

LITTLE FORK
VOLUNTEER



LARGE ANIMAL
RESCUE TEAM

INTRODUCTION



IT CAN HAPPEN ANYWHERE

HORSES AND CATTLE ARE NOT
PEOPLE

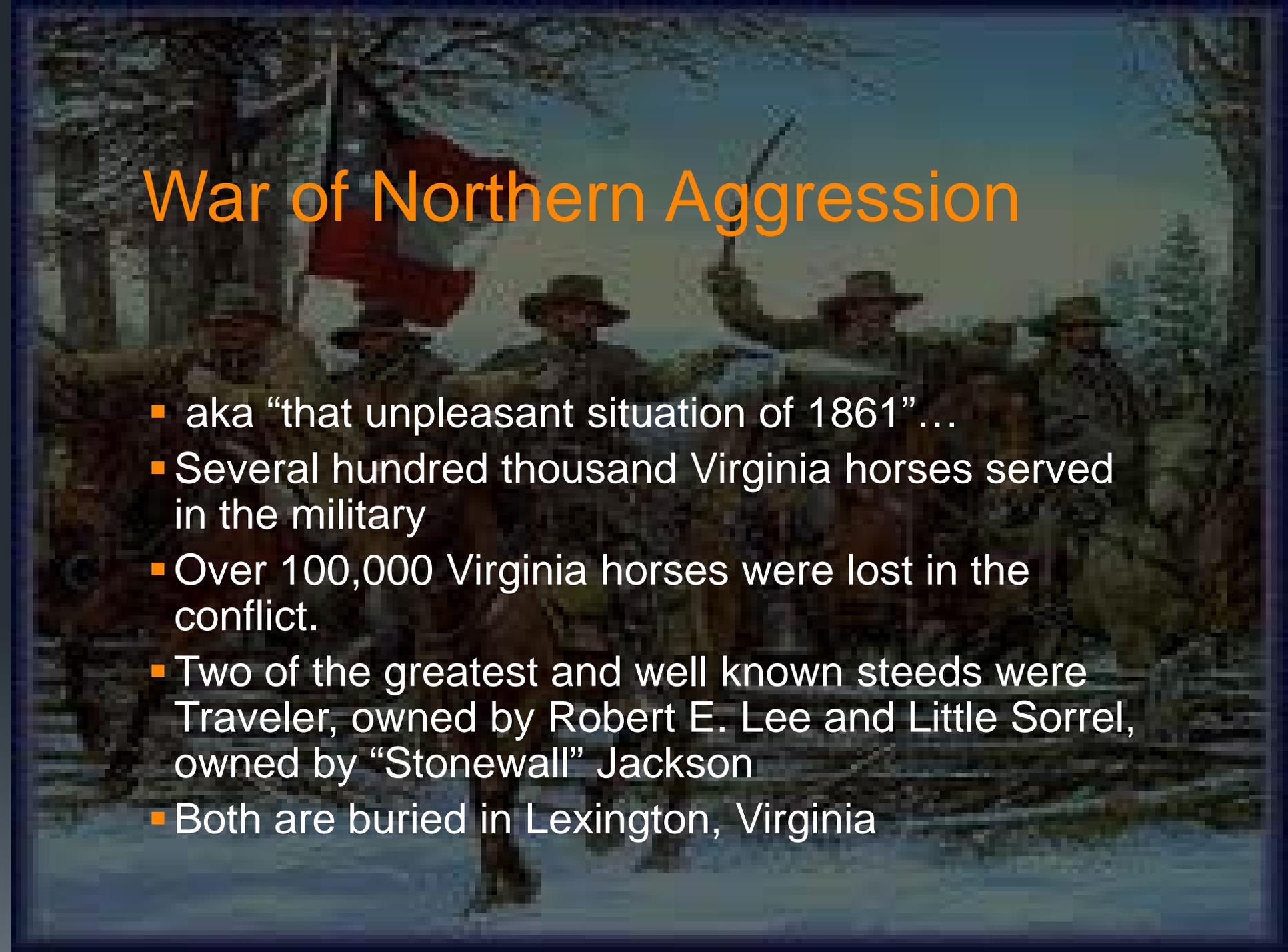
THIS IS SPECIALTY TRAINING AKA
TECHNICAL HEAVY RESCUE



Virginia Horse Industry

- 1610 First European Horses brought to the Virginia Colony
- They were bred with short stocky Indian horses, the beginning of the American Quarter Horse
- 1730 the first Thoroughbred was imported from England and bred with fastest Indian ponies, the beginning of the American Thoroughbreds

War of Northern Aggression



- aka “that unpleasant situation of 1861”...
- Several hundred thousand Virginia horses served in the military
- Over 100,000 Virginia horses were lost in the conflict.
- Two of the greatest and well known steeds were Traveler, owned by Robert E. Lee and Little Sorrel, owned by “Stonewall” Jackson
- Both are buried in Lexington, Virginia

- 
- Oldest Horseshow in USA is in Upperville, Virginia – Began in 1853
 - First American Quarter Horse races were held in Henrico County in 1674
 - 400 years of service contributing to Virginia's economic success and stability
 - In the past three decades, Virginia horse populations have rebounded, because of increased interest for use in recreational activities and sport.

Current Virginia Horse Industry

- The horse industry has an annual economic impact of \$1.2 billion and accounted for 16,091 jobs in 2010.
- Virginia horse owners spent \$55.2 million on equipment purchases, \$50.1 million on feed \$10.1 million on tack and \$5.3 million on grooming supplies
- The number of farms with horses climbed to 13,520 in 2007 from 10,972 in 1997
- The equine industry generated about \$65.3 million in state and local taxes in 2010
- Average value of a Virginia horse is \$39,130
- Average yearly spending \$4,060 per horse
- Estimated 215,000 horses in Virginia, we rank 12th in US

- 
- There were 1,200 horse shows and events in Virginia in 2010, generating \$25 million in revenue.
 - The estimated attendance of Virginia's horse shows and competitions in 2010 was 934,000, with nearly 46 percent of attendees drawn from the event's locality, 40 percent from elsewhere in Virginia and 14 percent from other states
 - Attendance at Colonial Downs in New Kent County during the thoroughbred and harness seasons was 74,000 in 2010, 10.6 percent from outside the state.

Excerpts from Equine Emergency Preparedness in Virginia Co-Op brochure –ARE YOU READY ???

Down/Trapped Horses *Horses can become down or trapped following natural disaster, accident, or illness. Ditches, sink holes, and septic tanks are potential hazards that you can have on your own property. If you find your horse in a situation where he is trapped, contact your local fire and rescue service and your veterinarian. While you are waiting for assistance, make sure there is access for people and equipment into the area.*

AND

Trailer accidents include overturned trailers or trailers being struck by another vehicle. Injuries to horses in trailer accidents can vary, even when overturned. Horses, being prey animals, will often struggle and panic when these accidents occur. However, some horses will be very quiet, resulting in less self-induced injury. In both situations, emergency personnel should be contacted first. They will be essential in scene control. Additionally, fire and rescue personnel have the skills and equipment necessary to extricate humans and animals from damaged trailers and vehicles.

