

NIAA ID Expo

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National Animal ID?



Colorado Equine Identification Project

Midwest Research Institute

- Founded in 1944 in Kansas City by civic leaders
- Independent – MRI provides unbiased scientific results.
- Science and Technology – Government and industrial clients contract with MRI for scientific expertise.
- Manages Department of Energy National Renewable Energy Labs (NREL)
- Not-for-profit 501(c)3 status
- Elected Board of Directors and Board of Trustees govern the Institute.

Lab Coats and More



- Approximately 1,700 scientists, technicians, and administrative professionals, with 40 percent holding advanced degrees
- National experts in bio/chem defense, agriculture and food safety, transportation engineering, air sampling and monitoring, and other fields
- Numerous patents awarded to staff

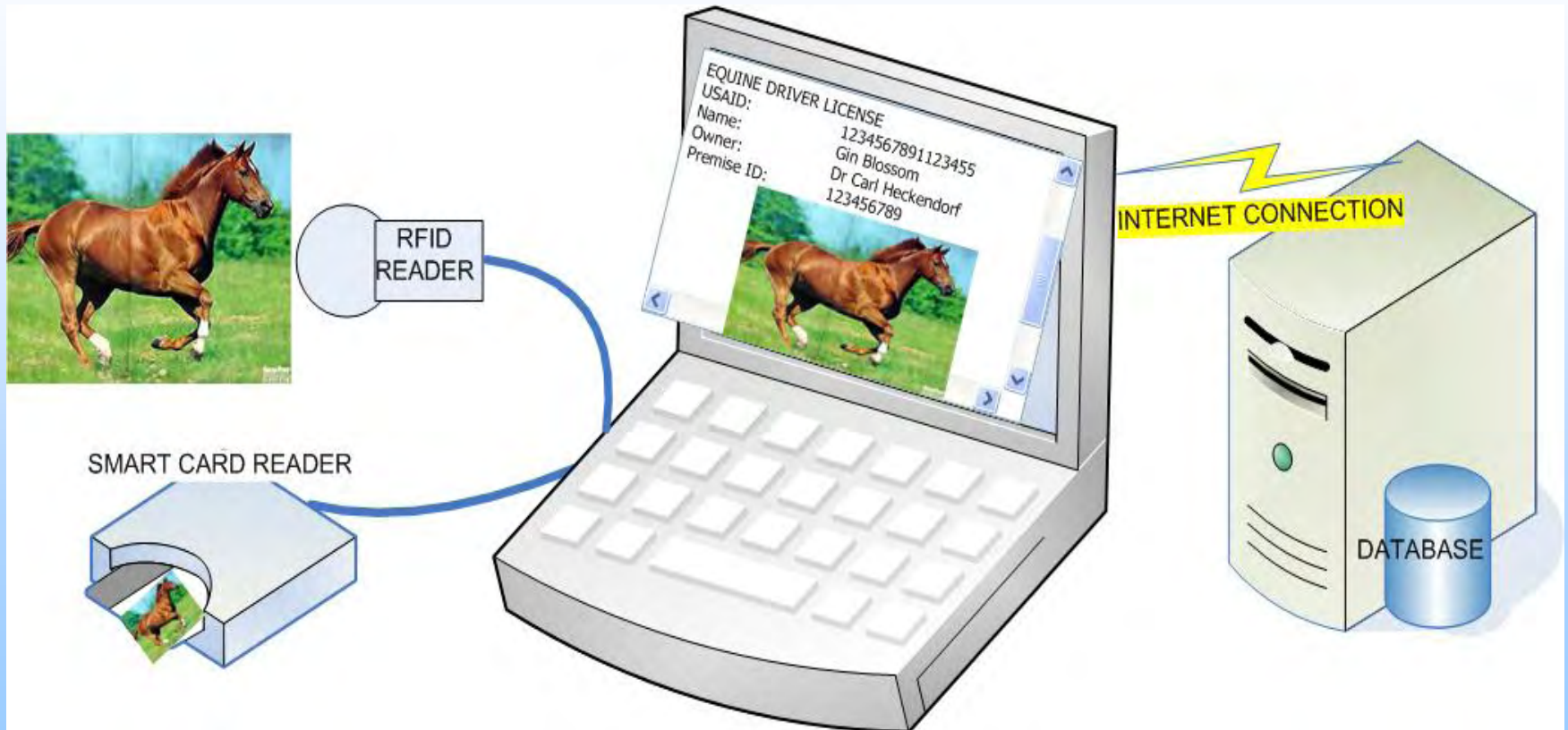
ID Procedures

- Up to 1000 horses will be selected for identification with an RFID chip
- GPS coordinates will be read when device is applied
- When the horses are moved they will be read for identification and GPS coordinates

