

WorldFengur

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1 Introduction

WorldFengur is a computer program on the Internet, which opens access to a database containing information on Icelandic horses in the membership countries of the FEIF.

WorldFengur is a joint effort by the Farmers Association of Iceland (FAIC) and FEIF to construct a central database on horses of Icelandic origin. To start with, this database contains only the database from FAIC called FENGUR. But gradually, horses exported from Iceland will be entered in the database, together with their descendents. In this way, a database to be called WorldFengur common to all the FEIF countries will be built up.

FAIC has worked on the creation of the computer program and the database in the year 2000, and is the owner and administrator of the system. The data will however be the joint property of the countries which join as subscribers, and which enter data.

Although there will in reality be one and only one database, each individual country will own and be responsible for its part in the database.

This is illustrated in Picture 1. The WorldFengur database is the large circle. Within each sector are then listed the horses born or resident in the respective country. Ownership, responsibility, management and access control are divided between the countries on these sections of the database. Denmark thus for instance manages its sector, and is responsible for assuring that registrations are in agreement with the rules. This may be compared a bit to border control between countries, where supervision of an individual moves between countries as he moves between them.



WorldFengur is developed using JDeveloper tools from Oracle. The database is in Oracle 8i base. JDeveloper is a fairly recent development tool, which makes it possible to construct a computer system on the Internet, such that the only item needed to access the system is a web browser and a connection to the Internet. The users have direct access to the central database – WorldFengur. Any changes of data will appear instantaneously to all users, wherever they are in the world. And similarly, as all users are working in one centralized database, they are all using the latest version of the system, since WorldFengur is automatically updated on the Internet. The users need only know the proper URL for WorldFengur, and have their username and password in order to be able to use the system. The users need not waste any time on complicated and time consuming updates of program or data, or taking backups of data.

WorldFengur is a new computer system, offering technology using the tremendous revolution in communications, which the Internet offers. Still, new technologies do have their teething problems, which have to be solved. We hope this will not be much of a problem, but it is still important that users show understanding and patience in the first years of WorldFengur.

2 Glossary

When reading this manual it is important that the concepts in this chapter are understood and remembered.

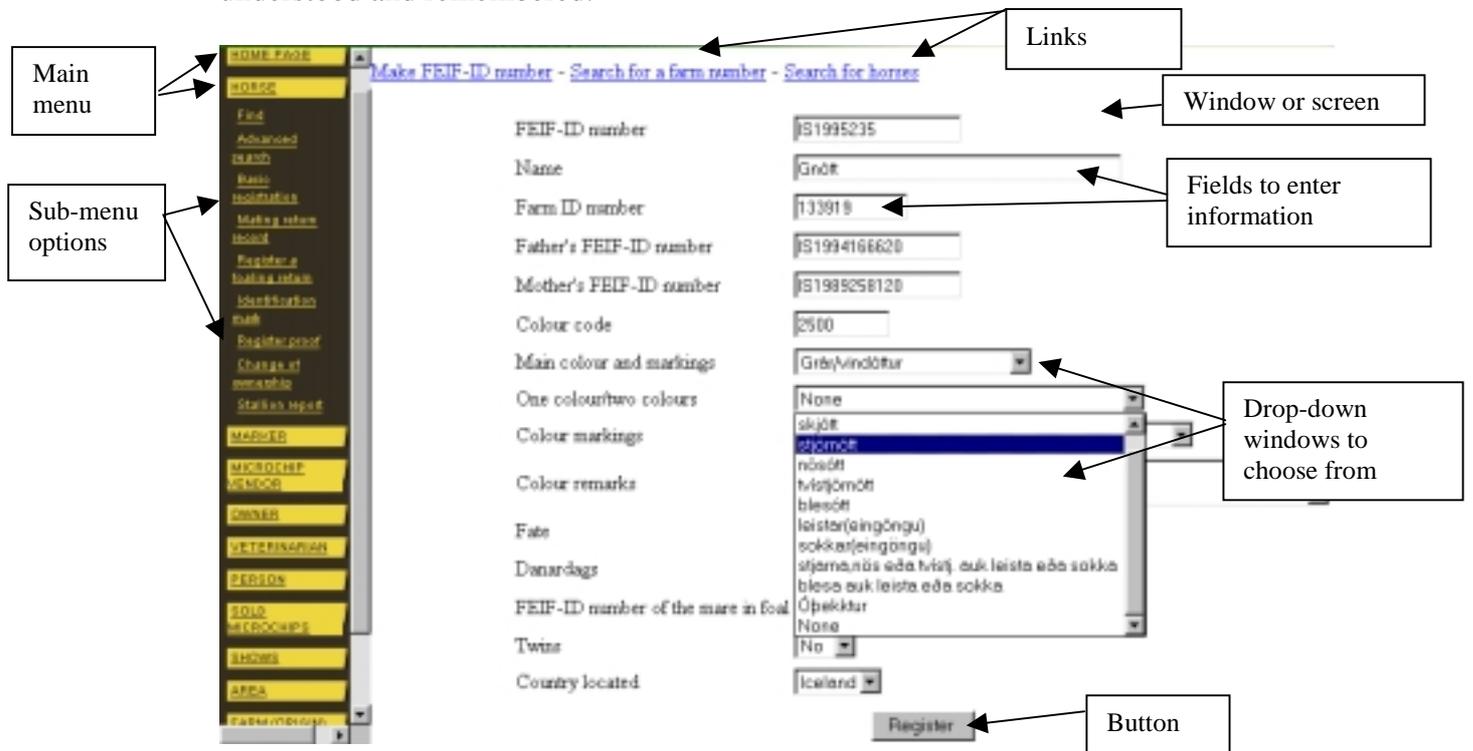


Figure 1. Glossary

When reading this manual it is necessary to understand what the concepts in figure 1 mean since they are used to a considerable degree in the system.

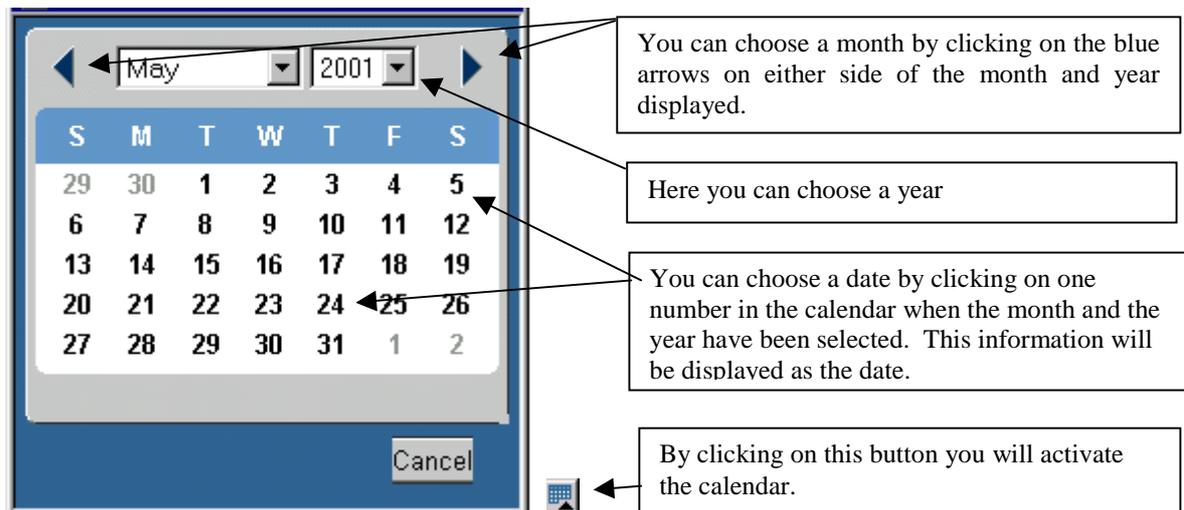


Figure 2. Instructions on how to use the calendar when choosing a date

It is possible to activate a calendar in some of the windows. When using the calendar the date selected will automatically be used in the field for date.

3 Entering information in the database

3.1 Construction and explanations of numbers

It is necessary to start by commenting a little on the numbers, which are used in the reports on horse breeding, as they are very important for the design of the WorldFengur database. In preparing for registration in WorldFengur, one must find FEIF-ID numbers for all horses. In order to construct a valid FEIF-ID number for a horse, one must have country of birth, the year of birth, gender and area number where the horse was born (optional). In order to register a horse, one must also know its origin and the FEIF-ID numbers of the parents of the horse. If the year of birth is not known, it is possible to have WorldFengur construct a so called Fengurnumber, but still, one must have an area number within the country in order to make the registration more decisive.

3.1.1 FEIF-ID number

The FEIF-ID number is a key number for all horses, which are to be entered in the database. FEIF has accepted to use a standardized system of numbers for the registration of horses taking part in FEIF breeding shows. An 8- digit FEIF-ID number was originally used in Iceland, but as of the year 2000 a code for the country of birth and the full year of birth was added in front of the original 8-digit code. The current FEIF-ID number thus consists of 12 letters: [Country of birth][Year of birth][Sex][Area][Permanent number].

Example 1. An example on a FEIF-ID number

A mare, born in Iceland in 1964, property of an owner living in area 85, having the permanent number sequence 330-340, would get the FEIF-ID number [IS][1964][2][85][330] or IS1964285330.

The numbering system used may vary from one country to another. Such numbers can still be entered in the database, just as any other information, but the horse must still get a legal FEIF-ID number, in accordance with FEIF regulations.