What is TLAER???

- Technical Large Animal Emergency Rescue (TLAER) is not disaster medicine.
- TLAR does NOT refer to “rescue” of neglected, starving or abused animals
- It is the practical considerations behind the safe extrication of a live large animal from entrapments (loose on the road, upside down in ditches, stuck in mud, etc.) in local emergencies
- It is not a CART.....

CART – County or Community Animal Response Teams

- Animal Control
- Public Health
- Red Cross
- Fire Department
- Sheriff
- EMS
- Department of Agriculture
- Cooperative Extension
- Veterinarians
- Humane groups
- Farmers
- Lab animal facilities
- Pet boarder/sellers
- Pet owners
- Concerned citizens



Team, Plan, Train, Exercise, Deploy

TLAER is a Specialty Operation !!!!

- Normally 5-6 Hour Duration
- Numerous resources may be needed
 - Heavy earth movement equipment
 - Animal control officers
 - Heavy rescue equipment
 - Vets, law enforcement, fire and rescue
- Can be a confined space rescue
- THE MEDIA WILL BE THERE !!!!!
- ICS is essential

An animal emergency is a human emergency



NATURAL LAWS HAVE NO PITY



Deaths caused by bulls and cows:

2,334 deaths that occurred during the production of crops and animals in the U.S. between 2003 and 2007.

5%, or 108, involved cattle as either the primary or secondary cause, that's a yearly average of about **22 deaths caused by cattle.**

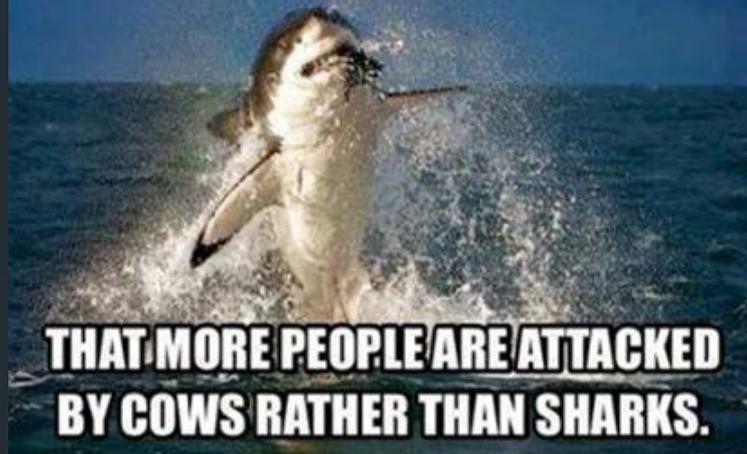
- Report published by the Centers for Disease Control and Prevention /U.S. Department of Health and Human Service.

Cattle Production in Virginia



- There are over 1,000,000 cattle in Virginia
- Milk is the third largest Virginia export
- Cattle are moved throughout the Commonwealth on a daily basis

DID YOU KNOW



**THAT MORE PEOPLE ARE ATTACKED
BY COWS RATHER THAN SHARKS.**



RUN

Analysis of the **National Electronic Injury Surveillance System** data in the US was performed by the **Equestrian Medical Safety Association** in 2007.

Of **78,279** horse-related injuries, fractures (28.5%); contusions/abrasions (28.3%); strains/sprains (14.5%); internal injury (8.1%); lacerations (5.7%); concussions (4.6%); dislocations (1.9%); and hematomas (1.2%).

Motorcycle riders average an injury once every 7,000 hours, while horse-related accidents occur once every 350 hours.

What can happen??



Horse trapped in a tree.

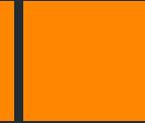


Photo Courtesy Anthony Hatch, NSW Fire Brigade



“911, I have a Horse Down!”

Andover, Massachusetts, Feb. 2011

TRAPPED IN ??????????????

September 25, 2014
Canada

A horse from Yorkshire has been rescued after being stuck down a hole for nearly 30 hours.

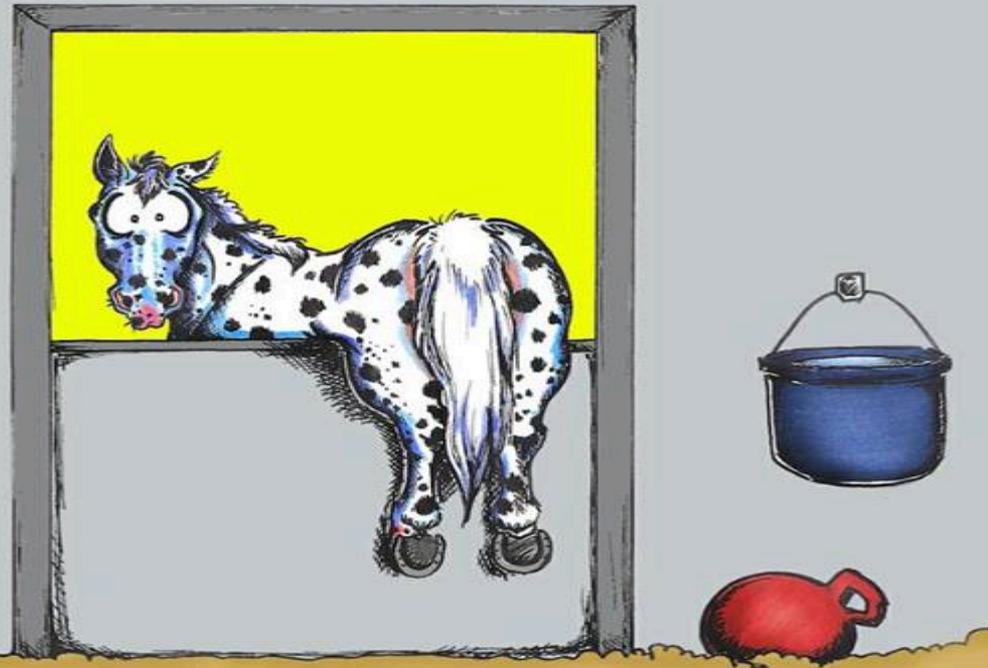


Horse Heaven



Horse: *noun*

1) A four legged mammal looking for an inconvenient place and an expensive way to die. Any day they choose not to execute the Master Plan is just more time to perfect it.



