



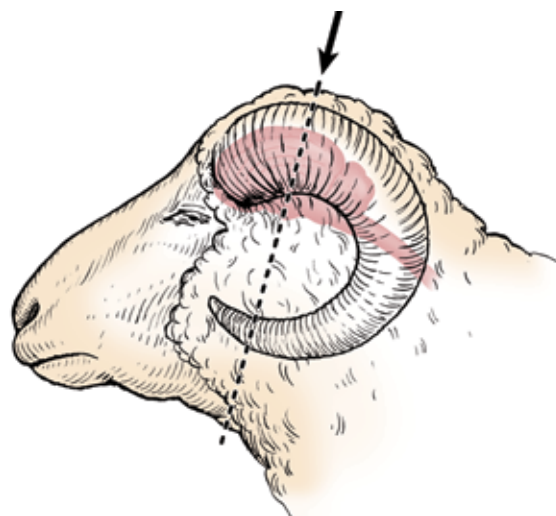
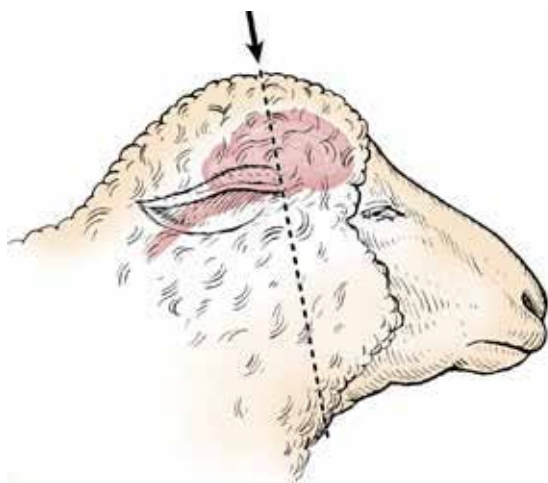
Euthanasia

Appendix L a: Anatomical Landmarks

Location of the brain within the skull of a mature sheep and the correct placement and direction of shot or captive bolt penetration for polled and horned sheep.

Not Between the Eyes!
— but slightly behind the poll or
on the top of the head

**Proper site in horned sheep is
behind the poll as shown**



In horned sheep and rams the top of the head may not be the ideal location because of the thickness of the skull in this region. Instead, an alternate position and orientation for penetrating captive bolt or gunshot in horned animals is on a line from the poll and aimed downward toward the back of the throat. An alternative position for placement of the penetrating captive bolt or firearm in horned animals is the front of the skull directing the bolt or bullet toward the spinal cord.

J.K. Shearer and A. Ramirez, Iowa State University, College of Veterinary Medicine. Reprinted with permission.

See: www.vetmed.iastate.edu/HumaneEuthanasia

Further reading resources for Euthanasia:

Shearer, J. K. 2013. Procedures for Humane Euthanasia Brochure. College of Veterinary Medicine, Iowa State University. Available at: www.vetmed.iastate.edu/HumaneEuthanasia

Ontario Sheep Marketing Agency production manual; Chapter 8 Flock Health and Deadstock.

Available at: www.ontariosheep.org/SHEEPPRODUCTIONINFO/Manuals.aspx

The Humane Slaughter Association out of the UK has some free and downloadable information as well as publications for order on their web-site www.hsa.org.uk/Information/Slaughter/Red%20Meat%20Slaughter.htm

Downloadable documents:

Captive bolt stunning of livestock - www.hsa.org.uk/Web/pages/captiveboltstunningdownload.pdf



Euthanasia (continued)

Appendix L b: Euthanasia Action Plan for Sheep and Goats

Work with your veterinarian to develop a euthanasia action plan appropriate for each species and stage of production on your farm. This plan should be kept in an obvious location in the barn. Review the plan with any new employees and annually with all staff and your veterinarian.

Farm Name: _____

Date: _____ Prepared by: _____

Phase of Production	Euthanasia Method	Alternative Method
Lambs and Kids		
Ewes and Does		
Rams and Bucks		

Important Telephone Numbers:

1. Veterinarian: _____

Phone: _____

After Hours/Emergency: _____

2. Transporter: _____

Phone: _____



Euthanasia (continued)

Appendix L b: Euthanasia Action Plan for Sheep and Goats

Methods of On-farm Euthanasia and their Considerations

Method		Human Safety	Animal Welfare	Skills Required	Cost	Other
Overdose by Barbiturate	Intravenous administration of a barbiturate	Restrain the animal	Excellent rating	Proper technique for intravenous injection	Veterinary fee	Can only be administered by licensed veterinarian
Penetrating Captive Bolt	Penetration of the skull and brain by captive bolt, followed with bleed-out by cutting all the main arteries and veins in the neck	Restrain the animal Be cautious of falling or thrashing animals	Good rating Correct cartridge strength, target site and penetration angle on animal is essential	Correct and safe use of captive bolt pistol Correct and safe use of sharp knife	Low - after purchase of captive bolt pistol	Results in some body movement Results in large volume of blood that requires proper disposal
Gunshot	Penetration of the skull and brain by bullet	Restrain the animal Be cautious of falling or thrashing animals Be extremely cautious about bullet ricochet	Good rating Correct size of firearm and ammunition and correct target site and penetration angle on animal is essential	Correct and safe use of firearm	Low – after purchase of firearm	Results in some body movement and blood Requires firearm acquisition certificate Local by-laws may prohibit the use of firearms

Last updated 2008