



**Isle of Man
Government**

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Welfare Code Sheep

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Recommendations for the Welfare of Sheep

AN INTRODUCTION BY THE MINISTER

The Department of Environment, Food and Agriculture is introducing a new Welfare Code for sheep, based on the ***Five Freedoms***. This Welfare Code is the first to be updated in an ongoing programme. The Code has been produced after consultation with all interested organisations, and will assist in the production of quality livestock under farm assured schemes.

The ***Five Freedoms*** were developed by the Farm Animal Welfare Council. They form the foundation for assessing animal welfare within the agriculture industry and help to apply standards to safeguard animal welfare.

The Code, which was laid before Tynwald on the 18h January 2005, embodies the latest scientific advice and the best current husbandry practices and takes account of the ***Five Freedoms***.

The ***Five Freedoms*** are –

- 1. Freedom from hunger and thirst**
 - by ready access to fresh water and a diet to maintain full health and vigour;
- 2. Freedom from discomfort**
 - by providing an appropriate environment including shelter and a comfortable resting area;
- 3. Freedom from pain injury or disease**
 - by prevention or by rapid diagnosis and treatment;
- 4. Freedom to express most normal behaviour**
 - by providing sufficient space, proper facilities and company of an animal's own kind;
- 5. Freedom from fear and distress**
 - By ensuring conditions and treatment to avoid mental suffering.

In acknowledging these *Five Freedoms*, those people who care for livestock should demonstrate –

- caring and responsible planning and management;
- skilled, knowledgeable and conscientious stockmanship;

- appropriate environmental design (for example, of the husbandry system);
- considerate handling and transport;
- Humane slaughter.

The Preface to the Code identifies good stockmanship as a key factor in farm animal welfare. The Department recognises that there are already high standards in the industry due to the hard work of farmers. This Code should be an essential tool to measure those standards by.

The Preface also explains the status of the Code in relation to the Island's legislation.

R W Henderson
Minister of Agriculture, Fisheries and Forestry

This Welfare Code was laid before Tynwald on the 18th January 2005.

Preface

This preface is not part of the Code, but is intended to explain its purpose and to indicate the broad considerations upon which it is based.

The Code, comprising paragraphs 1 to 138, was laid before Tynwald on the 18th January 2005. It has been prepared following consultation as required by section 30 of the Animal Health Act 1996 (Part III: Welfare of Livestock) which reads as follows –

The Department may, after consultation with such organisations as appear to it to be representative of interests substantially affected –

- *prepare codes containing such recommendations with respect to the welfare of livestock for the time being situated on agricultural land or on or in any vehicle, container or moveable structure as it considers proper for the guidance of persons concerned with the livestock; and*
- *Revise any such code by revoking, varying, amending or adding to the provisions of the code in such manner as the Department thinks fit.*

The following further extracts from the Animal Health Act 1996 and The Welfare of Farmed Animals Order 2002 explain the status of the Code in relation to the Island's legislation –

Animal Health Act: section 28

Any person who –

- causes unnecessary pain or unnecessary distress to any livestock which are under his control, or
- permits any such livestock to suffer any such pain or distress of which he knows or may reasonably be expected to know,

Shall be guilty of an offence under this Act.

Animal Health Act: section 30(4)

A failure on the part of any person to observe a provision of a code for the time being issued under this section shall not of itself render that person liable to proceedings of any kind; but such a failure on the part of any person may, in proceedings against him for an offence under section 28, be relied upon by the prosecution as tending to establish the guilt of the accused unless it is shown that he cannot reasonably be expected to have observed the provision in question within the period which has elapsed since that provision was first included in a code issued under this section.

The Welfare of Farmed Animals Order 2002, article 3(1)

Owners and keepers of animals shall take all reasonable steps –

- to ensure the welfare of the animals under their care; and
- To ensure that the animals are not caused any unnecessary pain, suffering or injury.

The Welfare of Farmed Animals Order 2002, article 10

1. Any person who employs or engages a person to attend to animals shall ensure that the person attending to the animals –
 - a) is acquainted with the provisions of all relevant statutory welfare codes relating to the animals being attended to;
 - b) has access to a copy of those codes while he is attending to the animals; and
 - c) Has received instruction and guidance on those codes.
2. Any person who keeps animals, or who causes or knowingly permits animals to be kept, shall not attend to them unless he has access to all relevant statutory welfare codes relating to the animals while he is attending to them, and is acquainted with the provisions of those codes.

