate, is encouraged.

*Illegible handwriting or failure to answer the question in the form requested may result in examiners being unable to award marks for information which candidates intended to convey.*

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SECTION A

1. **Discuss** the indications and contra-indications of vaccination of domestic birds in the current worldwide outbreak of avian influenza (H5N1 virus).
2. In reviewing its policy on the control of bovine tuberculosis, Government is considering a selective culling of badgers. **Discuss** briefly the **advantages and disadvantages** of embarking on a badger culling programme within Great Britain.
3. **Describe briefly** the roles of the Official Veterinarian.
4. How can the risk of introduction of infection into a country be minimized?
5. **Describe FIVE** reasons why there might be problems with control of endemic disease.
6. Explain the aims of a biosecurity programme and why it is important. Indicate how realistic it is to apply these principles to a farm.
7. Using Bovine Spongiform Encephalopathy (BSE) as an example, describe how a Veterinary Surveillance Scheme relating to food producing animals could be implemented.

**P.T.O. for questions 8 - 9**

8. Veterinary Surgeons play an important role in protecting animal health, animal welfare, public health and the environment. Indicate the national needs in respect of an outbreak of infectious disease in animals that has significant implications for public health, including a description of how to ensure readiness and coordination of the effort to protect the country against infectious disease.
  
9. The use of the “farm to fork approach” is increasingly being used in the production of safe food of animal origin. **Discuss** why food borne zoonoses could be better controlled (or eliminated) on the farm, rather than at slaughter, at post mortem meat inspection or during processing.

**P.T.O. for Sections B(i) and B(ii)**



THE ROYAL COLLEGE OF VETERINARY SURGEONS

**DIPLOMA IN STATE VETERINARY MEDICINE**

**MONDAY 10 JULY 2006**

**PAPER I  
SECTION B(i)**

Candidates are required to answer **ONE COMPULSORY** question in this **Section B(i)** set from Section 5 of the syllabus with a choice within the question.

Allow 45 minutes per question.

The use of simple labelled diagrams where appropriate, is encouraged.

*Illegible handwriting or failure to answer the question in the form requested may result in examiners being unable to award marks for information which candidates intended to convey.*

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**SECTION B (i)  
COMPULSORY QUESTION**

10. A nation-wide animal health and welfare strategy should include herd/flock health programmes.

**Discuss**

- a) the role of such programmes in achieving high animal health and welfare status at the farm and national levels.

**Or**

- b) the direct control mechanisms for a major notifiable epizootic disease. Include in your answer the limitation(s), if any, to the effectiveness of your suggested measures.

**P.T.O. for Section B (ii)**

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PAPER I  
SECTION B(ii)

Candidates are required to answer **ONE** question from a choice of **three** questions in this **Section B(ii)**.

Allow 45 minutes per question.

The use of simple labelled diagrams where appropriate, is encouraged.

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SECTION B (ii)

11. H5N1 avian influenza virus continues in its spread to many countries of the world.

**Discuss** the steps that the United Kingdom Government, poultry industry and veterinary profession should take to reduce the potential of any introduced virus gaining access to domestic poultry.

12. **Discuss** the management and operation (by a Government veterinary service) of large scale killing of livestock during emergencies, identifying the advantages, disadvantages and limitations of **each** approach given.

13. **Describe briefly** the rationale for import/export controls.

What is the system of movement controls of animals and animal products into and within the European Union and export of live animals to Third Countries? Include in your answer the role of the World Organisation for Animal Health [Office of International des Epizooties (OIE)] in imports and exports and the International Animal Health Code.

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MONDAY 10 JULY 2006

PAPER II

SECTION A

(Total 3 hours)

Candidates are required to answer **ALL NINE** questions on this paper, and only short answers are required.

Allow 10 minutes per question.

The use of simple labelled diagrams where appropriate, is encouraged.

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1. In a cross-sectional study to estimate the herd level frequency of Johne's disease and number of farms were randomly selected from all dairy farms in the area and classified as Johne's disease 'positive' or 'negative'. The results of the study indicated a prevalence of 0.3 (30%) positive herds with a 95% confidence interval between 0.22 and 0.38.