Species Identification Methods

- RFID, 11784 and 11785, microchip will be injected into the left side of the horse in the middle 1/3 of the neck, approximately 4 cm below the long hairs of the mane into the ligament nuchea
- Smart Card (Equine “Driver’s License”)

Equine “Driver’s License”



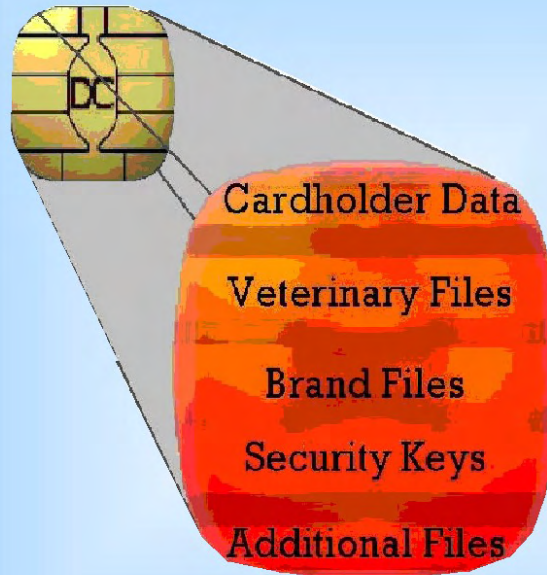
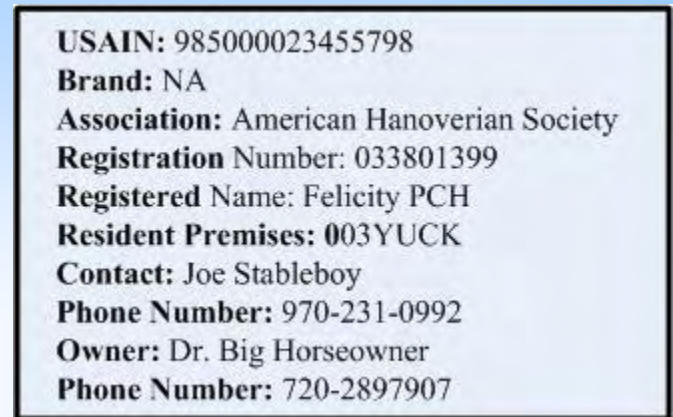
RFID Interface

- Application supports 134.2Khz (ISO 11784/11785) and 125KHz RFID chips
- Designed to support multiple RFID readers
- Installation Configuration options to select the user's RFID reader
- Automatically reads the animal ID from the RFID reader

Front

Smart Card

Back



Smart Card System

- Smart Card has snapshot of data in central database
- Smart card is updated via internet connection by authorized users
- User authorization based on credential validation via central database

Horse “Driver’s License”

- USAIN
- Breed
- Gender
- DOB
- Registration Number
- Registered Name
- Owner
- Owner Contact Information
- Premises ID
- Premises Name
- Premises Contact Information
- Brand/s
- Markings
- Health Certificate # (Date & Who)
- Test Results (Date & Who)

Creation of a Card

written information never rewritable

- USAIN
- Breed
- Registration Number
- Name
- DOB
- Gender ?
- Owner ?
- Premises ?
- Phone Number ?
- Smart card printer at centralized locations- Similar to Driver's license office
- State organization or breed association/brand inspectors will issue first card (Initially the State Veterinarian's Office)