3.1.2 Number of origin (farm)

In the Fengur Database, the number of origin plays an important role. Every horse entered in the database must have a number of origin, designating the origin of the horse. This number is also entered in the information about horse owners. In WorldFengur and this manual an origin is equal to a farm. WorldFengur stores information about each origin, such as the proper name, and in which area within the country the place of origin is. Areas get specific numbers, to be used when the FEIF-ID number is assigned. Several breeders can have the same origin and area number. (See Example 2).

Example 2. An example on an origin number

Sveinn Guðmundsson, the well-known horse breeder in Sauðárkrókur is registered in area 57 in Iceland, and is assigned the permanent number range 000-009. This means, that all horses, which he breeds, will be assigned a FEIF-ID number in the range ISxxxxx57000-ISxxxxx57009. The origin (farm) number for Sauðárkrókur is 570000, and breeders wishing to identify their horses as being from Sauðárkrókur do have the number 570000. Notice that it is not usual that the first 2 digits is the same as the area number where the farm is located. For instance the origin number for horses from Kirkjubær is 164256, and Kirkjubær is located in area 86.

3.1.3 Area number

The area number is a part of the FEIF-ID number. The area number refers to a certain part of a country, in Iceland for instance to a specific county. The area number is connected to the country code. In Iceland the area number is also connected to the permanent number system, where each breeder within the area is assigned a specific range of numbers.

3.1.4 Identification number

All persons born in Iceland are assigned a personal number at birth. This number is a unique number, which must be entered in WorldFengur for each and every horse owner in Iceland. Other countries may use a different kind of ID, but each owner must be assigned a unique number within the WorldFengur database.

3.1.5 Permanent number

A range of permanent numbers must be issued to each breeder within each area in each country (optional). This permanent number is used when assigning numbers to foals.

3.1.6 Colour number

The colour number is a 4-digit code. It consists of three parts: Primary colour, colour variation and colour feature. The Colour number specifies to colour of the horse. Its use is optional. See also the colour tables.

3.2 Explanation of other terms

3.2.1 Breeder

The breeder of the horse is the person that owned it when it was born. In most cases this person also owns the mother of the horse but this is not necessary e.g. the mare has been borrowed to breed from.

3.2.2 *Records on all horses in a show*

This is a list with information on all the horses registered to participate in the breeding show. The horses are grouped by age and sex, where the oldest stallions are listed first. Within each group the horses are then listed in alphabetical order. Example 3 shows the information that appears in this list.

Example 3 Information on a horse in a show record

IS1994165520 Ómur from Brún
Microchip: 985100006388830
Colour: 3500 Jarpur/milli- einlitt ekkert auðkenni
Breeder(s): Matthías Eiðsson
Owner(s): Hermína Ósk Valgarðsdóttir, Matthías Eiðsson
F: IS1986157700 Kveikur from Miðsitju
Ff: IS1973157005 Gustur from Sauðárkróki
Fm: IS1969257791 Perla from Reykjum
M: IS1981265031 Ósk from Brún
Mf: IS1974158602 Ófeigur from Flugumýri
Mm: IS1975265661 Hekla from Árgerði
Rider: Þorbjörn Hreinn Matthíasson

3.2.3 *Assessment records on all horses in a show*

The Assessment record lists the results of assessments for all horses entered in a particular breeding show. The horses are grouped by age and sex, with the oldest group of stallions first, and so on. Within each group the horses are ranked by grading, with the highest graded first. See Example 4 for what is listed in the Assessment records.

Example 4. Information, listed in an assessment record

IS1994165520 Ómur from Brún
Colour: 3500 Jarpur/milli- einlitt ekkert auðkenni
Conformation: 7,0 - 8,0 - 8,5 - 8,0 - 8,0 - 7,0 - 8,0 - 8,0 = 7,89
Rideability: 8,5 - 7,0 - 8,5 - 8,5 - 8,5 - 8,5 - 9,5 = 8,34
Overall score: 8,16 Slow tölt: 8,0
Rider: Þorbjörn Hreinn Matthíasson

3.2.4 *Extended assessment record*

The extended assessment record contains more details about all breeding horses taking part in a breeding show, and being assessed. The horses are grouped by age and sex, with the oldest stallions first and so on. Within each group the horses are arranged by grade, with the highest graded listed first. The information given for each horse includes name, FEIF-ID number, colour, breeder, owner, parents, results of measurements and judgment, and who shows the horse. For an example see Example 5

Example 5. Information, listed in an extended assessment record

IS1994165520 Ómur from Brún
 Colour: 3500 Jarpur/milli- einlitt ekkert auðkenni
 Breeder(s): Matthías Eiðsson
 Owner(s): Hermína Ósk Valgarðsdóttir, Matthías Eiðsson
 F: IS1986157700 Kveikur from Miðsitju
 Ff: IS1973157005 Gustur from Sauðárkróki
 Fm: IS1969257791 Perla from Reykjum
 M: IS1981265031 Ósk from Brún
 Mf: IS1974158602 Ófeigur from Flugumýri
 Mm: IS1975265661 Hekla from Árgerði
 Measure: 136 - 126 - 135 - 62 - 138 - 35 - 44 - 40 - 6,2 - 29,0 - 18,0
 Measure of feet: L.fr.: 9,5 - L.h.: 8,4
 Conformation: 7,0 - 8,0 - 8,5 - 8,0 - 8,0 - 7,0 - 8,0 - 8,0 = 7,89
 Rideability: 8,5 - 7,0 - 8,5 - 8,5 - 8,5 - 8,5 - 9,5 = 8,34
 Overall score: 8,16 Slow tölt: 8,0
 Rider: Þorbjörn Hreinn Matthíasson

3.2.5 Show number

Breeding shows are assigned numbers within the year, where the first show is number 01 and so on.

3.2.6 Name of the show

All breeding shows are assigned a name, which generally reflects the place where the show is held. If more than one show is held in the same place, then the name assigned will reflect the location and type of show. See Example 6.

Example 6. An example of names of breeding shows

Héraðssýning á Gaddstaðflötum
 Húnaver
 Síðsumarssýning á Gaddstaðflötum
 Landsmót í Víðidal
 Fjórðungsmót á Kaldármelum

3.2.7 A-Certification

A-Certification is a part of quality control reporting in Iceland. This quality control is build into WorldFengur. In order for a horse to get an A-Certification, it must meet the following conditions:

1. A stallion or a mating return record must be turned in no later than 31 December of the year in which the mare was covered.
2. A mating and foal report must be sent to BI no later than 31 December of the year the foal was born.
3. A confirmation of marking of individual, microchip/freeze marks must be sent to BI before 1 March of the year after the foal is born.

If information on the pedigree of a horse is not provided as here described, then the only way to get an A-certificate is by providing a DNA pedigree trace.

3.3 Preparation

There is a lot of demanding work awaiting the individual or group undertaking registration in WorldFengur. Individual countries are variably prepared to start this. There are some, like Denmark and Sweden, which already possess all pertinent information in computer databases. Others must start from scratch, and still others are somewhere between these extremes.

WorldFengur requires the registration of a FEIF-ID number and a number of origin for all horses as mentioned before. In order to start registration in WorldFengur, the following have to be done:

- Decide, how to divide the country in areas, and assign a number to each area.
- Decide which farm listing to use for the farms (origin). In Iceland this is the listing from The Registration and Valuation Office of Iceland. Each farm has to be given a unique farm ID number. Place each farm in an area.
- Issue each breeder in each area a range of permanent numbers if using the Icelandic system in allocating FEIF-ID numbers (not necessary if the last 5-digits in the FEIF-ID number will not be used in this purpose).
- Decide on the code to be used for each individual owner. In Iceland this is the persons Personal number.
- Study the colour schedule in WorldFengur, and register colours of horses, when colours are known.
- Trace origin of all horses to horses originally imported from Iceland. This will be the most difficult part of the work. The FEIF Registration group has list of contact persons in most countries to send a FEIF-ID number request if the pedigree is traced to other countries.

4 Horses

4.1 Basic registration

When a horse breeder starts his reporting, he fills out the basic registration forms for all his Icelandic horses. It is *very important* that before a horse is registered into WorldFengur that it is fully checked that the horse isn't already registered. To check this search by all the offspring of the parents of the horse, search by a name or an origin, etc. Then the breeder must also register the parents of any now living horses, if not already registered in the Fengur database. If the horse has been assessed, or freeze marked, or microchip marked, it should already be in Fengur. If the horse was born outside Iceland, one must start by finding the ancestors of the horse, born in Iceland and duly exported. *A horse can't be entered in WorldFengur unless its pedigree can be traced to Iceland.*

Example 7. An example on how to prepare for basic registration

The stallion Fáfñir was born in Denmark, and so were both his parents. Their parents however were imported from Iceland. Thus one starts by finding the grandparents in Fengur, and then registering the parents of Fáfñir in the database. Finally, Fáfñir is registered, as a connection with horses born in Iceland has been established.

When a horse is being freshly registered with basic registration, the following items need to be registered: FEIF-ID number, name of the horse, number of origin, fate, FEIF-ID numbers of parents, colour code, date of death and the country in which the horse is located. It is also possible to register the FEIF-ID number of the surrogate mother, and possible twins. The FEIF-ID number of the surrogate mother will have to be registered in the future, but is not applicable today. Country located indicates where the horse is located when first registered, which is needed in order for WorldFengur to decide who is authorized to add or amend information about the horse. Only the registrar in the country where the horse is located and the owner/agent of the horse can amend information about the horse.

When the username and the password for WorldFengur have been entered the home page of the system will be displayed. On the left side of the screen are options to choose from. If you click on the option HORSES and then Basic registration the window on figure 3 will be displayed. It is very important to take great care when filling this form out since it increases the trustworthiness of the information in the system.