Nearly all livestock husbandry systems impose restrictions on the stock and, if care is not taken, some of these can cause an unacceptable degree of discomfort or distress by preventing the animals from fulfilling their basic needs. Provisions meeting these needs, and others which must be considered, include –

- comfort and shelter;
- readily accessible fresh water and a diet to maintain the animals in full health and vigour;
- freedom of movement;
- the company of other animals, particularly of like kind;
- the opportunity to exercise most normal patterns of behaviour;
- light during the hours of daylight, and lighting readily available to enable the animals to be inspected at any time;
- flooring which neither harms the animals, nor causes undue strain;
- the prevention, or rapid diagnosis and treatment of vice, injury, parasitic infestation and disease;
- the avoidance of unnecessary mutilation;
- Emergency arrangements to cover outbreaks of fire, the breakdown of essential mechanical services and the disruption of supplies.

The basic requirements for the welfare of livestock are a husbandry system appropriate to the health and, so far as practicable, the behavioural needs of the animals and a high standard of stockmanship.

The recommendations which follow are designed to help stockmen, particularly those who are young or inexperienced, to attain the required standards. The part that training has to play in the development of the stockman's awareness of welfare requirements cannot be overstressed. Detailed advice on the application of the Code in individual circumstances is readily available through the DAFF Field Staff and in advisory publications, some of which are listed at the end of this Code.

The legislation quoted in the document is not part of the Code but is intended to highlight the relevant legal requirements. The law quoted is that in force on the date of publication.

Any reference in this Code to advisory publications is for information only and does not form part of this Code.

Certain aspects of livestock husbandry can present hazards to the health and safety of the stockman. Advice on these matters is available from the Department of Local Government and the Environment, Health and Safety Section.

Introduction

1. In this Code the word 'sheep' refers to all ovine stock, and an animal under six months of age is considered to be a lamb.
2. The recommendations are relevant to sheep under all husbandry systems. Following them will help to ensure that the welfare of stock is safeguarded.
3. The number and type of sheep kept and the stocking rate and/or housing density should depend on the suitability of the environment, the capacity of the farm, the competence of the shepherd and the time available to carry out his or her duties. Good stockmanship is of paramount importance in all systems of sheep production.
4. The relevant animal welfare legislation applies to owners as well as to any person looking after sheep on their behalf, wherever the sheep are located. A written contract can be of value in ensuring that all parties are clear about their responsibilities in respect of welfare. However, the obligations imposed by law will still apply.
5. If any change in breed or type is contemplated, particularly if farming in difficult, extensive conditions, replacement should only be with a breed or type of sheep that is suitable for the location. For example, on hill farms, sheep should be sufficiently hardy and not prone to suffer as a result of extremes of climate.

Stockmanship

6. The most significant single influence on the welfare of any flock is the shepherd, who should develop and carry out an effective routine for continuing care.
7. All shepherds should be aware of the welfare needs of their sheep and be capable of safeguarding them under all foreseeable conditions before being given responsibility for a flock. This requires the acquisition of specific stockmanship skills. These may be developed on-farm, working with an experienced person, or by following a course offered by a suitable training organisation. Wherever possible, the training should be of a type which leads to formal recognition of competence.
8. Shepherds should know the signs of good health in sheep. These include general alertness, free movement, active feeding and rumination, and absence of lameness, visible wounds, abscesses or injuries.
9. Shepherds should also know the signs which indicate ill health in sheep. These include listlessness, abnormal posture and behaviour, lameness, scouring, absence of cudding, persistent coughing or panting, scratching and

frequent rubbing, rapid loss of body condition, excessive wool loss, sudden fall in milk yield and, in some circumstances, being apart from the flock.

10. The capabilities of the shepherd or shepherds in charge of the sheep are a significant factor in determining the size of a flock. The flock size should not be increased, nor should a unit be set up, unless the shepherds have the skills necessary to safeguard the welfare of every animal in their charge.
11. It is important for a farmer to ensure that enough time is available within the shepherd's normal work routine for the flock to be properly inspected and for any necessary remedial action to be taken.
12. It may be necessary to engage extra help such as experienced, competent contractors to provide extra assistance during busy periods such as lambing, shearing, routine dipping and other disease prevention treatments; or when regular staff are unavailable due to holiday or sickness.