How would you interpret this confidence interval?

What would the effect of increasing the size of the study (increasing the number of farms included in the study) on bias and precision?

2. What defines stereotypic behaviour pattern? **Discuss** how social factors can affect health and productivity in housed animals.
3. When investigating the role of an infection in a herd you can choose between two tests:
- An ELISA with Sensitivity = 0.85 and Specificity = 0.95
  - An IFA test with Sensitivity = 0.95 and Specificity = 0.85
- a. In a scenario in which false positives were more undesirable than false negatives which test would you use?
- b. If you apply the test to herds with differ prevalence of the disease:
- (i) Would sensitivity and specificity be different when applying the test on different herds?
  - (ii) Would predictive values be different when applying the test on different herds?
- c. Which parameter measures the ability of the test to correctly detect individuals with disease or condition of interest?

4. **List FOUR** types of residues which may be found associated with animal production. Identify the statutory controls that are in place in United Kingdom at this time.
5. In a controlled environment Animal House describe the importance of maintaining various conditions within acceptable limits.
6. A welfare complaint, in the Spring, alleging that sheep were collapsing when brought in for head count by Department of Agriculture is to be investigated. It is on an isolated hill farm of 700 hectares run solely by an aged tenant farmer who has farmed there all his life. Farm comprises stone built sheds around a yard and a new cubicle shed with 850 outwintered spring lambing Cheviot ewes, 100 suckler cows plus followers, suckled calves sold at one year old through local markets.

Sheep - 14 ewes collapsed whilst walking in from hill, all ewes very thin and weak, Condition Score 0-1.5; 20% of flock were lame, foul smelling feet, many overgrown feet, horn separated from underlying tissue, bleeding feet; 21 sheep carcasses lying scattered on hill; no evidence of field troughs or supply of sheep/cattle concentrates on farm.

Cattle - 100 suckler cows (Luining and Shorthorn crosses) housed in new cubicle shed (internal water troughs and external feed barrier) fed straw and concentrates at the feed barrier; Cow condition scores ranged from 0.5-1.5, due to calve April/May; No water in sheds housing young stock (approximately 100); cattle let out on a daily basis to drink at a trough in the yard; A heavily pregnant cow in the cubicle shed went down and was unable to rise; 4 dead cows were found in the adjacent hay shed.

- a) What investigations would you carry out on the sheep?
  - b) What are your views on what you have seen?
  - c) What criteria are important in your assessment?
  - d) Any offences with the sheep carcasses? What is their significance?
  - e) Any welfare offences involving the cattle?
  - f) Could ignorance of the law be a valid defence?
7. Describe briefly how the primary and subordinate legislation in the fields of animal health, animal welfare, and public protection are formulated in the United Kingdom.
  8. **Discuss** the advantages and disadvantages of food animal production in intensive and in outdoor systems.
  9. **Describe briefly** the key points relating to the gathering of evidence for a prosecution.

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DIPLOMA IN STATE VETERINARY MEDICINE

MONDAY 10 JULY 2006

PAPER II  
SECTION B

Candidates are required to answer **TWO** of **four** essay questions.

Allow 45 minutes per question.

The use of simple labelled diagrams where appropriate, is encouraged.

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10. **Draw a template** for a Quantitative Risk Assessment of Zoonotic Potential of emerging infections if a new animal infection was discovered.
11. Foods for human consumption are frequently subjected to microbiological examination. **List** the **THREE** particular objectives of this sampling and **discuss briefly** the disadvantages of using microbiological criteria. Include in your answer comment on the use of indicator organisms (**giving an example if possible**) for monitoring purposes.
12. **Briefly describe** the four components of Risk Analysis showing clearly the ways in which they are related to each other.
13. In an animal enterprise, production function, may be regarded as an important index.  
**Describe** the benefits and limitations of using this value in animal production with regard to **both** energy and protein utilization. Base your answer on any chosen monogastrics and any ruminant.

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