The screenshot shows a registration form with the following fields and values:

FEIF-ID number	IS1995235
Name	
Farm ID number	133919
Father's FEIF-ID number	IS199416662
Mother's FEIF-ID number	IS1989258120
Colour code	2500
Main colour and markings	Grár/rauður
One colour/two colours	None
Colour markings	None
Colour remarks	
Fate	Alive
Datardagsg	
FEIF-ID number of the mare in foal	
Twins	No
Country located	Great Britain

At the top of the form, there are three links: "Make FEIF-ID number", "Search for a farm number", and "Search for horses".

Two callout boxes are present:

- One pointing to the "Search for horses" link with the text: "Opens a window that enables horse search."
- Another pointing to the "Make FEIF-ID number" link with the text: "Opens a window that enables a search by origin."

A "Register" button is located at the bottom right of the form.

Figure 3. Basic registration

Explanations of the meanings of the fields in figure 3.

FEIF-ID number

The Name of the horse (optional).

Farm ID number: The ID number for the farm the horse originates from.

Fathers FEIF-ID number, the Id number of the father

Mothers FEIF-ID number, the Id number of the mother

Colour code

Fate of the horse, several different options are possible: alive, dead, killed or slaughtered. If the horse is dead the date of death has to be registered. The date can be registered by using the calendar. To activate the calendar click on this button  (see more information on how to use this in chapter 2)

The FEIF-ID number of the mare in foal. If this foal was conceived by means of a embryo transfer then the FEIF-ID number of the surrogate mother in typed in this field

Twins, choose from two options, yes if the foals where two, no if there was only one foal. No will automatically be selected in this field.

Country located gives information on what country the horse is located in. It is important that this information is up-to-date since the person maintaining the information on the horse can only do so in the country the horse is located in. Choose country from a dropdown window.

4.2 Conventional registration by the registrar

WorldFengur contains these basic registration parts, which are a part of quality control registry in accordance with Icelandic regulations. Every year, the registrar must register all these items with great care. This must all be done at the appropriate time and in proper order if foals are to get an A-certification.

Mating return record

Register a foaling return

Identification mark

If the breeder is beginning registration, he must however start by entering basic registration of his horses on the applicable basic registration form. In WorldFengur you go to HROSS -> Basic Registration (see basic registration)

You can thus register horses in Fengur in two ways. One way is the conventional way by registering mating and foals. Or you go through the basic registration. If a horse is registered by basic registration, it can't get an A-certification unless pedigree is proved by DNA analysis or blood typing (see register proof).

4.2.1 Mating return record

Information about when the mare was covered by a stallion is filed in this report. The time must be listed, i.e. at what time the mare was covered by the particular stallion. In order to confirm this registration, the results of scanning are registered, if this took place. The conception shall be registered in the year it took place. The owner of the stallion must confirm that his stallion covered the mare, and a veterinarian must confirm the scanning.

To enter information on mating you can choose a stallion report or a mating return record. When these reports have been filled out you can fill out a mating record. It is important to do this in the correct order and at the correct time. Click on the main menu option HORSE the choose Mating return record. The window in figure 4 will be displayed.

Register a mating return

FEIF-ID number	IS1909250120
Name	Gyðja
Name of the farm (origin)	Gröf

The mare was covered by the stallion that has this FEIF-ID number

The veterinarian that does the scanning – choose from a drop down window.

Click on these buttons to activate a calendar window.

The stallion's FEIF-ID number: IS1994166620

Veterinarian: Árnann Gunnarsson

Place: Reykjavík

mare's arrival: 2000-06-08

mare's departure: 2000-06-31

Remark: In season for 7 days, covered 3 times

Date of scan: 2000-06-28

Result of scan: Positive

Remarks on scan: ca. 25 days

Days stringing:

Register

Figure 4. An example of registration of a mating return record.

Explanation for figure 4:

The stallion's FEIF-ID number: enter the ID-number for the stallion that covered the mare.

Veterinarian, The name of the veterinarian that did the scanning is typed in or selected from a drop down window.

Place; enter the place where the mare was covered by the stallion.

Mare's arrival, what day did the mare enter the field where the stallion is kept? You can choose date by using the calendar.

Mare's departure, what day did the mare leave the field where the stallion is kept? You can choose date by using the calendar.

Remark. General remarks can be entered here e.g. how often the mare was covered by the stallion.

Date of Scan; enter the date of the scanning if it has been done.

Result of scanning is registered if it has been done to increase the precision of the report. It is possible to choose from three different options: no scanning, positive and negative.

Remarks on scan: Remarks on the scanning can be made here e.g. how old is the foetus believed to be.

Date of record; enter the date when the report was filed. If nothing is entered the system will automatically assign the date when the file was saved.

4.2.2 Foaling return record

Foaling return records are sent to breeders each year, partially filled out. This report contains information about all breeding mares owned by the particular breeder,

together with information from mating reports (See mating reports), if such information is available. The recorder confirms the foal registration.

Example 8. Conditions for issuing an A-Certificate

If a service and foal report is turned in with information to the effect that Rauðka has born the foal Sátt, by the stallion Þorri, then the conception report, which was turned in at the appropriate time, must confirm this information, so the foal can be issued an A-Certificate. Furthermore, the foal must be individually marked, at the side of its mother (see Identification mark).

To fill in a mating return record click on HORSE then Register a foaling return. The window in figure 5 will now appear.

Foaling return record

Year of birth

Owners identification number

Enter the year of birth for the foal in this field

Figure 5. To fill in a foaling return record use this window.

Enter the year when the foal was born and the ID-number of the owner to view a list of all the breeding mares that particular owner owns. This will enable the registrar to see if the mating records for the mares have been filed. In figure 6 it can be seen that the reports have been filed for 2 breeding mares out of 3. In figure 7 more information has been added i.e. one mare is registered as empty and another one as not covered.

Foaling return record 2000

Identification number: 0107632319
 Name: Halvæig Frúðadóttir
 Farm: Hamarsbjáleigu
 Area: Árnessýsla, Selfoss, Vestmannaeyjar

FEIF-ID number

Number: 3

FEIF-ID number	Name	Name of the farm (origin)	Is foal	barren/aborted	Not covered	Twins
IS1976235786	Hekla	Tungufelli	is foal	barren/aborted	Not covered	Twins
IS1906225300	Lynja	Kópavogi	is foal	barren/aborted	Not covered	Twins
IS1996287797	Upprísá	Hamarsbjáleigu	is foal	barren/aborted	Not covered	Twins

Foaling return record

Number: 2

FEIF-ID number	Name	Name of the farm (origin)	View
IS1976235786	Hekla	Tungufelli	View
IS1906225300	Lynja	Kópavogi	View

Find a horse in the list by using this field

Use these links to add information in the foaling return record

Figure 6. List of all the breeding mares of a particular owner

To register the foaling return record, use the appropriate links. If the mare is in foal use the link [In foal](#). This will lead to a window as can be seen on figure 8. If the mare is barren or aborted use the link [barren/aborted](#) and figure 9 will appear. If you use the link [Not covered](#) the registration will be saved without further information (see figure 10) needed and finally if you use the link [Twins](#) the same figure as the link in foal will be displayed (figure 8).

barren/aborted			
FEIF-ID number	Name	Name of the farm (origin)	View
IS1976235786	Hekla	Tungufelli	View

Not covered			
FEIF-ID number	Name	Name of the farm (origin)	View
IS1996287797	Upprisa	Hamarsjáleigu	View

Figure 7. A foaling return record that has been filled out.

Register a foaling return 2000

FEIF-ID number	IS1984236489
Name	Huld
Name of the farm (origin)	Gunnlaugsstöðum

The stallion's FEIF-ID number as registered by foaling return record

Gender

Fastr. ræktanda

Name

Colour code

Date of a registration

Fate

Twins

[Register a mating return](#)

Choose the fathers ID-number from a drop-down window

Choose the gender from a drop-down window.

If no date is entered the day the registration took place will automatically be used.

Fate, choose from several options e.g. a live, dead

Figure 8. Register information on a breeding mare that is in foal

Register a foaling return 2000

FEIF-ID number	IS1904236409
Name	Huld
Name of the farm (origin)	Gunnlaugsstöðum

The stallion's FEIF-ID number as registered by foaling return record: IS1995135535

The stallion's FEIF-ID number, no foaling return record on file:

Reason: Empty

[Register a mating return](#)

Enter the stallion's FEIF-ID number in these fields

Enter the reason why the mare was not in foal e.g. empty, aborted

Figure 9. Register information on a breeding mare that was barren or aborted

When the reports have been filled out the registrar clicks on the button “Register” to save the information. The registrar can be sure that the information is saved if the system displays figure 10.

Data saved

[View a horse](#) [Register a foaling return](#)

Figure 10. Registration of a foaling return record saved

4.2.3 Identification mark

A foal shall be individually marked at the side of its mother in the year it is born. The marking can only be performed by a person, who has permission to do so. There are two types of individual markings currently available: Microchip and freeze marking. The qualified marker certifies the marking of individuals. The FAIS must accept the qualified marker and there is a list of all qualified markers in WorldFengur.