State of Colorado

Department of Agriculture

Animal ID

985000023455798

Date 07-31-2005

Name

Happy

Breed

Gender

Stallion

Color

Date of Birth

01-01-2001

Owner Name

Happy's Owner

Premises ID

1234556789

Owner Address

101 Somewhere Road
Someplace, CO

Premise Address

101 Somewhere Road
Someplace, CO

Contact Info

555-123-1234

Health Certificate

YES

Coggins

NO

Brand Certificate

YES

Date Tested

07-31-2005

07-31-2004

07-31-2005



ANIMAL IDENTIFICATION

Animal ID

985000023455798

Name

Happy

Gender

Stallion

Breed

Color

Date of Birth

01-01-2001

Lip Tattoo

Number of Brands

Primary Band Location

AID Location





Animal ID

985000023455798

Date 07-31-2005

Name

Happy

Breed

Gender

Stallion

Color

Date of Birth

01-01-2001

Owner Name

Happy's Owner

Premises ID

1234556789

Owner Address

101 Somewhere Road
Someplace, CO

Premise Address

101 Somewhere Road
Someplace, CO

Contact Info

555-123-1234

Health Certificate

YES

Coggins

NO

Brand Certificate

YES

Date Tested

07-31-2005

07-31-2004

07-31-2005



PREMISE INFORMATION

Animal ID

985000023455798

Premises Name

Premise Latitude

Premises ID

1234556789

Premise Longitude

Premise Address

101 Somewhere Road
Someplace, CO

Primary Contact

Date
Activated

01-01-2001

Primary Contact Phone

Alternate Contact

Alternate Contact Phone

Premise Primary Species

Premise Additional
Species



Animal ID

985000023455798

Date 07-31-2005

Name

Happy

Breed

Gender

Stallion

Color

Date of Birth

01-01-2001

Owner Name

Happy's Owner

Premises ID

1234556789

Owner Address

101 Somewhere Road
Someplace, CO

Premise Address

101 Somewhere Road
Someplace, CO

Contact Info

555-123-1234

Health Certificate

YES

Coggins

NO

Brand Certificate

YES

Date Tested

07-31-2005

07-31-2004

07-31-2005



HEALTH CERTIFICATE

Animal ID

985000023455798

Consignor

Name	Happy's Owner
Address	101 Somewhere Road Someplace, CO
Phone	555-123-1234

Consignee

Name	Happy's Owner
Address	101 Somewhere Road Someplace, CO
Phone	555-123-1234

Health Certificate Number

Health Certificate Test For

INITIAL TEST SHOW EXPORT
 RETEST SALE IMPORT

Sampling Premises ID

Lab Code

Lab Date Issued

Test Results

Test Results Date

Vet License Number

Permit Number

Phone

Sample Date

Sample by

User Interface

STATE OF COLORADO EQUINE DRIVER LICENSE



Animal ID

Date

Name

Breed

Gender

Color

Date of Birth

Owner Name

Premises ID

Owner Address

Premise Address

Contact Info

Health Certificate

Coggins

Brand Certificate

Date Tested

USE TYPEWRITER OR PRINT CLEARLY - PRESS HARD - YOU ARE MAKING 5 COPIES

See reverse for more OMB information.

FORM APPROVED - OMB NUMBER 0575 - 0177

 U.S. DEPARTMENT OF AGRICULTURE
 ANIMAL AND PLANT HEALTH INSPECTION SERVICE
EQUINE INFECTIOUS ANEMIA LABORATORY TEST
 (VS Memorandum 000.0)

SERIAL NO.

B 1495564

1. ACCESSION NUMBER

2. DATE BLOOD
DRAWN

Forms Without Adequate Descriptions Of The Horse and Complete Addresses Including Zip Codes, Counties, and Telephone Numbers Will Not Be Processed.

3. REASON FOR TESTING <input type="checkbox"/> Market <input type="checkbox"/> Change of Ownership <input type="checkbox"/> Show <input type="checkbox"/> Final Test <input type="checkbox"/> Retired <input type="checkbox"/> Export		7. NAME AND ADDRESS OR STABLE/MARKET (Please print or type)	
4. GEOGRAPHIC INFORMATION SYSTEMS (GIS) (0-999999)		8. NAME AND ADDRESS OF OWNER (Please print or type)	
5. VETERINARY LICENSE OR ACCREDITATION NO.		9. NAME AND ADDRESS OF VETERINARIAN (Please print or type)	
6. TEST TYPE <input type="checkbox"/> AGID <input type="checkbox"/> ELISA		Tel No. _____ Zip Code _____ County _____	
Tel No. _____ Zip Code _____ County _____		Tel No. _____ Zip Code _____ County _____	

CERTIFICATION OF FEDERALLY ACCREDITED VETERINARIAN

I certify the specimen submitted with this Form was drawn by me from the horse described below on the date indicated above.