Margene Schmidt
© 2012

www.theideaoforder.com



Define “LARGE ANIMAL”





HOW NOT TO DO IT

- Unsafe procedures or equipment
- Poor communication with other agencies
- Minimal training in large animal handling, medical issues and **prey animal behavior**



2011 Photo Courtesy Henderson Times News

**UNSAFE
CONDITIONS**

**UNSAFE
PROCEDURE**

**POOR
JUDGEMENT**



Contra Costa Times

OPPOSITION REFLEX



Contra Costa Times

Incorrect – Diaphragm pressure will cause duress



Horse “Rescue” – Using the tail New Zealand





**WHO IS NOT IN THE
PROPER POSITION?**

Oregon Live Photo, 2011

SAFETY ZONES





There are better options for large animal containment...



**HAMPSHIRE
FIRE AND
RESCUE
SERVICE**

We make life safer



Sponsored by
Mercedes-Benz Unimog

Mercedes-Benz



**HAMPSHIRE
FIRE AND
RESCUE
SERVICE**

We make life safer





**When does An Emergency
Become A Disaster?**

Euthanasia



Mike Maloney

The BIGGEST obstacles are HUMAN FACTORS:

- FRANTIC, DISTRESSED
- OWNERS AND BYSTANDERS
 - “I know horses,.. I own /or use to own one.....”
- EMERGENCY RESPONSE PERSONNEL THAT ARE INEXPERIENCED IN LARGE ANIMAL RESCUE ASPECTS

Professionalism



2012 Courtesy Bill Bourne, MILTON Fire Rescue, GA

NFPA 1670

Chapter 17

Animal Technical Rescue

- Awareness Level
 - Recognized Need
 - ID Resources Necessary
 - Site Control and Scene Management
 - Containment; Portable Fencing, Cages, Traps
 - Recognize General Hazards and Mitigation Procedures
 - ID and Use of PPE for Animal Rescue Incident
 - Request Assistance to Determine Technical Rescue vs. Recovery
 - ID Special Equipment and Haz Mat considerations
 - Understand Political, Social and Public Safety Issues

NFPA 1670 Operations Level

- ID Needs and Implement Procedures for:
 - Risk Assessment
 - ID Body Posture Cues to Determine Animal Disposition
 - Create Improvised Restraint Device to Establish Control
 - ID Safe Attachment Points to Animal for Low Angle Extrication
 - Use of Harness, Leash, Webbing to Assist Low Angle Movement
 - Use of Animal Packaging Device or System for Low Angle Move
 - Perform Low/High Angle Lower and Raise
 - Recognize Need for Chemical Restraint
 - Alleviate Suction on Legs in Mud Rescue
 - Use Behavioral Clues for “Flight/Fight” and Know Tipping Points
 - Use of Containment Techniques for Greater Control
 - Operate Ladder to Gain Access Above and Below Grade
 - Perform Basic First Aid Using Appropriate Techniques
 - Utilize Auxiliary Equipment to Facilitate Safe Placement of Rescue Devices

NFPA 1670 Technician Level

- Organizations at this Level Shall Develop and Maintain Procedures for the Following:
 - Use designed and tested harnesses for High Angle usage
 - Perform high angle rescues
 - Using rope systems to move animals horizontally
 - Move animal in a sling system up and over edges
 - Understand animal behavior in a rope rescue system
 - Will implement procedures for cutting paths in ice rescue
 - Provide water rescue and use of sideways drag edge protection
 - Understand trailer extrication hazards – Confined Space
 - Perform Helicopter Rescue with tested lift equipment
 - Perform animal decontamination as a component of a rescue

TLAER Teams in USA

- States: KY, GA, VA, CA, MO, FL, SC, NC, ME, TX, CO
- FEMA USAR teams with TLAER training: 8
- Number of people trained in USA: Over 4,000
- Number of people trained in VA (OPS level) : 402
- Teams in other countries: France, UK, Australia, Germany, Switzerland

HAMPSHIRE FIRE & RESCUE SERVICE

ANIMAL RESCUE

SPECIALIST



Photos courtesy Sonya Hatch, NSW, Australia



SOUTHWEST RANCHES FIRE DEPT.

Emergency Response Team

ANIMAL RESCUE

*Funding & Support Provided by:
Sunshine Ranches H.O.A.
Past Fire Commissioner - Johnny Dollar*



Norco Fire Department
Norco, CA

Little Fork Volunteer Fire & Rescue Company Technical Large Animal Emergency Rescue Team



**LARGE ANIMAL
RESCUE TEAM**

Little Fork Volunteer Fire and Rescue Company

Technical Large Animal Emergency Rescue Team

We have 11 TLAER Volunteer Technicians

- All are either EMT or FF certified – most are both
- Trained as TLAER Technicians at the Va. Tech MARE Center in Middleburg, Virginia.
- All are ICS Certified.
- Covered by Workers Compensation and wrap-around insurance.
- Sovereign Immunity coverage.
- Command Officers minimally certified as Fire Officer I
- Dispatched by the Culpeper County 911 dispatch center.

Other components include:



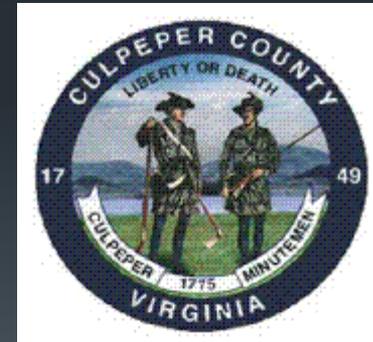
Old Waterloo Equine Clinic

Old Waterloo Equine Clinic (OWEC), based in central Fauquier County, Virginia, was founded in 1981. The practice now has three highly trained equine veterinarians and a clinic, surgery, and reproduction center serving the needs of Virginia horse country in Fauquier, Culpeper, Loudoun, Prince William, Stafford and Clarke counties and surrounding areas.

Culpeper County Animal Control

They have three officers that trained with our group!

Department of Animal Services
10144 James Monroe Highway
Culpeper VA 22701
(540) 547-4477



Code of Virginia

- § 3.2-6566. Preventing cruelty to animals; interference; penalty.

Each animal control officer, humane investigator or State Veterinarian's representative shall interfere to prevent the perpetration of any act of cruelty upon any animal in his presence. Any person who shall interfere with or obstruct or resist any humane investigator or State Veterinarian's representative in the discharge of his rights, powers, and duties as authorized and prescribed by law is guilty of a Class 4 misdemeanor.

- § 3.2-6570. Cruelty to animals; penalty.

A. Any person who: (i) overrides, overdrives, overloads, tortures, ill-treats, abandons, willfully inflicts inhumane injury or pain not connected with bona fide scientific or medical experimentation, or cruelly or unnecessarily beats, maims, mutilates, or kills any animal, whether belonging to himself or another; (ii) **deprives any animal of necessary food, drink, shelter or emergency veterinary treatment;** (iii) sores any equine for any purpose or administers drugs or medications to alter or mask such sores for the purpose of sale, show, or exhibition of any kind, unless such administration of drugs or medications is within the context of a veterinary client-patient relationship and solely for therapeutic purposes; (iv) **willfully sets on foot, instigates, engages in, or in any way furthers any act of cruelty to any animal;** (v) carries or causes to be carried by any vehicle, vessel or otherwise any animal in a cruel, brutal, or inhumane manner, so as to produce torture or unnecessary suffering; or (vi) causes any of the above things, or being the owner of such animal permits such acts to be done by another is guilty of a Class 1 misdemeanor.