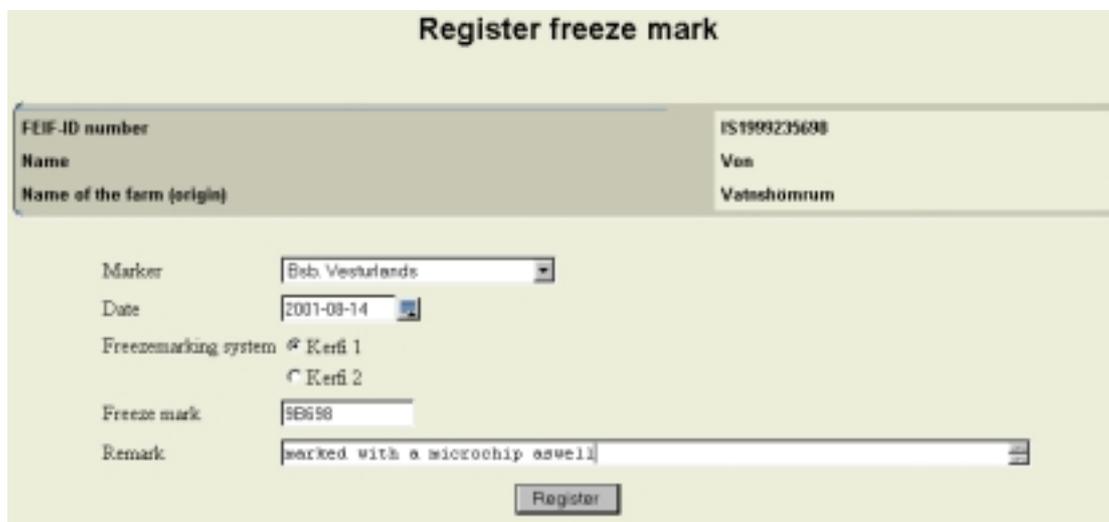
Register an identification mark

Microchip
 Freeze mark

FEIF-ID number

Figure 11. Choose to register a horse with a microchip or a freeze mark

To register a freeze mark, choose HORSE and then Identification mark. The window in figure 11 will appear. There it is possible to register a freeze mark or a microchip. If you click in the circle in front of freeze mark and enter a FEIF-ID number the window seen in figure 12 will appear.



The screenshot shows a web form titled "Register freeze mark". At the top, there is a header bar with the title. Below it, a table contains the following information: FEIF-ID number (IS1998235698), Name (Van), and Name of the farm (origin) (Vatnshöfnum). The main form area includes: Marker (a dropdown menu with "Beb. Vesturlands" selected), Date (a date picker showing "2007-08-14"), Freezemarking system (radio buttons for "Kerfi 1" (selected) and "Kerfi 2"), Freeze mark (a text input field containing "88698"), and Remark (a text area containing "marked with a microchip aswell"). A "Register" button is located at the bottom right of the form.

Figure 12. Register a freeze mark

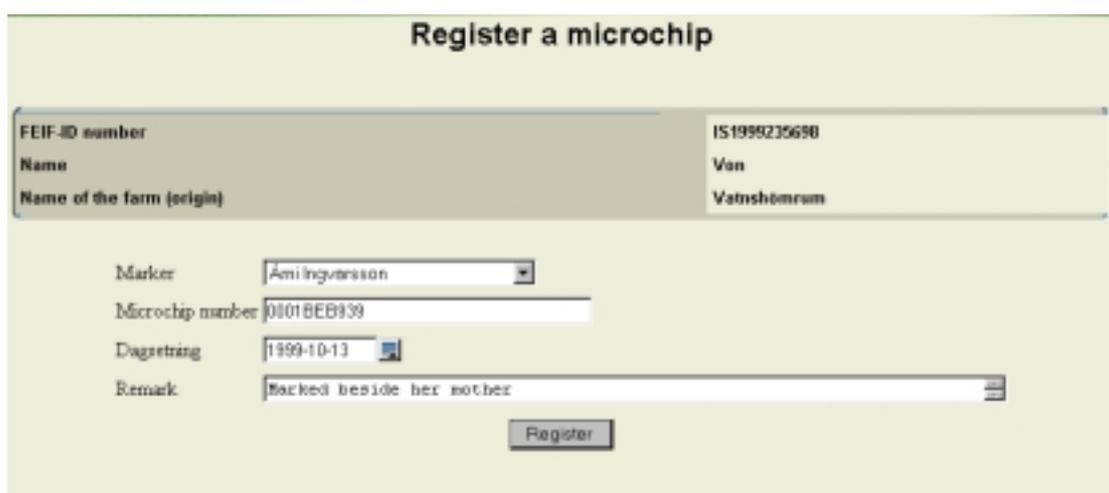
Explanation of the fields in figure 12:

Marker: choose a marker from a drop-down window.

Freeze mark: enter the freeze mark the horse is receiving.

Remark. General remarks made by the marker.

To register a microchip, choose HORSE and then Identification mark. The window in figure 11 will appear. Click in the circle in front of microchip and enter a FEIF-ID number and the window seen in figure 13 will appear.



The screenshot shows a web form titled "Register a microchip". At the top, there is a header bar with the title. Below it, a table contains the following information: FEIF-ID number (IS1998235698), Name (Van), and Name of the farm (origin) (Vatnshöfnum). The main form area includes: Marker (a dropdown menu with "Am Ingvarsson" selected), Microchip number (a text input field containing "0001BEB939"), Dagsetning (a date picker showing "1999-10-13"), and Remark (a text area containing "Marked beside her mother"). A "Register" button is located at the bottom right of the form.

Figure 13. Register a microchip

Explanation of the fields in figure 13:

Marker: choose a marker from a drop-down window.

Microchip number: enter the microchip number the horse is receiving.

Date: type the date or use the calendar to enter the date.

Remark. General remarks made by the marker.

4.3 Proof of pedigree

It is important to proof the pedigree to confirm the parentage of the horse. DNA analysis or blood grouping can prove the pedigree. In order for a horse entered by basic registration to achieve an A-Certificate, its pedigree must be confirmed this way.

To register a proof of pedigree choose HORSE and then Proof of pedigree. Enter FEIF-ID number in the appropriate field and click on the button find. The window in figure 14 will appear.

Register proof	
FEIF-ID number	IS1990188176
Name	Hrynjandi
Name of the farm (origin)	Hregphólum

Veterinarian: Gunnar Órn Guðmundsson

Parent: IS1977288170

Dagsetning: 2010-05-10

Type: DNA analysis

Result: Nothing relates

Register

Figure 14. Register proof of Pedigree.

Explanation of the fields in figure 14:

Veterinarian: choose a veterinarian from a drop-down window.

Parent: choose the parent that the blood sample is taken from.

Date: type the date or use the calendar to enter the date.

Type: choose from the list if the pedigree is confirmed with DNA-analysis or blood grouping.

Result. Choose from the list if there is nothing to refute (there is nothing that indicates that the parents are not registered correctly) or if the pedigree is refuted (the analysis shows that this horse can not be related to the parents).

4.4 Registration of ownership

To register a change of ownership a signed certificate from the seller has to be in the hands of the registrar. To register a change of ownership choose HORSE and then Change of ownership. The window in figure 15 will appear.

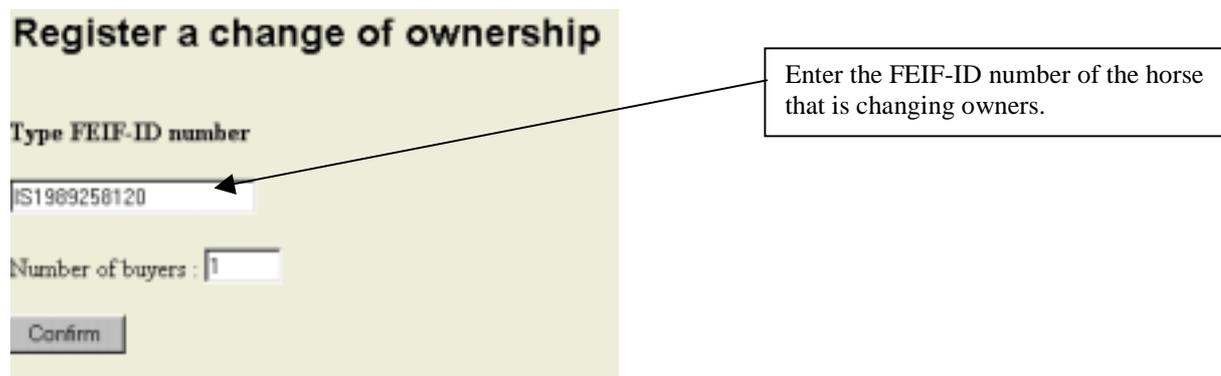


Figure 15. Register a change of ownership

Enter the FEIF-ID number of the horse that is being sold in the appropriate field and click on the button confirm. The window in figure 16 will appear. Fill out the form and use the button Register to save the information.