Feed and water

13. The law requires that sheep should have access to suitable feed in sufficient quantity and sufficient fresh, clean water each day. Ideally, water should be available at all times and most particularly during lactation. It is not acceptable to rely on the water content of feedstuffs, including roots.
14. The law requires that the diet of sheep should always be adequate to maintain full health and vigour. Sudden changes in the type and quantity of feed should be avoided.
15. Sheep should be provided with fresh feed, and any which is stale or contaminated should be removed from troughs before more is added. Feed should be palatable and of good quality. It is especially important to dispose of silage which has deteriorated in storage or in the feed trough.
16. Systems involving the use of high intakes of cereal-based diets require a gradual introductory feeding period, during which sufficient roughage or a suitable high-fibre concentrate should also be fed. Care should be taken to prevent individual sheep from gorging by ensuring that there is plenty of trough space available to the flock. In such systems, mineral mixtures should be specifically designed to avoid urinary problems in male animals.
17. Certain substances, in particular copper, can be harmful to sheep. Compound feeds or mineral preparations which have been prepared for other species should be avoided unless the composition can be assessed as suitable for sheep. Shepherds should be aware of breed variations in susceptibility to copper poisoning.
18. Sheep farmers and shepherds should consider the state of the flock's dentition when culling. Sheep with poor teeth should preferably be culled. If

the sheep are to be retained, they should be provided with food which they can eat without difficulty and their body condition should be carefully monitored.

19. Arrangements should be made in advance to ensure that adequate supplies of suitable feed and water can be made available to sheep in emergencies, such as severe winter storms or summer drought.

Health

General

20. Shepherds should be experienced or trained and be competent across the range of health and welfare skills – which should include vaccination, drenching, prevention of foot rot and treatment of lame sheep, prevention and treatment of internal and external parasites including scab and fly strike, tail docking and castration. It is particularly important that shepherds have competence in the skills required at lambing time.
21. A written health and welfare programme for all animals should be prepared for each flock. This should cover the yearly production cycle. It should be developed with appropriate veterinary and technical advice, and reviewed and updated annually. The programme should include sufficient records to assess the basic output of the flock and should address, as a minimum, vaccination policy and timing, control of external and internal parasites, and foot care. Pasture management should form an integral part of disease control and especially so in the case of internal parasites and foot rot, where total reliance on drugs is best avoided.
22. Particular attention should be paid to sheep, including rams, which are to be introduced into an established flock, since diseases can easily be spread. Such sheep should be segregated for at least four weeks and inspected and treated, if necessary, for diseases such as sheep scab or foot rot. Newly introduced ewes should again be segregated for about four weeks before lambing and lambed separately, preferably after the main flock, to avoid the introduction of infectious abortion agents at this time.
23. Before introduction of rams to a flock at tupping time, ewes should be checked for fitness (especially for lameness, teeth, udders and body condition) and any ewe which is substandard should be culled, together with any known to have suffered reproductive problems in previous seasons. This is particularly important for animals expected to live under harsh conditions. Rams should also be checked for their suitability for breeding.
24. Records must be maintained of any medicinal treatment given and the number of mortalities found in each inspection. Where equivalent information is required to be kept for other purposes, such as for medicine records or sheep identification legislation, these shall suffice.

Inspection

25. The health and welfare of animals depend upon regular supervision. Shepherds should carry out inspections of the flock at intervals appropriate to the circumstances in which sheep are kept and pay particular attention to signs of injury, distress, illness or infestation (e.g. sheep scab, fly strike, lameness and mastitis) so that these conditions can be recognised and dealt with promptly. The frequency of inspection will depend on factors which affect sheep welfare at any particular time, such as housing, lambing, fly strike and adverse winter weather conditions.

Condition Scoring

26. Sheep farmers and shepherds should be aware that the use of condition scoring can contribute significantly to good husbandry. Condition scoring is an easy technique to learn and allows the body reserves of individual sheep to be assessed quickly. The information gained enables high standards of husbandry to be achieved and can prevent a welfare problem from developing. This technique enables the identification of animals requiring special care. For example, a condition score in a significant number of the flock of less than 2 for lowland sheep, and of 1.5 for those on the hill, can indicate inadequate management and the need for positive steps to rectify the situation.

Lameness

27. Lameness in any animal is usually an indication of pain. Lameness in sheep is one of the most common signs of ill health and discomfort. It has clear adverse welfare implications and also affects the performance and production of both ewes and rams. A significant percentage of sheep with chronic lameness may be indicative of poor overall welfare standards within the flock.
28. Good stockmanship, including frequent and thorough inspection along with correct diagnosis and implementation of a suitable programme of prevention and treatment, will help to reduce the incidence of lameness.
29. Lameness can originate in the feet or joints, although in adult sheep the foot is the most common site. A flock programme of foot care should be part of the written welfare programme referred to at paragraph 21. An effective foot care programme will include regular inspection of the sheep's feet. It may also necessitate regular and careful paring, treatment of infected feet and foot-bathing with a suitable solution, which is maintained at the manufacturer's recommended dilution, and, where appropriate, vaccination. If foot rot is a major cause of lameness or if normal treatments are unsuccessful, veterinary advice should be sought.