Code of Virginia

- 8.01-225.2. Immunity for those rendering emergency care to animals.

Any person, including a person licensed to practice veterinary medicine, who in good faith and without compensation renders emergency care or treatment to an injured animal at the scene of an emergency or accident shall not be liable for any injuries to such animals resulting from the rendering of such care or treatment.

Technical Large Animal Emergency Rescue Team Training













EUREKA, MO
SEP. 5, 2006





EUREKA, MO
SEP. 5, 2006



Steve Reilly Photo, Oswego NY state trailer wreck.

Cows are different !!!

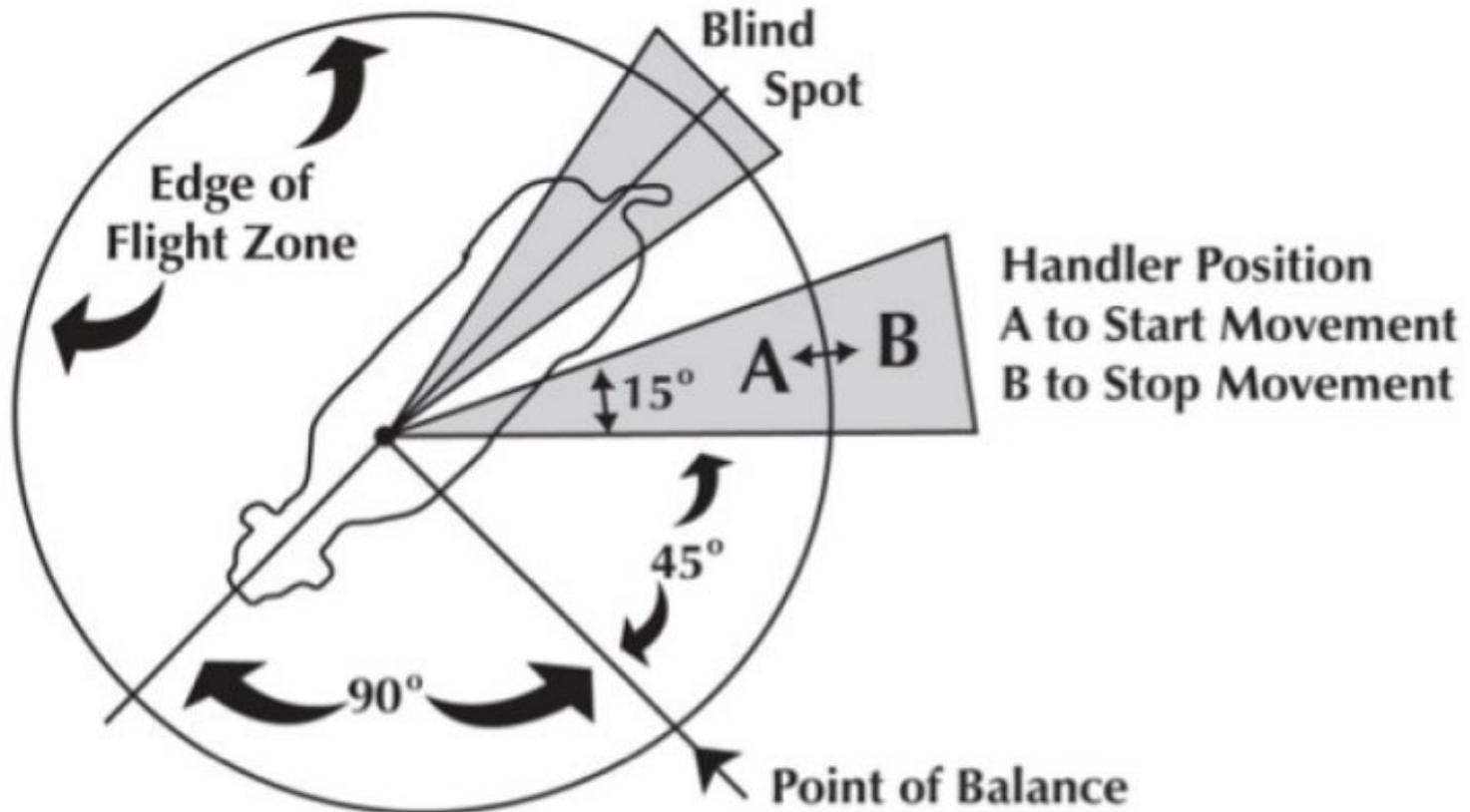


Figure 1. Flight zone

Taken from "The Cattle Industry's Guidelines for the Care and Handling of Cattle", National Cattlemen's Beef Association



Employing the Backwards Drag....

Courtesy of CPT John Fox, Felton Fire, CA



Safely lifted out of the canyon...

Sacramento Bee photo





Shaka Mayers Photo
Horse in a well

Horse in Mud – March, 2012

Geelong, Victoria State, Australia

Photos Peter Rivstevski, AP



PEOPLE can make
irrational decisions!!



Lebanon, OH Race Track Fire December 5, 2009



2 persons dead, 43 horses dead



Kent Sievers Photo - The World Herald
2012



Trailer destroyed, I-81 in VA, 2011





Horses from overturned semi corralled while awaiting transport.

May 2010

Photo by Paul B. Southerland, The Oklahoman



October 5, 2007
Chatham County, NC
Chatham County FD



October 5, 2007
Chatham County, NC
Chatham County FD





Photo Courtesy MERS, Eureka, MO 2011



Increasing Surface Area (Webbing instead of Ropes)



Pueblo County Sherriff's Office

Douglas County, NV Fire - Pool Rescue



Incorrect
method of a
pool “rescue”
in 2011



Ventura County Star Photos
October 2009

Vertical lift in
Dorsal
Recumbency.