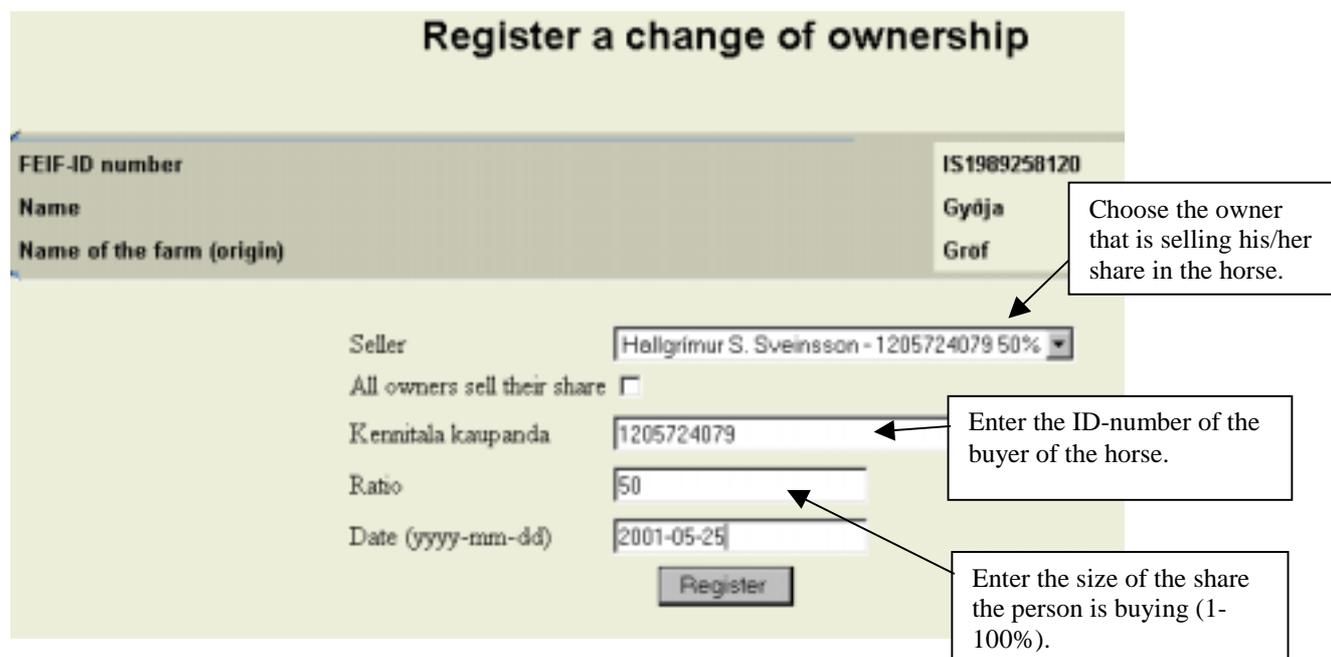


Figure 16. Register change of ownership

4.5 Stallion report

To fill in a stallion report, choose HORSES and the Stallion report. The system will display a window where you can enter the FEIF-ID number of the horse as seen on figure 17.

Registration of stallion report

Type the FEIF-ID number of the stallion

Figure 17. Registration of a stallion report.

When the FEIF-ID number has been entered and the user has clicked on the button “Enter registration” the following window will appear.

Registration of stallion report

The stallion's FEIF-ID number	IS1994166620
Name	Huginn
Farm (origin)	Hagi 1

Place

mare's arrival (yyyy-mm-dd)

mare's departure (yyyy-mm-dd)

Identification no. of a veterinarian

The last mare registered

The mare's FEIF-ID number

Remark:

Result of scan

Date of scan (yyyy-mm-dd)

Date of record (yyyy-mm-dd)

[View a stallion report](#) [Search for a veterinarian](#) [Register a veterinarian](#) [Register a new stallion report](#) [Exit](#)

Figure 18. Registering information for the stallion report.

Explanation of the fields in figure 18.

Place; enter information on where the mare was covered by the stallion.

Mare's arrival, what day did the mare enter the field where the stallion is kept?

Mare's departure, what day did the mare leave the field where the stallion is kept?

Identification no. of the veterinarian that confirms the report.

The last mare registered, information on the last mare registered.

The mare's FEIF_ID number: enter the mare's FEIF-ID number

Remark. Remarks regarding the scanning.

Result of scan: is registered if it has been done to increase the correctness of the report. It is possible to choose from three different options no scanning, positive and negative. A veterinarian must confirm the scanning.

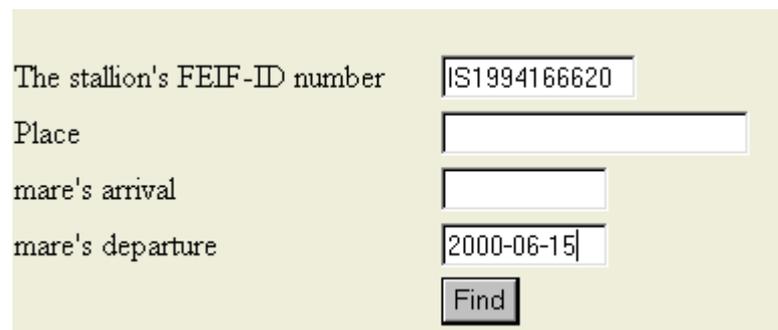
Date of Scan; enter the date of the scanning if it has been done.

Date of record; enter the date when the stallion report was filled out.

It is possible to leave the stallion report for a short while and enter different windows by using the blue links on the bottom of the screen: [view a stallion report](#), [search for a veterinarian](#), [register a veterinarian](#), [register a new stallion report](#) and [exit](#).

If you click on the option [search for a veterinarian](#) you will activate a window that enables you to search for a veterinarian by name, ID-number and country.

If you click on the option [View a stallion report](#) you will activate a window as seen in figure 19. This will enable you to search for a mare by date of arrival, place where covering took place, and date of departure. When you have entered the search conditions you click on the “Find” button.



The screenshot shows a search form with the following fields and values:

The stallion's FEIF-ID number	IS1994166620
Place	
mare's arrival	
mare's departure	2000-06-15
	<input type="button" value="Find"/>

Figure 19. Find mares for stallion reports

5 Marker

5.1 Find

To find a marker click on MARKER on the left side of the screen, then click the FIND button. A list of all the marker's names will be displayed in alphabetical order. You can search for the marker by scrolling down the page or by using the search button. You can search by using name, personal number and country. When you have entered the search conditions you click on "Find".

Marker

Search by identification number
 Search by name

Number : 174

Identification number	Name	Address	Country	position	View
0105522069	Adalsteinn Guðmundsson	Húsatóftum 2a	IS	1	View
2007524739	Albert Jónsson	Strandarhófi	IS	1	View

Figure 20. An Example of how to look for markers

When you click on the option [View](#) you will obtain more detailed information on the marker in question. In this window you can register a new marker and change/delete the marker on display.

Marker

Identification number	0105522069
Name	Adalsteinn Guðmundsson
Address	Húsatóftum 2a
Postal code	801
Postal name	Skeldáhr.
County	
Country name	
Telephone (home)	
Telephone (work)	
e-mail address	
Country	IS
position	1
Date	2000-08-08 11:08:07.0
Remark	
Life sign (fate)	0

Figure 21. An example on more detailed information on a marker.

6 Microchip vendor

6.1 Find

Microchip vendor

Search by identification number
 Search by name

Identification number	Name	Address	Country	position	View
5002697319	Pharmaco hf	Hörgatúni 2	IS	1	View

Figure 22. Find a microchip vendor

To find a microchip vendor you click on MICROCHIP VENDOR on the left side of the screen, then click Find. A list of all the vendor's names will be displayed in an alphabetical order, if any microchip vendors have been registered. You can search for the vendor by scrolling down the page or by using the search button. You can search by using name, personal number and country. When you have entered the search conditions you click on the "Find" button.

To view more detailed information on the microchip vendor click the link [View](#) (see figure 23).

Microchip vendor

Identification number	5002697319
Name	Pharmaco hf
Address	Hörgatúni 2
Postal code	210
Postal name	Garðabær
County	Gullbringu- og Kjósasýsla
Country name	
Telephone (home)	
Telephone (work)	
e-mail address	
Country	IS
position	1
Remark	
Life sign (fate)	0

[Change/Delete Register](#)

Figure 23. Information on a Microchip vendor

7 Owner

In the owner registry information on owners and breeders are kept. The following information can be found in this part of the system: personal number, name, address, number of origin and permanent numbers. It is very important that the number of origin and the permanent number are registered for all active horse breeders

Figure 24. An example on how to search for an owner by name

To register information on owners you click on the option OWNER and then choose the option register. Then you will be able to enter the personal number of the owner. If the owner has not been registered before the window in figure 25 will be displayed. If the owner has been registered before you will obtain information on the owner. On the bottom of this window the options [Change/Delete](#), [Register](#) can be found and used if appropriate.

Figure 25. An example on how to enter information on a new owner

An explanation on figure 25:

Identification number: The personal number of the owner.

Name, full name of the owner

Address, it is not necessary to register legal domicile but residence has to be registered

Postal code, the postal code on the address above has to be registered.

Postal name, enter the name of the place that refers to the postal code.

County, in which county does the farm that the horses are said to originate from lie.

Country name, In what country lives the owner.

Telephone, the owners telephone number at home.

Telephone at work, the owners telephone number at work

E-mail address, if possible.

Personal number of representative, if a representative is necessary.

Appearance level, choose from being visible or not visible in the system.

Farm-ID number: enter the ID- number for the farm the horses are told to originate from

First *permanent number (optional)*

Second *permanent number (optional)*

8 Veterinarian

8.1 Find

To find a veterinarian click on VETERINARIAN on the left side of the screen, then click on Find. A list of all the veterinarian's names will be displayed in alphabetical order. You can search for the veterinarian by scrolling down the page or by using the find button. You can search by using name, personal number and country. When you have entered the search conditions you click the "Find" button.