30. Foot paring is a skilled procedure and can damage feet if carried out incorrectly or excessively. If in doubt, specialist advice should be sought.
31. If a chronically lame sheep does not respond to remedial treatment, it should be culled and not left to suffer. As such animals cannot be transported in a way which avoids further suffering, they should be slaughtered on the farm (see paragraph 37). In addition, sheep that cannot get up without assistance or sheep that can bear weight on only three legs when standing must not be transported. Sheep that can bear weight on all four feet but are slightly lame should not be consigned to market or sent on any journey which is likely to exacerbate the injury, however slight.

External Parasites

32. Where external parasites, such as those causing scab or fly strike, ticks or lice, are likely to occur, sheep should be protected by dipping or by the use of an effective preventive chemical agent. Where sheep are clinically infected with such external parasites, effective treatment must be given without delay.

Internal Parasites

33. Internal parasites should be controlled by grazing management and/or anthelmintic treatment administered at appropriate times based upon the life cycle of the parasite. Advice on appropriate timing, and steps to avoid the development of anthelmintic-resistant worms, should be sought from a veterinary surgeon or specialist adviser.

Casualties

34. Injured, ailing or distressed sheep should be identified and treated without delay. Where the shepherd is able to identify the cause of ill health, he or she should take immediate remedial action. When in doubt, veterinary advice should be obtained as soon as possible.
35. Provision should be made, and used when necessary, for the segregation and care of sick or injured animals. Unfit sheep (including infirm, diseased, ill and injured animals) should be removed from flocks.
36. If an unfit sheep does not respond to treatment, it should be culled or humanely killed on-farm. It is an offence to cause, or to allow, unnecessary pain or unnecessary distress by leaving a sheep to suffer.
37. In an emergency, it may be necessary to kill an animal immediately to prevent suffering. In such cases, the animal should be destroyed in a humane manner and, where possible, by a person experienced and/or trained both in the techniques and the equipment used for killing sheep.

38. If animals are killed or slaughtered on-farm, other than in an emergency, the operation may only be carried out using a permitted method and in accordance with current welfare at slaughter legislation.
39. An unfit sheep may be transported *only* if it is being taken for veterinary treatment/diagnosis or is going to the nearest available place of slaughter and then only provided it is transported in a way which is not going to cause it further suffering. Further advice can be found in a DEFRA booklet which gives guidance on the transport of casualty farm animals (see Appendix - p. 22).

Dosing and Vaccination Equipment

40. Care should be taken to ensure that all equipment used in dosing, vaccination and treatment is maintained to a satisfactory standard. Equipment used for any injections should be frequently cleansed and sterilised to avoid infections. Ideally, disposable needles should be used. Dosing gun nozzles should be of a size suitable for the age of the sheep. Hazardous objects such as needles should be disposed of safely in accordance with current legislation.
41. Where necessary, the shepherd should receive training in the use and maintenance of equipment used for dosing, vaccination and treatment.

Management

General

42. All fields and buildings should be kept clear of debris such as wire or plastic, which could be harmful to sheep.
43. When sheep are outdoors in winter, and particularly when fed on root crops, they should be allowed either to run back to pasture or to a straw bedded area, which gives a more comfortable lying area as well as limiting the build-up of mud or dung on the fleece. Where there is no natural shelter for the sheep, artificial shelter, such as the placement of straw bales, should be provided.

Marking

44. Permanent marking of sheep by, for example, ear tattooing or tagging, should be carried out only by a skilled stockman using properly maintained instruments. Ear tags should be suitable for use in sheep. Wherever possible, marking should not be undertaken during the fly season. If marking does have to be carried out during the fly season, farmers should take measures which will prevent or reduce the threat of fly strike. Where, for flock management purposes, ear marking is by notching or punching, this should be done using proprietary equipment. If horned breeds of sheep are to be marked for flock management purposes, horn branding is to be preferred.

45. Aerosols or paints used for temporary marking should be non-toxic.

Handling

46. All sheep farmers should have easily operated and efficient handling pens, to facilitate routine management and treatment, on a size and scale to suit the flock numbers. Pens and floors should be maintained in good repair and should not have any sharp edges or projections, which might injure sheep.
47. When sheep are to be transported, well-designed collecting, loading and unloading facilities should be available on the farm. It is helpful if the sheep are familiar with these handling pens in order to minimise stress levels.
48. Sheep should *not* be caught by the fleece alone. They should be handled or restrained by means of a hand or an arm under the neck (holding the neck wool, if necessary) with the other arm placed on or around the rear. Lifting or dragging sheep by the fleece, tail, ears, horns or legs is unacceptable. Care should be taken with horns, which may be broken off if sheep are roughly handled.
49. Devices such as raddles, harnesses, tethers and yokes should be of suitable material and should be properly fitted and adjusted to avoid causing injury or discomfort. They should be checked regularly and should not be used for longer than necessary. Tethering by the horns is unacceptable.