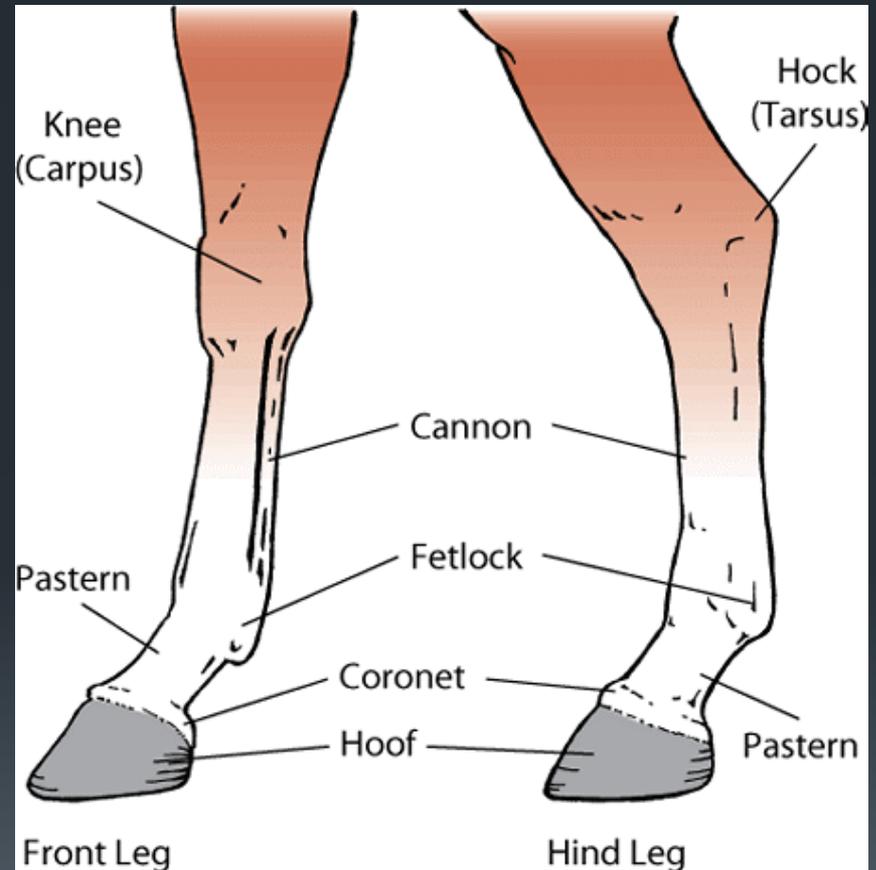
Using padding / and
webbing on
extremities.



Equine Legs are complex and easily injured

The upper part of the leg is heavily muscled, while the lower part acts as a springboard to enhance the stride

Have anatomical feature called the stay apparatus, which allows them to “rest” a rear leg while standing on the other 3 for prolonged periods. This is why horses can sleep standing up





Pasadena – Horse in Mud, 2011 Using Oxygen to Revive



**Baltimore, Maryland
April 2005
10 (TAME) Buffalo
from a Farm in
Baltimore County wandered
loose in the city**



I B S

internet broadcasting systems, inc.



Jefferson City, MO, Hwy 54
Trailer with 650 pigs

Oklahoma City, OK, I-40
Trailer with 800 baby pigs



SEP 19 2010

BIG-TIME TRAINING



Staff photo by Raul R. Rubiera

... of Maiden leads Arielle out of the water Sunday afternoon during an animal rescue training exercise.

By Nancy McCleary

Carolina — from Claremont to

**It WILL
Make the
Papers.**

Fayetteville lawyer Mark Waple is trying to stop two senior Army officers from making comments about special operations Marines under investigation for allegedly killing civilians in eastern Afghanistan.

Waple sent a letter Thursday to the Judge Advocate General of the Army asking the office to stop the officers from talking about the incident.

Comments made by Maj. Gen. Frank H. Kearney, commander of Special Operations Central Command, in April and Col. John Nicholson, commander of the 3rd Brigade, 10th Mountain Division, last week are influencing future jury members and witnesses, Waple said.

Always a Media event regardless of the animals size!!!!!!!





**It took 6
HOURS to get
this one out....**



Photo by Tori Miller, NC

20 minutes to remove this one...

Six Olympic horses killed, 4 burned / injured, 2 people injured

Media Influences



Channel 6 ABC, PA Photo

Two hours to Control, Eight Departments Responded



Channel 6 ABC, PA Photo



5-7 Minutes until Fire Department arrives



COURTESY OF LLOYD SCHULTZ, PIO, JOHNSON CREEK FIRE AND EMS



Texas Summer 2010 Flood Rescue



Overturned Horse Trailer, Davie, FL, 2010



Don Long Richmond Times-Dispatch

Courtesy of Don Long Richmond Times Dispatch

Wadsworth, IL October 27. 2007 6:50 PM
Possum belly trailer collision with pickup truck

59 young Belgian horses



© Rob Schreiner / NWPT Fire

NEWPORT TOWNSHIP
FIRE PROTECTION DISTRICT

PICTURES COURTESY OF LT. R.SCHREINER



Rob Schreiner / NWPT Fire

First horse removed at 8:26 PM
1 1/2 hours after 911 call

Combination of cutting tools used
Circular (cut-off) saws
Torches
Hydraulic cutters and spreaders
Air chisels
Reciprocating saws

NEWPORT TOWNSHIP
FIRE PROTECTION DISTRICT

PICTURES COURTESY OF LT. R.SCHREINER



PICTURES COURTESY OF LT. R. SCHREINER

RESPONDING UNITS INCLUDED:

13 FD units (including mutual aid and heavy rescue)

3 ambulances

Communications and Command vehicle

2 Fire Chiefs

2 Veterinarians on scene, 5 more at Vet clinics in area

2 Safety Officers

PIO

Metropolitan Emergency Supply Services

Lake County Mounted Posse

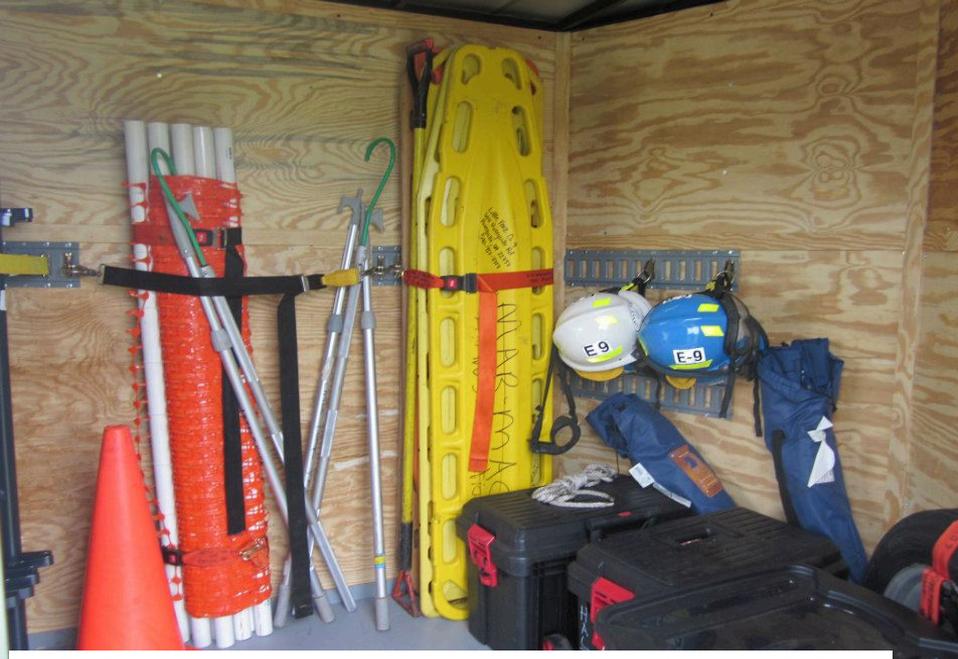
Local residents

Little Forks Technical Large Animal Rescue Team



Additional Apparatus and Equipment





ICS and Scene Control



5/10/11-LITTLE FORK MEMBERS WORK WITH AIRCARE CREW TO FLY OUT A FEMALE WHO WAS THROWN OFF A HORSE, THE HORSE LANDED ON HER ABDOMEN AND THEN IT STEPPED ON HER FACE. A LITTLE FORK LARGE ANIMAL RESCUE TEAM MEMBER WAS TASKED WITH CORRALLING THE HORSES THAT WERE OUT OF CONTROL IN THE RIDING RING WITH THE PATIENT



Warrenton, Virginia

October 31, 2012

**Cow trapped in a pool
(4 hour operation)**

- **Warrenton Volunteer Fire Company**
- **Fauquier County Sheriff's Office Animal Control Officers**
- **Veterinarian**
- **Little Fork TLAR**













If they see an opening during a rescue ---- Gone in .60 Seconds !!!!



August 8, 2013

Opal, Virginia

2 Hour Operation

- Warrenton VFC
- Fauquier County Sheriff's Office Animal Control
- Little Fork Volunteer Fire & Rescue Technical Large Animal Rescue Team



Martini was “cast” and had been in trapped since 0300 hours. Team activated at 0415 hours



After a size up our team vet
was called in to assist





February 26, 2014 11:15 Hours

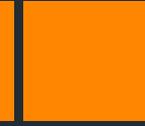
Cow Rescue

Rappahannock County





August 29, 2014 1703 hrs. Recumbent Horse in Field Lakota, Virginia





A man in a blue polo shirt and khaki pants stands on the far left, observing the scene.

A man in a light purple polo shirt, blue jeans, and a tan baseball cap stands with his arms crossed, watching the procedure.

A man in a white checkered shirt, dark pants, and a yellow fire helmet with "LITTLE ROCK" and "EMERGENCY" written on it. He is wearing yellow gloves and using a blue vertical tool on the horse's side.

A firefighter in a dark blue t-shirt, tan pants with black knee pads, and a yellow helmet with "LITTLE ROCK" on it. He is wearing yellow gloves and observing the horse.

A man in a black t-shirt and khaki shorts stands on the right, looking down at the horse. He has a watch on his left wrist.

A light brown horse with a grey halter lying on its side on a bed of dry grass and green grass. The horse appears to be sedated or unconscious.





Person in blue shirt looking at phone

Person in blue shirt and khaki pants

Person in purple shirt and jeans

Firefighter in black shirt and tan pants

Man in white shirt and dark pants

Firefighter in black shirt with text: 'GE ANIM CUE TEL CHN' and tan pants

Light-colored cow lying on the ground

Large white barn with a red roof and a wooden fence

Willow tree on the left side of the frame

















First Responder Actions

- Perform Scene Size Up – 360 degree –
- Obtain Animal Medical History
- Have owner notify vet - report to the scene
- Notify Local Animal Control Officer - report to the scene
- Do not enter into the hot zone
- Minimize noise, reduce stress to animal
- Control Owner, bystanders – “I know horses”
- Do not let owner coerce you into an unsafe, unplanned action
- Contact team via landline or radio and advise on:
 - Animal Condition
 - Accessibility
 - Available on scene staffing – include civilians
 - Method of entrapment
 - Paint a verbal picture of the entire scene
 - If lifting may be needed plan for machinery that can lift 1200 + #'s

Concepts that our team uses when working with livestock

- Watch animals' ears for warnings of impending responses to stimuli. Horses tip their ears toward whatever they're monitoring, an "ear radar" you can monitor.
- Animals tend to want to travel from dark to light (as from a dark barn toward the light of outdoors), they do not react well in a transition to blinding light
- Nonslip flooring is essential because animals get agitated when they begin to lose their footing
- Animals differentiate between screaming and yelling more than equipment noise.
- Never surprise an animal. Don't do hard pats.
- Slow, gradual movements are best.
- Factors impacting an animal's "flight zone"
 - Previous experience with handlers
 - Amount of contact with people
 - The quality of that contact
- Avoid making sudden, erratic silent movements.
- For the horse that becomes very agitated or fearful - Give it time to calm down

Case Study

Sunday Aug 17, 2014

Melissa was giving a lesson to a student. The student's knee caught a gate causing it to hit the horse on the bum.

The horse took off running and bucked the student off.

The horse was calm, had quiet soft eyes and ears and was not tense at all. Melissa got on to school the horse.

She trotted the horse back to the gate, turned into the gate - not a single sign of the horse being upset.

So she went to the gate to open it mounted as had been done 1000 times... last thing she remembers is lifting the gate latch to go out.....

**SIMPLE AND FAST AS THAT... THAT
CHANGED HER LIFE FOREVER.....**

This is Melissa Davis – September 17, 2014



WEAR YOUR PPE –
She was not wearing her
helmet!



Melissa and family are raising funds for her medical bills.....