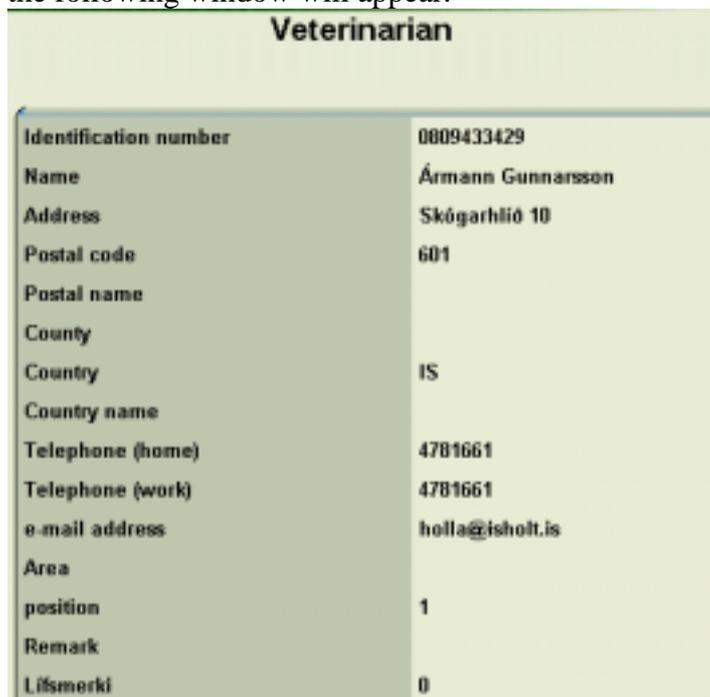


The screenshot shows a web interface titled "Veterinarian". It has two radio buttons for search criteria: "Search by identification number" (selected) and "Search by name". Below these are two input fields and a "Find" button. The text "Number : 31" is displayed above a table of results. The table has columns for Identification number, Name, Address, Country, position, and View.

Identification number	Name	Address	Country	position	View
0809433429	Árman Gunnarsson	Skógarhlíð 10	IS	1	View
0601723909	Ásdís Linda Sveinisdóttir	Lakjarselí 8	IS	1	View
2403434289	Bárður Ólafur Ólafsson	Ketilsbraut 21	IS	1	View
2306602719	Bernhard Laxdal	Bæjargli 82	IS	1	View
2109674279	Björgvin Þórisson	Ljárskógur 8	IS	1	View

Figure 26. An example of how to find a veterinarian

To view more detailed information on the veterinarian choose the [View](#) button and the following window will appear.



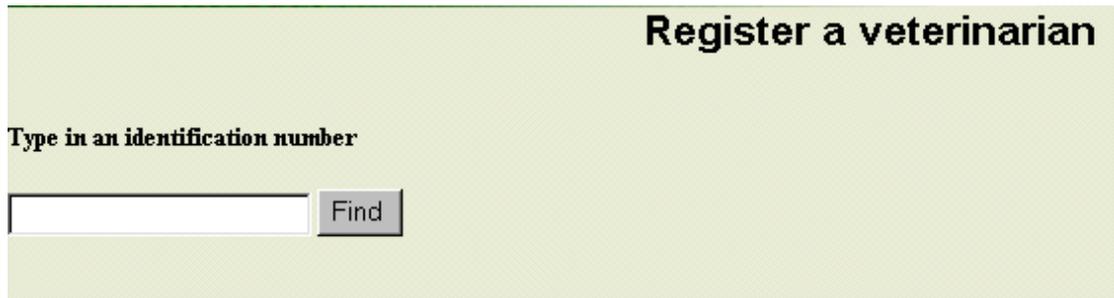
The screenshot shows a detailed view window titled "Veterinarian". It displays the following information:

Identification number	0809433429
Name	Árman Gunnarsson
Address	Skógarhlíð 10
Postal code	601
Postal name	
County	
Country	IS
Country name	
Telephone (home)	4781661
Telephone (work)	4781661
e-mail address	holla@isholt.is
Area	
position	1
Remark	
Lífsmörki	0

Figure 27. Detailed information on a veterinarian

8.2 Register a veterinarian

To enter information on a veterinarian for the first time you click on the option VETERINARIAN and then the option Register. This will enable you to enter the veterinarian's identification number (see fig. 29). Then choose the button "Find" and the information for the veterinarian will be displayed (see fig. 30). Enter the missing information and click on the button "Register" to save the new information in the WorldFengur system.



The screenshot shows a web form titled "Register a veterinarian". Below the title, there is a prompt "Type in an identification number" followed by a text input field and a "Find" button.

Figure 27. To enter information about a veterinarian for the first time.



The screenshot shows the "Register a veterinarian" form with the following fields filled out:

Field	Value
Identification number	1205724079
Name	Hallgrímur S. Sveinsson
Address	Votnshöfnunum
Postal code	311
Postal name	Andakílshr.
County	Borgarfjörður
Country name	
Telephone (home)	+354-4370232
Telephone (work)	+354-8615969
e-mail address	hs@bondi.is
Area	Borgarfjarðarsýsla, Akranes
position	Virkur
Remark	

A "Register" button is located at the bottom right of the form.

Figure 28. Information entry to register a new veterinarian into the system.

9 Person

9.1 Find

To find a person click on PERSON on the left side of the screen, then click the FIND button. You can search for the person using name, personal number and country. When the search conditions have been entered click on the “Find” button. The persons that match the search conditions will be listed in a table as seen on figure 31. It is possible to view more detailed information on each person by clicking on the View button. The window seen in figure 32 will be displayed.

The screenshot shows a web interface titled "Person". At the top, there are two radio buttons: "Search by identification number" (selected) and "Search by name". Below them is a search input field containing "Sigurður Jónsson" and a "Find" button. A callout box points to the input field with the text "Enter the search conditions here". Below the search form, it says "Number : 13". A table lists 13 search results. Each row has columns for "Identification number", "Name", "Address", "Country", and "View". The "View" column contains blue links. A callout box points to one of the "View" links with the text "To view more detailed information on the person click here".

Identification number	Name	Address	Country	View
3083683369	Sigurður Jónsson	Hæðargarði 15	IS	View
2789664469	Sigurður Jónsson	Svíþjóð	IS	View
2982532389	Sigurður Jónsson	Kirkjubæ	IS	View
2481472549	Sigurður Jónsson	Víkingsstöðum	IS	View
2387313229	Sigurður Jónsson	Herríðarhöll	IS	View
2212693149	Sigurður Jónsson	Skagabraut 46	IS	View
1518344549	Sigurður Jónsson	Eystra-Seljalandi	IS	View
1589413429	Sigurður Jónsson	Áævi 8	IS	View
1312462779	Sigurður Jónsson	Vallargerði 2b	IS	View
1288472799	Sigurður Jónsson	Sólheimum 27	IS	View
8411262649	Sigurður Jónsson	Kastalabrekku	IS	View

Figure 29. An example of how to find a person

The screenshot shows a web interface titled "Person" displaying detailed information for a specific person. The information is presented in a list format with labels on the left and values on the right. The labels include: "Identification number", "Name", "Address", "Postal code", "Postal name", "County", "Country", "Country name", "Telephone (home)", "Telephone (work)", "e-mail address", and "Life sign (fate)". The values are: "2502532309", "Sigurður Jónsson", "Kirkjubæ", "701", "", "IS", "", "", "", "", "", "", and "0". At the bottom left, there is a link "Change/Delete Register". Two callout boxes provide instructions: one points to the "Change/Delete Register" link with the text "To Change or Delete information about a person click here", and another points to the "Register" part of the link with the text "To register a new person click here".

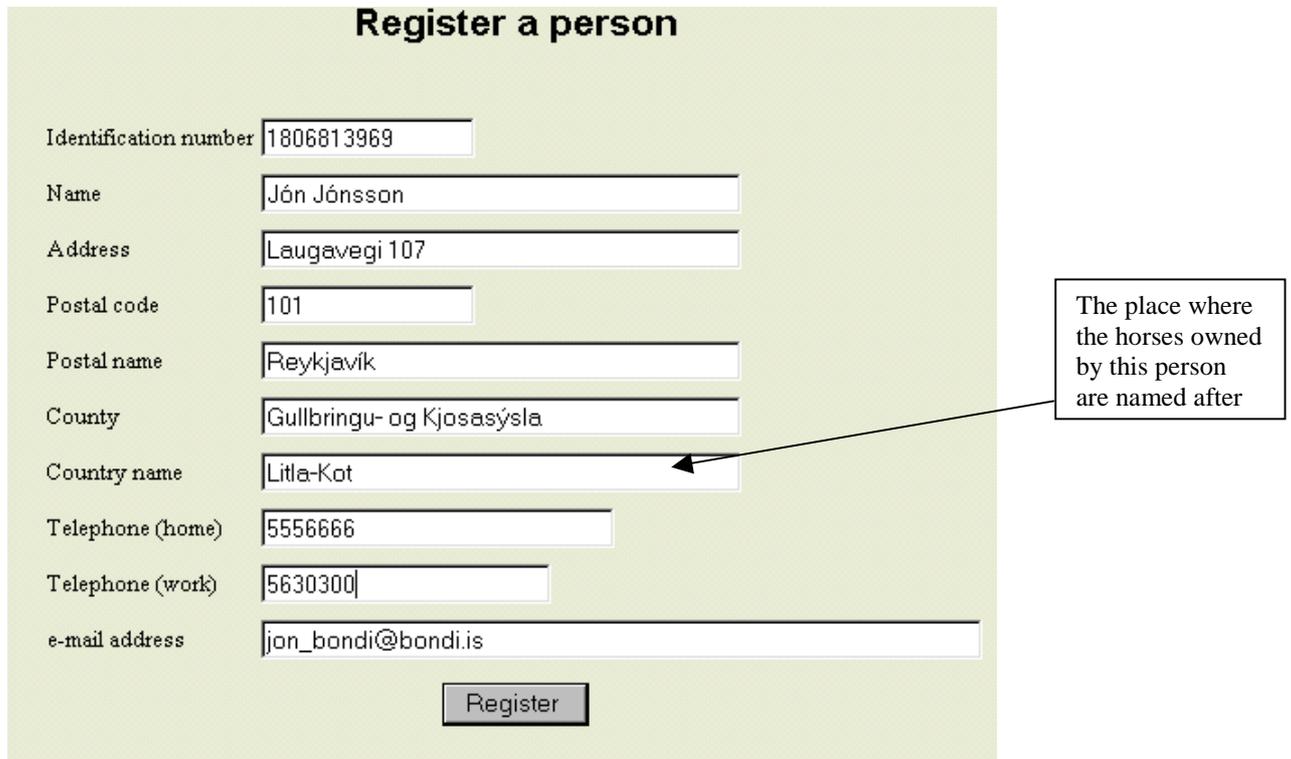
Identification number	2502532309
Name	Sigurður Jónsson
Address	Kirkjubæ
Postal code	701
Postal name	
County	
Country	IS
Country name	
Telephone (home)	
Telephone (work)	
e-mail address	
Life sign (fate)	0

[Change/Delete Register](#)

Figure 30. Detailed information on a person

9.2 Register

To enter new information on a person click on PERSON then Register. Then you will be able to enter a personal number for the person that is being registered. When the number has been entered click on search. A window as seen on figure 33 will be displayed and all the information can be registered.