10. SIGNATURE OF FEDERALLY ACCREDITED VETERINARIAN	11. TYPE OR PRINT SIGNATURE NAME	12. SIGNATURE DATE
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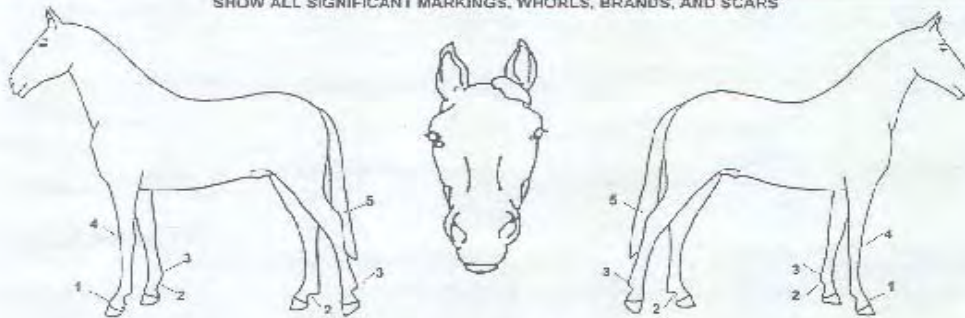
CERTIFICATION OF OWNER OR OWNER'S AGENT

I certify that I have examined this form and, to the best of my knowledge and belief, this form is true, correct and complete.

13. SIGNATURE OF OWNER OR OWNER'S AGENT	14. TYPE OR PRINT SIGNATURE NAME	15. SIGNATURE DATE
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16. Tube No.	17. Official Tap No.	18. Tattoo/Brand	19. Name of Horse	20. Color	21. Breed	22. Electronic I.D. No.	23. Age or DOB	24. Sex	25. Male F - Female G - Gelding N - Neuter
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SHOW ALL SIGNIFICANT MARKINGS, WHORLS, BRANDS, AND SCARS



1 - Coronet, 2 - Pastern, 3 - Fetlock, 4 - Knees, 5 - Hock

NARRATIVE DESCRIPTION AND REMARKS

26. HEAD	26. OTHER MARKS AND BRANDS
27. LEFT FORELIMB	26. RIGHT FORELIMB
28. LEFT HINDLIMB	26. RIGHT HINDLIMB

FOR LABORATORY USE ONLY

31. LABORATORY NAME/CITY/STATE	32. DATE RECEIVED	33. DATE REPORTED OUT	34. TEST RESULTS <input type="checkbox"/> Negative <input type="checkbox"/> Positive <input type="checkbox"/> AGID <input type="checkbox"/> ELISA
34. SIGNATURE OF TECHNICIAN		35. REMARKS	

Falsification of this form or knowingly using a falsified form is a criminal offense and may result in a fine of not more than \$10,000 or imprisonment for not more than 5 years or both (U.S.C. Section 1001).

Device Reading Technology

- Blue tooth wireless technology
- Smart Card technology
- PDA and Tablet PC
- Lap top and Desk top computers
- Thumb Drives

Information that is written by authorized user or users and is always accessible. There are different levels of authorized users: State Veterinarians, Accredited Veterinarians, Brand Inspectors, and breed organizations.

Written and Accessible Information

1. Health Certificates
2. Primary veterinarian
3. Test Results ie. Coggins Test
4. Brand Certificate
5. Brand and Location of brand
6. Markings and color
7. Premises over last six months
8. Primary Contact
9. Contact information
10. Owner
11. Breed registry information

Writeable by vet

1,2,3,6,7,8,9,10,

Writeable by Brand

Inspector 4,5,6,7,8,9,10

Writeable by breed registry

6,7,8,9,10,11

Readable and Writeable

- General Mannerisms
- Rations
- Non-diagnosed health concerns
- Farrier Information
- Achievements
- Other information

Updates and Data Management

- Brand inspectors will update brand information
- Veterinarians will update health information
- Owners will have the ability to update certain information
- Breed Registry information
- RMS will maintain the database

Current Problems

-Positive equine identification

**-Up to date health and brand
inspection verification**

**-Tracking inter- and intrastate
movement**

Applications

-Port of entry

-Show entry

-National Western

-State Fair

-Sales

-Other



**-Small portable reader
provides "pass" or "fail"
information**

- * Stolen animal**
- * Unhealthy animal**
- * Outdated information**
- * Etc.**

**-Useful for events, traveling
officials, etc.**

Data Access

-Internet database access

- * Horse health history**
- * Previous and current owner history**
- * Registry information (optional)**
 - ID number**
 - DNA typing**
 - Show record**
- * Biometric (optional)**

**-Useful for any total
record recall that is
necessary**



SMART CARD

Three potential uses

1. Horse “Driver’s License”
2. Premises Card
3. Transportation Card

Legal Authority

- **35-50-105. Powers and duties of the commissioner.**
- (3) The commissioner may adopt, subject to the commission's approval, all reasonable rules for the administration and enforcement of this article including, but not limited to:
 - (j) The standards and requirements for identification and traceability of livestock;

Change can be good



paard[1]