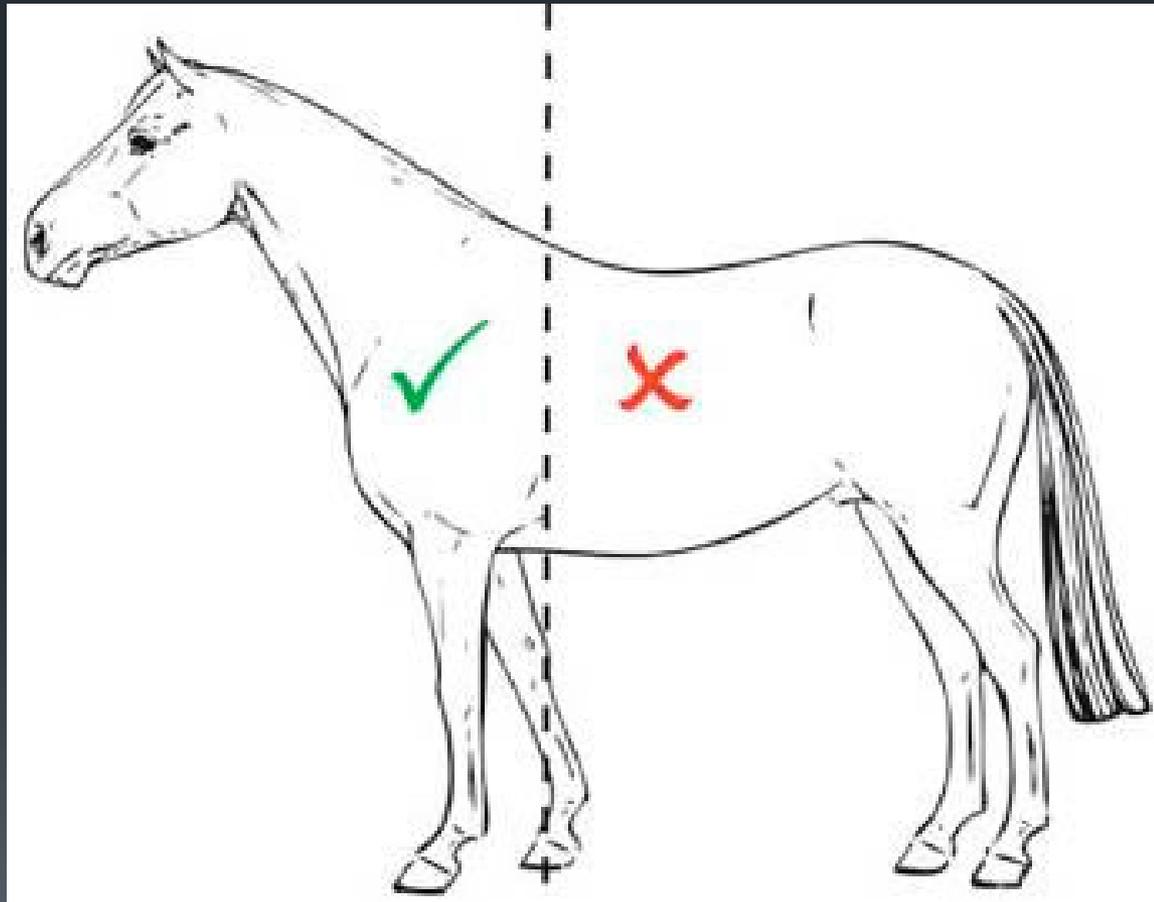
Techniques – TLAER Team not available – SAFETY FIRST!!