Fencing and Hedges

50. Fences and hedges should be well-maintained so as to avoid injury to sheep and prevent entanglement. Where any type of mesh fencing is used, particularly for horned sheep, and around lambing fields, it should be checked frequently so that any animals which are caught can be released.
51. Electric fences should be designed, installed, used and maintained so that contact with them does not cause more than momentary discomfort to the sheep. Electric mesh fencing should not be used for horned sheep.

Shearing

52. Every mature sheep should have its fleece removed at least once a year.
53. Shearers should be experienced, competent and have received adequate training in shearing techniques. Inexperienced shearers should be supervised by suitably competent staff. When shearing, care should be taken not to cut the skin of the sheep. Where a wound does occur, immediate treatment should be given.

54. Shearers and all contractors should clean and disinfect their equipment between flocks to minimise the risk of spreading disease.
55. Full use should be made of weather forecasts and shelter to avoid excessive cold stress to newly shorn sheep at whatever time of year shearing is carried out.
56. Winter shearing is not a suitable practice unless the sheep are housed.
57. Sheep which were shorn and housed in winter should be turned out to grass in spring only when the fleece has regrown to 15–20 mm in length and when weather conditions are favourable. Where adequate natural shelter is not available, other means should be adopted, such as the provision of straw bales.

Castration

58. Farmers and shepherds should consider carefully whether castration is necessary within any particular flock. Castration is unlikely to be necessary where lambs will be finished and sent to slaughter before reaching sexual maturity. The procedure should only be carried out when lambs are likely to be retained after puberty and where it is necessary to avoid welfare problems associated with the management of entire males.
59. Account should be taken not only of the pain and distress caused by castration but also the stress imposed by gathering and handling, and the potential risk of infection. For very young lambs gathered in large groups, there is a real risk of mis-mothering, which may lead ultimately to starvation and death.
60. Castration should not be performed on lambs until the ewe/lamb bond has become established.
61. Castration may only be carried out in strict accordance with the law. The procedure should be performed by a competent, trained operator. Once a lamb is over three months of age, castration may only be performed by a veterinary surgeon using a suitable anaesthetic. Shepherds should only carry out surgical castration after having first considered and ruled out alternative methods, in discussion with their veterinary surgeon.

Tail docking

62. Farmers and shepherds should consider carefully whether tail docking within a particular flock is necessary. Tail docking may be carried out only if failure to do so would lead to subsequent welfare problems because of dirty tails and potential fly strike. If it is considered that both tail docking and castration are necessary, thought should be given to performing both operations at the one

time of handling, so as to minimise disruption and the potential for mis-mothering and distress.

63. Tail docking must be carried out only in strict accordance with the law. The procedure should be performed by a competent, trained operator.

Tooth Grinding

64. Tooth grinding of sheep is prohibited by law.

Electro-immobilisation, vasectomy and electro-ejaculation

65. The electro-immobilisation of sheep is prohibited by law. Vasectomy or electro-ejaculation may be carried out only by a veterinary surgeon.

Dehorning or disbudding

66. Dehorning or disbudding of a sheep by lay persons is against the law, except for the trimming of ingrowing horn in certain circumstances. Horned sheep, especially rams, should be regularly inspected to ensure that neither the tip nor any other part of the horn is in contact with the face.

Breeding Techniques

67. The body condition of the ewe and nutritional management prior to tupping have a marked effect on the ovulation rate and eventual litter size. The ram should also be in appropriate body condition. Farmers and shepherds should be aware of the influence of pre-mating management upon the subsequent needs of the ewe in pregnancy, and should plan accordingly.
68. It is possible to manipulate the time and pattern of lambing by using vasectomised rams, intra-vaginal progestagen sponges – with or without pregnant mare serum gonadotrophin (PMSG) – or administration of melatonin. If the lambing date is changed and/or litter size is increased, account should be taken of the special requirements for feed, labour and other inputs both before and at lambing time, when the welfare of ewes is under particular pressure. In particular, housing or shelter should be available if lambing is to take place in adverse weather conditions.
69. Any person using artificial insemination should be trained and competent in the technique.
70. Laparoscopic artificial insemination is a surgical technique which must be carried out only by a veterinary surgeon using an anaesthetic.