The image shows a web form titled "Register a person" with a light green background. The form contains several input fields, each with a label to its left. The fields are filled with the following text: Identification number (1806813969), Name (Jón Jónsson), Address (Laugavegi 107), Postal code (101), Postal name (Reykjavík), County (Gullbringu- og Kjosasýsla), Country name (Litla-Kot), Telephone (home) (5556666), Telephone (work) (5630300), and e-mail address (jon_bondi@bondi.is). Below the fields is a "Register" button. A callout box on the right side of the form, with a black border and white background, contains the text "The place where the horses owned by this person are named after". An arrow points from this box to the "Country name" field.

Identification number	1806813969
Name	Jón Jónsson
Address	Laugavegi 107
Postal code	101
Postal name	Reykjavík
County	Gullbringu- og Kjosasýsla
Country name	Litla-Kot
Telephone (home)	5556666
Telephone (work)	5630300
e-mail address	jon_bondi@bondi.is

Register

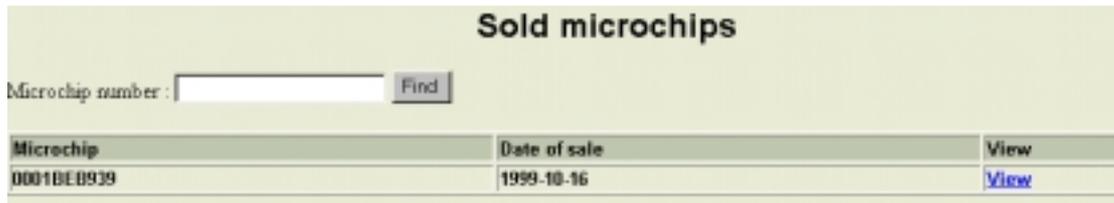
The place where the horses owned by this person are named after

Figure 31. An example of how to register a new person into the system.

10 Sold Microchips

10.1 Find

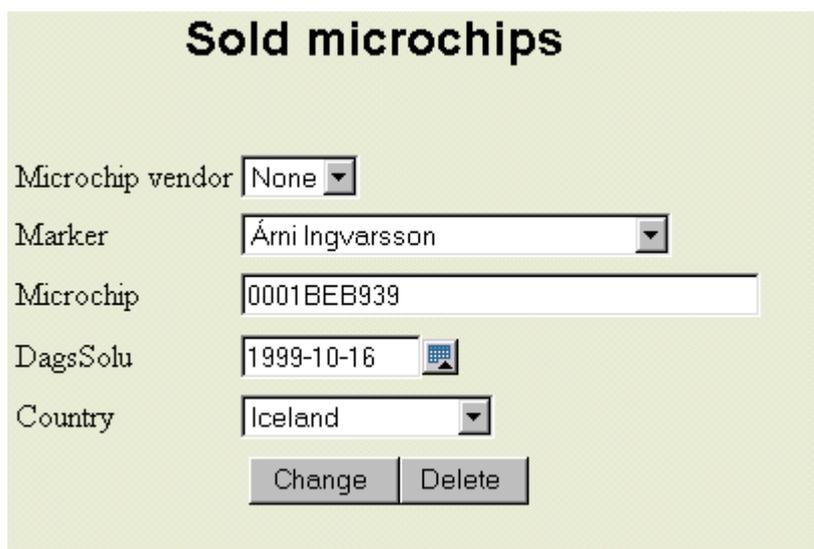
To find a sold microchip click on [SOLD MICROCHIPS](#) on the left side of the screen, then click the [FIND](#) button. When the microchip number has been entered, click on the “Find” button. If the microchip has been registered the information seen in figure 34 can be viewed.



Microchip	Date of sale	View
0001BEB939	1999-10-16	View

Figure 32. An example of how to find a sold microchip.

To see more details on the sold microchip, click on the [View](#) button. Information on the microchip vendor, the marker, etc. will be displayed as can be seen on figure 35. Additionally it is possible to change or delete information on the microchip in this window.

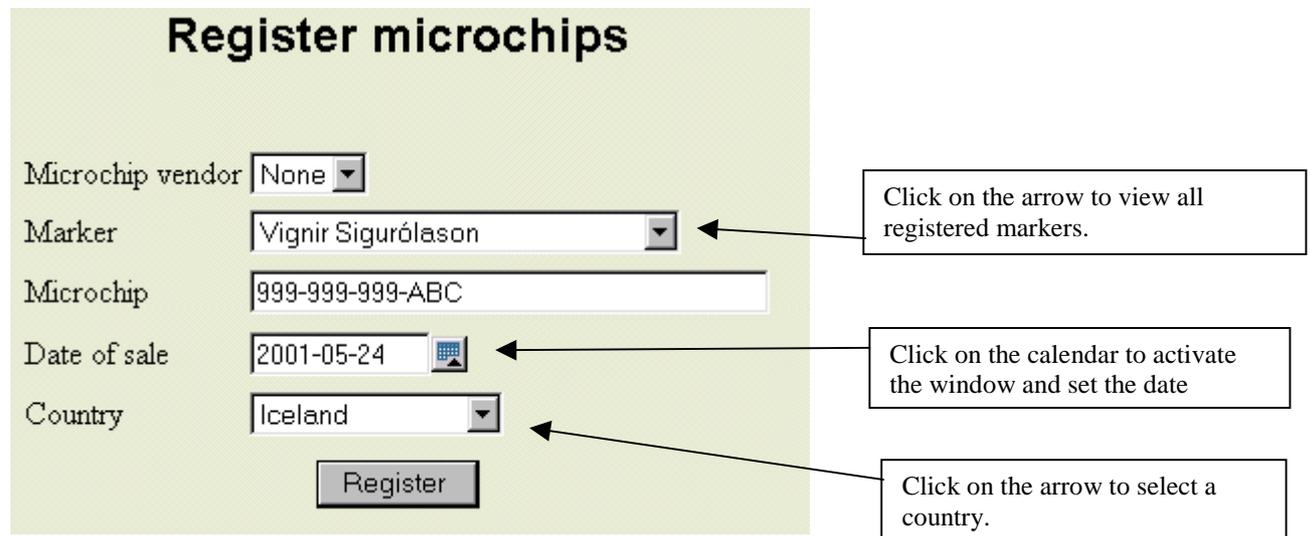


Microchip vendor	None
Marker	Árni Ingvarsson
Microchip	0001BEB939
DagsSolu	1999-10-16
Country	Iceland
<input type="button" value="Change"/> <input type="button" value="Delete"/>	

Figure 33. Information on sold microchips in the system.

10.2 Register microchips

To register a microchip choose SOLD MICROCHIPS on the left side of the screen then Register microchips. The window as seen on figure 34 will be displayed. Enter information on the microchip and save the information by clicking on Register.



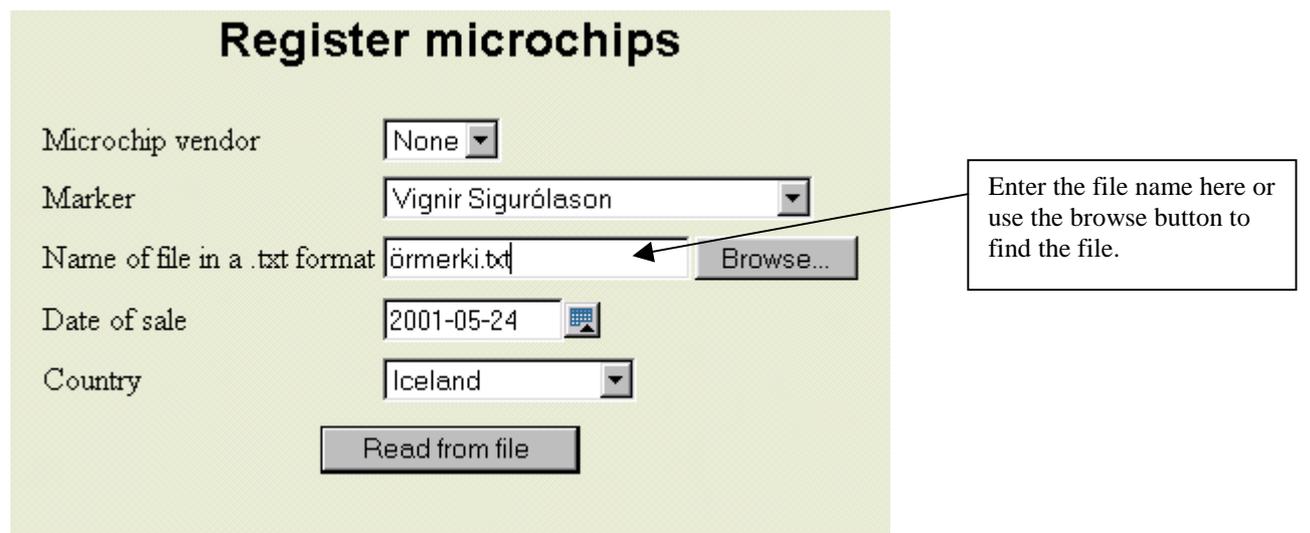
The screenshot shows a web form titled "Register microchips" with the following fields and callouts:

- Microchip vendor:** A dropdown menu with "None" selected.
- Marker:** A dropdown menu with "Vignir Sigurólason" selected. A callout box points to the arrow on the right, stating: "Click on the arrow to view all registered markers."
- Microchip:** A text input field containing "999-999-999-ABC".
- Date of sale:** A date input field with "2001-05-24" and a calendar icon. A callout box points to the calendar icon, stating: "Click on the calendar to activate the window and set the date".
- Country:** A dropdown menu with "Iceland" selected. A callout box points to the arrow on the right, stating: "Click on the arrow to select a country."
- Register:** A button at the bottom of the form.