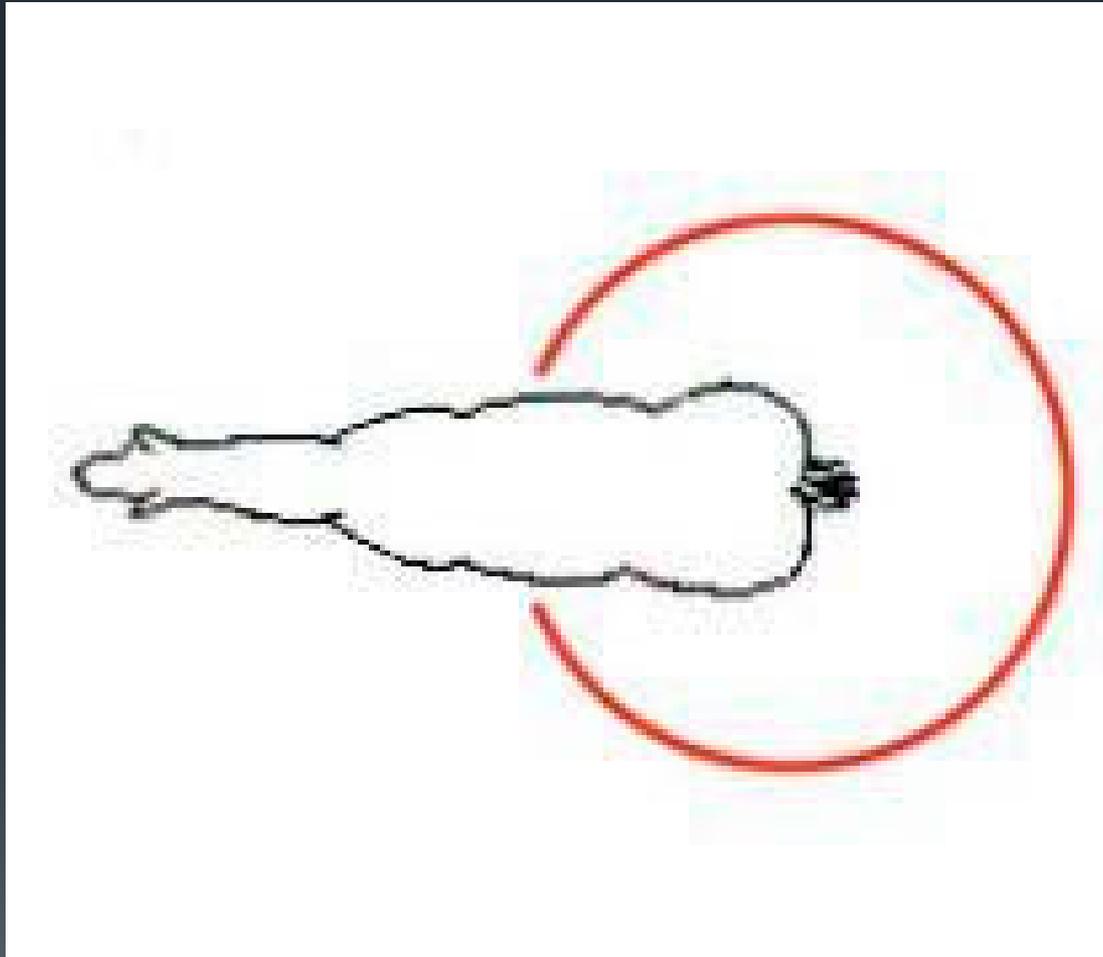
Animal Rescue Safety Zones



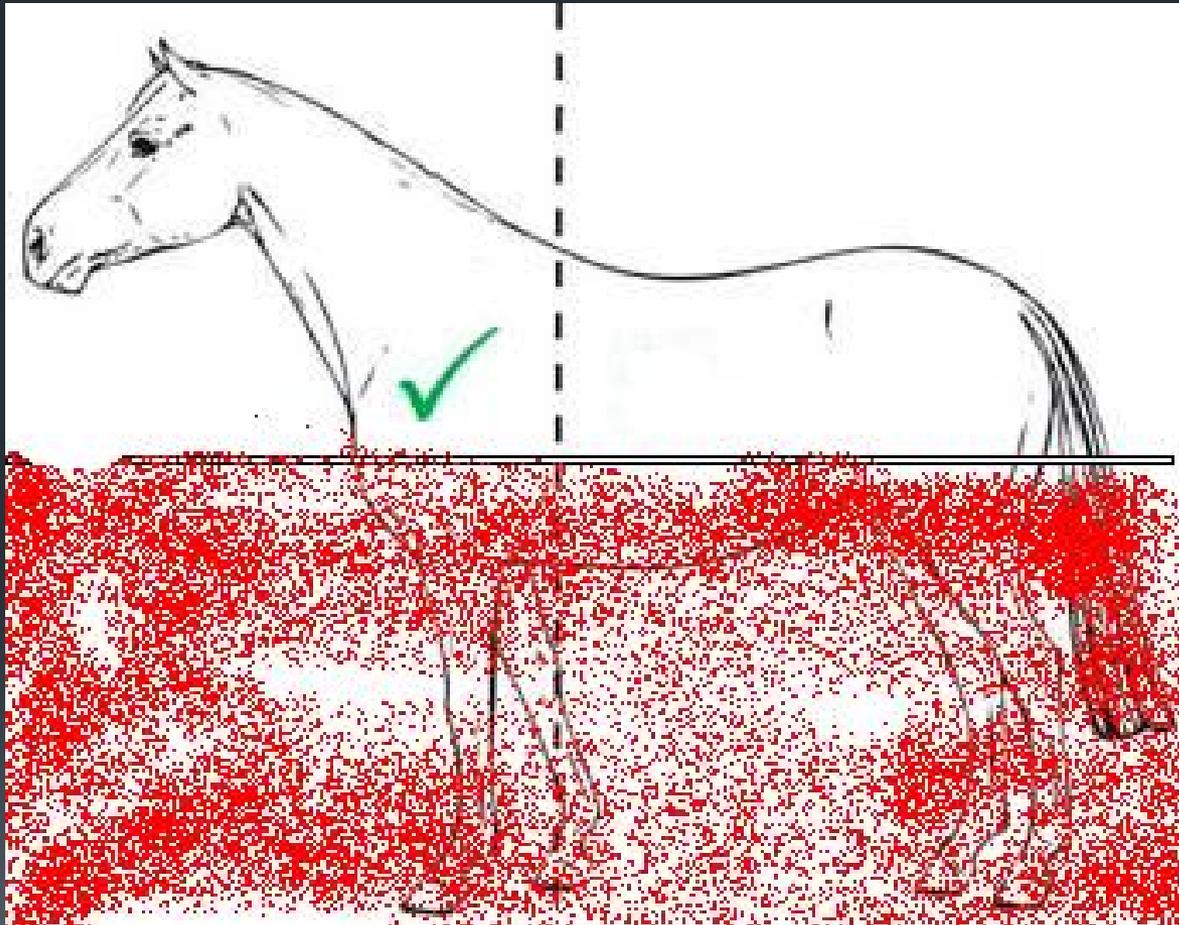
Point of Balance Kick Zone



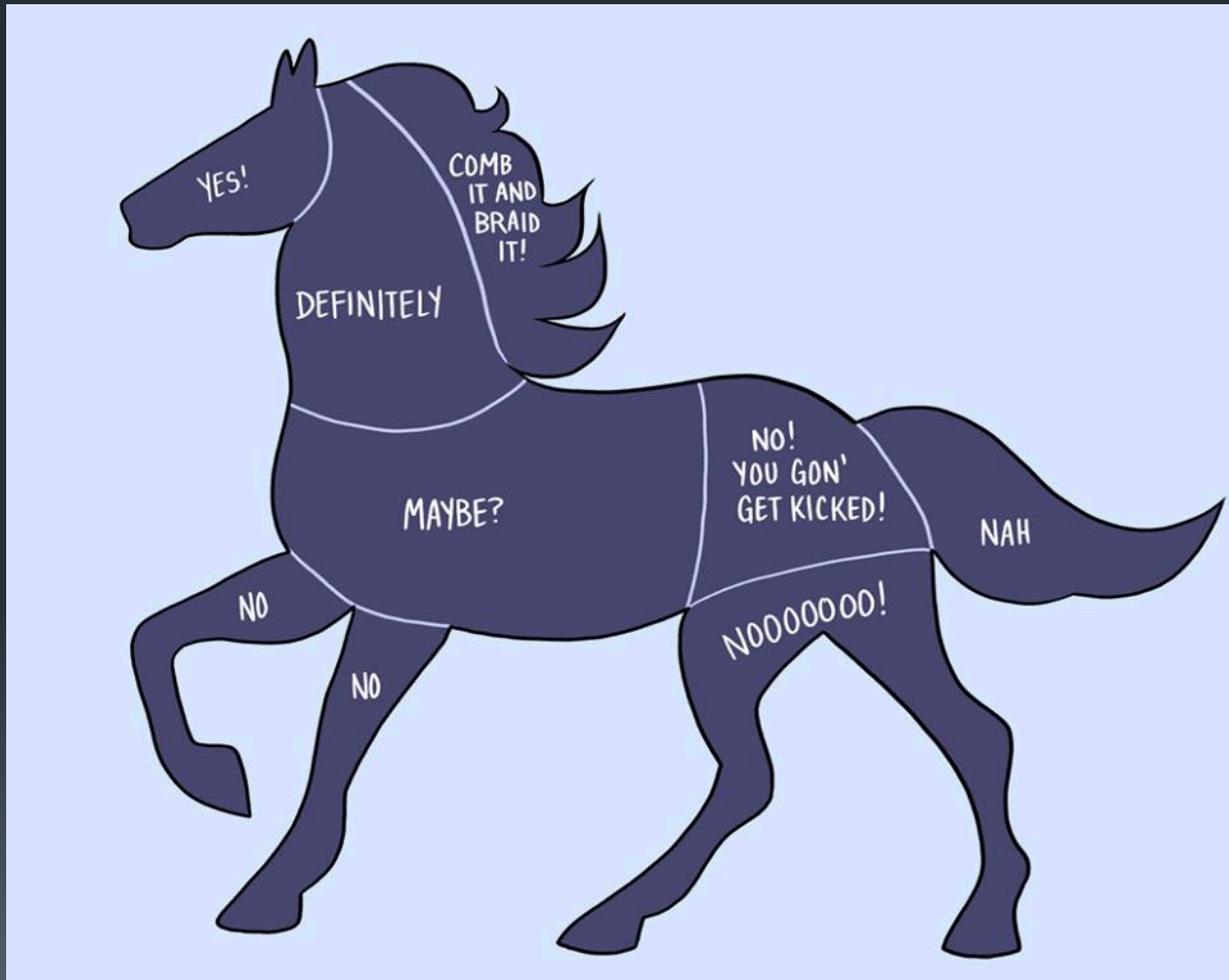
Kick Zone



Recumbent Horse Safety Zone



Where to touch??



INHERENT DANGER OF LARGE ANIMALS

People who work with large animals must realize that it is impossible to make horse or cattle handling completely safe

A well trained, normally calm horse or cow can spook unexpectedly

**The risk can never be
totally eliminated**

**ANIMALS are
INDIVIDUALS!**



UNPREDICTABLE!

THANK YOU !!!!

“Dedicated to man and animal alike”



**LARGE ANIMAL
RESCUE TEAM**