71. Treatment of ewes using hormones to produce multiple embryos and subsequent embryo transfer must be carried out only by a veterinary surgeon. Embryo transfer is an act of veterinary surgery.

Pregnancy and Lambing

72. The nutritional management of pregnant ewes is particularly important. Both condition scoring and scanning can be of benefit.
73. Pregnant and nursing ewes should receive adequate food to ensure the development of healthy lambs and to maintain the health and bodily condition of the ewe.
74. Scanning can be a valuable aid to management. However, scanning is an addition to good husbandry not a replacement. The scanning procedure allows barren, single, twin and triplet bearing ewes to be managed as separate groups. A combination of scanning and condition scoring allows ewes carrying more than one lamb, and thin ewes, to be separated for special feeding and supervision. Equipment should be properly cleansed and disinfected between flocks.
75. Heavily pregnant ewes should be handled with care to avoid distress and injury, which may precipitate premature lambing. However, if a heavily pregnant ewe requires treatment, such as for lameness, she should receive appropriate treatment as soon as possible and not be left untreated until after lambing.
76. A large proportion of ewe mortalities occur during the period around lambing, so particular skill and expertise are required at this time. Severe damage can be caused through inexperience when assisting a ewe in difficulties. Shepherds should therefore be experienced and competent before having responsibility for a flock at lambing time. Where necessary, they should receive training.
77. Shepherds should pay particular attention to cleanliness and hygiene of equipment and pens during pregnancy and lambing. Personal cleanliness is essential when assisting ewes to lamb. Attention to cleanliness and hygiene is also important in the lambing area and pens used in treating or assisting lambing ewes. Lambing pens, sufficient in number and size, should be easily accessible and on a dry, well-drained site. Each pen should be provided with a hay rack, feed trough and water bucket. If the pens are outdoors, their tops should be covered.
78. There may be times when even a proficient shepherd experiences difficulty in delivering a lamb single-handed. In such cases, assistance should be called immediately.

79. Any ewe with a prolapse should be treated immediately using an appropriate technique and, where necessary, veterinary advice should be sought.
80. Embryotomy, the dissection and removal of a foetus which cannot be delivered naturally, should be carried out on dead lambs only. It should *never* be used to remove a live lamb.
81. Every effort should be made to prevent the build-up and spread of infection by ensuring that lambing pens are provided with adequate, clean bedding and are regularly cleansed. It is particularly important to ensure that dead lambs and afterbirths are removed and disposed of in a suitable manner without delay.
82. Shepherds should be able to recognise lambs in need of resuscitation and be familiar with resuscitation techniques and survival aids, such as feeding by stomach tube and use of a warmer box. A DEFRA booklet on improving lamb survival gives further information (see Appendix - p. 22).
83. It is vital that every newly-born lamb receives colostrum from its dam, or from another source, as soon as possible and in any case within three hours of birth. Adequate supplies of colostrum should always be available for use in emergencies, such as when a ewe lambs with poor milk supplies.
84. A source of heat (for example a warmer box) should be available to revive weak lambs, but care should be taken to avoid overheating.
85. Where lambing takes place outdoors, some form of shelter or windbreak should be available.
86. The problem of mis-mothering, which occurs particularly during gathering, handling, transport or dipping of ewes and lambs, should be reduced by keeping group size to a minimum. Identifying lambs and mothers is also beneficial, using non-toxic colour markers.
87. Wherever possible, young lambs, other than with their mothers, should not be sold at market. Arrangements for the direct transfer of orphan lambs from farm to farm, rather than through a market, should be encouraged in order to minimise disease risk. The law forbids the transport and the sale at market of lambs with an unhealed navel.

Artificial Rearing

88. Artificial rearing of lambs requires close attention and high standards of supervision and stockmanship if it is to be successful. It is essential that all lambs should start with an adequate supply of colostrum.

89. All lambs should receive an adequate amount of suitable liquid feed, such as ewe milk replacer, at regular intervals each day for at least the first four weeks of their life.
90. From the second week of life, lambs should also have access to palatable and nutritious solid food (which may include grass) and always have access to fresh, clean water.
91. Where automatic feeding equipment is provided, lambs should be trained in its use to ensure that they regularly consume an adequate amount of food and the equipment should be checked daily to see that it is working properly.
92. Troughs should be kept clean and any stale feed removed. Automatic feeding systems must be well-maintained and checked daily. Equipment and utensils used for liquid feeding should be thoroughly cleansed and sterilised at frequent intervals.
93. A dry bed and adequate draught-free ventilation should be provided.
94. Where necessary, arrangements should be made to supply safe supplementary heating for very young lambs.
95. Suitable accommodation should be available for sick or injured lambs. This should be separate from other livestock.
96. Until weaning, housed lambs should be kept in small groups to facilitate inspection and limit the spread of disease.
97. Where young lambs are being reared at pasture without their mothers, care should be taken to ensure that they have adequate shelter.