Figure 34. Register a microchip.

10.3 Read from file

It is possible to register microchips by reading them from files in a text format. The registration is similar except the file is used instead of manual registration. It is possible to enter the file name by typing it into the field "Name of file in a .txt format" or it can be found by using the "Browse" button.



The screenshot shows a web form titled "Register microchips" with the following fields and callouts:

- Microchip vendor:** A dropdown menu with "None" selected.
- Marker:** A dropdown menu with "Vignir Sigurólason" selected.
- Name of file in a .txt format:** A text input field containing "örmerki.txt" and a "Browse..." button. A callout box points to the text field, stating: "Enter the file name here or use the browse button to find the file."
- Date of sale:** A date input field with "2001-05-24" and a calendar icon.
- Country:** A dropdown menu with "Iceland" selected.
- Read from file:** A button at the bottom of the form.

Figure 35. Registering sold microchips using files on a .txt format.

11 Shows

11.1 Find

To view information on breeding shows click on [SHOWS](#) on the left side of the screen then choose [Find](#). Then it will be possible to look for a particular show by entering year of the show or the name of the show.

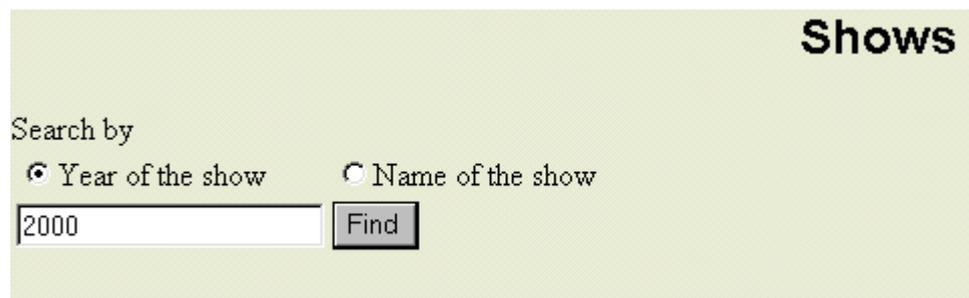


Figure 36. Find a breeding show.

If the search is successful all the shows that met the search criteria will be listed in a table. Information on the year of the show, show number and the name of the show will appear in the table. To view information on a particular show in more detail choose the link [Details](#) in the table.



Year of a show	Show number	Name of the show	
2000	01	Stöðhestsýning í Víðidal	Details...
2000	02	Víðidalur seinni sýning	Details...
2000	03	Gaddstaðaflokkur	Details...
2000	04	Vindheimamelar	Details...
2000	05	Hünaver	Details...
2000	06	Belgerósmelar	Details...
2000	07	Héradssýning Stekkhólma	Details...
2000	09	Borgarnes	Details...
2000	10	Hornafjörður	Details...
2000	11	Landsmót í Víðidal	Details...
2000	12	Vindheimamelar síðsumars	Details...
2000	13	Síðsumarsýning á Gaddstaðaflokkum	Details...
2000	14	Borgarnes síðsumarsýning	Details...

Figure 37. Find a show by year

In figure 38, information on a particular show can be seen. If you choose the link [Print record on all horses in the show](#) a new window will appear with detailed information on all the horses registered to participate in the show (see example 3, page 6). If you use the link [Print assessments from this show](#) a window containing an overview of all the assessments in the show (see example 4, page 7). Finally, if you use the link [Print extended records for all the horses in the show](#) you will be able to

view all the assessments in the show in addition to detailed information on the horses (see example 6, page 7).

It is possible to search for an assessment for a particular horse if the FEIF-ID number of the horse is known. When the FEIF-ID number has been entered click the button "Find an assessment". If the horse with this number did participate in the show a window with the results will be displayed.

Shows

[Print record on all horses in the show](#) - [Print assessments from this show](#) - [Print extended records for all horses in the show](#)

Year of a show: 2000
 Show number: 11
 Date: 2000.07.08
 Name of the show: Landsmót í Viðidal
 Number of area: 25
 Judge 1:
 Judge 2:
 Judge 3:
 Show manager:
 Other employees:
 Locked Date: 2000-11-16 16:50:46.0

Search by FEIF-ID number Number : 214 [Go back](#)

Horses in this show	Overall score		
IS1993186930 Adám frá Ásmundarstöðum	8.36	Details...	Print assessment
IS1994284263 Ambátt frá Kanastöðum	8.18	Details...	Print assessment

Figure 38. Information on a particular breeding show.

11.2 Register a show

To register a new breeding show select SHOWS on the left side of the screen then Register.

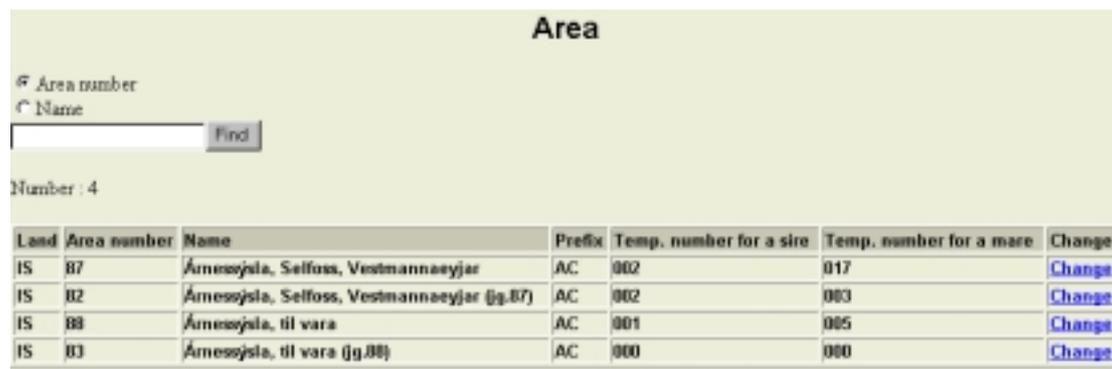
When registering a show, information on year of the show, number of the show, name of the show, personal number of the judges etc. have to be registered. When necessary information has been entered click on Register to save. This will activate a window in which registration of all the horses participating in the show can take place.

12 Area

12.1 Find

To find information on area click on [AREA](#) on the left side of the screen and then choose [Find](#). Then it will be possible to look for an area by entering the area number or the name of the area.

The results of the search are listed in a table where the link [Change](#) can be used to change information on the area.



The screenshot shows a web interface titled "Area". It has a search form with two input fields: "Area number" and "Name", and a "Find" button. Below the form, it says "Number : 4". A table displays the search results with columns: Land, Area number, Name, Prefix, Temp. number for a sire, Temp. number for a mare, and Change. Each row has a blue "Change" link in the last column.

Land	Area number	Name	Prefix	Temp. number for a sire	Temp. number for a mare	Change
IS	87	Árnessýsla, Selfoss, Vestmannaeyjar	AC	002	017	Change
IS	82	Árnessýsla, Selfoss, Vestmannaeyjar (jg.87)	AC	002	003	Change
IS	88	Árnessýsla, til vara	AC	001	005	Change
IS	83	Árnessýsla, til vara (jg.88)	AC	000	000	Change

Figure 39. Find an area.

12.2 Register

To register an area, choose the button [AREA](#) on the left side of the screen and then [Register](#). The area number is a 2-digit number and has to be entered. The area number indicates the area within a country. An example on how to register a new area can be seen in figure 42. Don't worry about the last 3 fields. Leave it unchanged.



The screenshot shows a web interface titled "Register an area". It has five input fields: "Area number" (35), "Name" (Borgarfjarðarsýsla), "Prefix" (AC), "Temp. number for a sire" (000), and "Temp. number for a mare" (000). A "Register" button is located at the bottom right.

Figure 40. Register an area.

13. Farm (Origin)

13.1 Find

To find the farm where the horse originates from choose FARM (Origin) then Find. It is possible to search by the farm's ID number, the name of the farm and the country in which the farm is placed. The search results are listed in a table as can be seen in figure 43.



Area number	Farm ID number	Farm (origin)	Name of the farm (origin)	Change
37	136352	Vatnsbakkaheiði	Vatnsbakkaheiði	Change
75	156536	Vatnsdalagerði	Vatnsdalagerði	Change
56	144732	Vatnsdalshólar	Vatnsdalshólum	Change
46	139932	Vatnsdalur	Vatnsdal	Change
84	164076	Vatnsdalur	Vatnsdal	Change
25	116957	Vatnsendi	Vatnsenda	Change

Figure 41. Finding a farm in the system.

13.2 Register

To register the farm where the horse originates from, choose FARM (Origin) then Register. Enter the information required i.e. area, the farm ID number and the name of the farm. Use the button “Register” to save the information.



Figure 42. An example on how to register a new farm into WorldFengur.

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