Housing

General

98. Winter housing of sheep can improve welfare, but problems of both disease and welfare can arise when large numbers are kept together. Advice should be sought on the design, construction or modification of buildings. Adequate ventilation without draughts is of particular importance, as also is the provision of sufficient trough space and lying area.
99. The greater the restriction imposed on a sheep through housing systems, the less the animal is able to use its instinctive behaviour to minimise the effects of any imposed, unfavourable conditions. Housed sheep require continuing conscientious attention by staff well-trained in the nutritional and environmental needs of the sheep.

100. When changes are made to sheep husbandry systems which involve installing more complex or elaborate equipment than had previously been used, consideration should be given to the welfare of the animals and the need for the training of the shepherd.
101. Dry, clean, comfortable conditions under foot should be provided to minimise foot rot and hygiene problems. Regular provision of fresh bedding is particularly important at lambing time.
102. When first housed, sheep should be both dry and free from foot rot. Sheep affected by foot rot should be segregated and treated immediately in order to prevent it from becoming a flock problem.

Ventilation

103. Effective ventilation of buildings (to avoid high humidity, condensation and draughts) is essential, as sheep are particularly susceptible to respiratory diseases. Properly designed ventilation will permit the free circulation of air above sheep height and avoid draughts at sheep level.

Buildings and Equipment

104. The law sets minimum requirements for the housing of sheep.
105. Internal surfaces of housing and pens should be made of materials which can be cleansed and disinfected or be easily replaced when necessary.
106. Surfaces should not be treated with paints or wood preservatives which may cause illness or death. There is a risk of lead poisoning from old paintwork, especially when second-hand building materials are used.
107. All floors should be designed, constructed and maintained so as to avoid discomfort, stress or injury to the sheep. Regular maintenance is essential.
108. Solid floors should be well-drained and the sheep provided with dry bedding.
109. Newly-born and young lambs should not be put on slatted floors unless suitable bedding is also provided.
110. Water bowls and troughs should be constructed and sited so as to avoid fouling and to minimise the risk of water freezing in cold weather. They should be kept thoroughly clean and should be checked at least once daily, and more frequently in extreme conditions, to ensure that they are in working order.
111. Troughs should be designed and installed in such a way as to ensure that small lambs cannot get into them and drown.

112. For sheep given concentrate feed, when all animals are fed together, it is important to have adequate trough space to avoid competition and aggression. In normal practice, approximately 30 cm of trough space is needed for hill ewes and approximately 45 cm for the larger lowland ewes. Excessive competition is detrimental to sheep welfare.
113. When feeding hay and silage *ad lib.*, trough space should normally be provided within the range 10–12 cm per ewe, dependent upon size. Racks and troughs should be positioned and designed to avoid injury, discomfort and damage to sheep.

Lighting

114. The law requires that fixed or portable lighting be available so that sheep kept in buildings can be thoroughly inspected at any time.
115. Throughout the hours of daylight, the level of indoor lighting, natural or artificial, should be such that all housed sheep can be seen clearly by the shepherd.
116. The space allowance and group size for housed sheep should be determined according to age, size and class of livestock. Some examples of current good practice, with adequate ventilation and well-bedded on straw indoors, are set out below.

Lowland ewes (60–90 kg live weight)	1.2–1.4 m ² floor space per ewe during pregnancy
Lowland ewes after lambing with lambs at foot up to six weeks of age	2.0–2.2 m ² floor space per ewe and lambs
Hill ewes (45–65 kg live weight)	1.0–1.2 m ² floor space per ewe during pregnancy
Hill ewes after lambing, with lambs at foot up to six weeks of age	1.8–2.0 m ² floor space per ewe and lambs
Lambs up to 12 weeks old	0.5–0.6 m ² floor space per lamb
Lambs and sheep 12 weeks to 12 months old	0.75–0.9 m ² floor space per lamb/sheep
Rams	1.5–2.0 m ²

Shorn sheep

The space allowances may be reduced by 10% for winter-shorn sheep. However no corresponding reduction should be made in respect of the amount of trough space allocated – see paragraphs 112 and 113.

Group size

Where possible, pregnant ewes should be kept in groups of less than 50 to allow for better individual recognition and attention at lambing time.

Mechanical equipment and services

117. All equipment and services including water bowls and troughs, ventilating fans, heating and lighting units, milking machines, fire extinguishers and alarm systems should be cleaned and inspected regularly and kept in good working order.
118. The law requires all automatic equipment used in intensive systems to be thoroughly inspected by the shepherd, or other competent person, not less than once each day to check that there is no defect. Any defect must be rectified immediately.
119. All electrical installations at mains voltage should be inaccessible to sheep, well-insulated, safeguarded from rodents and properly earthed.

Fire and other Emergency Precautions

120. Farmers should make advance plans for dealing with emergencies such as fire, flood or disruption of supplies and should ensure that all staff are familiar with the appropriate emergency action.
121. Design advice is important when constructing or modifying a building. There should be provision for livestock to be released and evacuated quickly in the event of an emergency. Consideration should be given to installing fire alarm systems which can be heard and acted upon at any time of the day or night.
122. If sheep are housed, knowledge of fire precautions by the farmer and all staff should be a priority. Further information can be found in the DEFRA booklet: Farm Fires: Advice on Animal Welfare (see Appendix - p. 22).
123. You can get expert advice on all fire precautions from fire safety officers at the Isle of Man Fire and Rescue Service.

Hazards

124. To minimise the risk of sheep being trapped in snow or being unable to gain shelter, care should be taken in siting shelters, shelter belts and fences.

125. As far as is practicable, sheep should be prevented from gathering in places where they may be buried by snow. Where possible, they should be allowed to move naturally or be shepherded into safer areas.
126. All sheep should be removed from areas that are in imminent danger of flooding.
127. Young lambs should be protected, as far as possible, from hazards such as open drains and predators.
128. Any dog is a potential hazard to sheep and should be kept under control on agricultural land. Well-trained sheepdogs, however, can greatly facilitate gathering and handling, particularly under extensive conditions. They should be trained so that they do not grip sheep. Sheepdogs should be well cared for and maintained in good health. They should be regularly wormed to eliminate endoparasites.

Milk Sheep

Management

129. Milk sheep flocks are in many cases subjected to a more intensive system of husbandry than a conventional flock and will require especially vigilant stockmanship to ensure that their health and welfare are maintained.
130. Shepherds should be aware of specific problems relevant to milk sheep and the ways in which these may be avoided.
131. Some breeds of milk sheep appear to be especially susceptible to foot problems and these can be exacerbated by the husbandry methods under which the sheep are kept. The roadway, entrances and exits to buildings and fields should be well-maintained and kept as clean as possible.
132. Routine treatments to prevent foot problems should be adopted but care should be taken in the observance of withdrawal periods for any medicines used, particularly during lactation. Efforts to combat foot rot during the drying-off period are particularly important.
133. Milk sheep are naturally prolific and require particular attention to the level of nutrition provided during pregnancy and lactation.

Milking Practices

134. Special attention should be paid to milking techniques, the adjustment of milking equipment and dairy hygiene. Milking should take place at least daily,

on a regular basis, ensuring that ewes are not left with unrelieved, distended udders.

135. Before and after milking, hygiene measures should be adopted to reduce the spread of diseases of the mammary gland.
136. Good milking practices include careful handling, examination of foremilk and avoidance of excessive stripping.

Milking Parlours and Equipment

137. Pens, ramps, milking parlours and milking equipment should be properly designed, constructed and maintained to prevent injury and distress.
138. It is essential to ensure that milking machines are functioning correctly by carrying out proper maintenance and adjustment of vacuum levels, pulsation rates and ratios, taking account of the manufacturers' recommendations.

Appendix

Publications related to sheep welfare available from DEFRA

PB No.	Title
0409	<i>Code of Practice – The Welfare of Animals in Livestock Markets</i>
0621	<i>Farm Fires: Advice on Farm Animal Welfare</i>
1147	<i>Emergencies on Livestock Farms</i>
1149	<i>Lameness in Sheep</i>
1387	<i>Guidance on the Transport of Casualty Farm Animals</i>
1875	<i>Condition Scoring of Sheep</i>
2072	<i>Improving Lamb Survival</i>
2111	<i>Heat Stress in Sheep</i>
DEFRA / ADAS	<i>A planned approach to feeding the ewe – A guide to feeding in late pregnancy.</i>

The latest contact information for DEFRA can be obtained from their website – <http://www.defra.gov.uk>

Alternatively, contact the Island's Animal Health Division.

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Guidance on Manx legislation including notes on the Welfare of Livestock during Transport Order 1997 can also be obtained from Animal Health.



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