TECHNICAL EQUIPMENT IN POLAND'S DAIRY FARM

DUBLIN 06.03.2012

POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS
WHO WE ARE?

We are the only legal representative of dairy cattle breeders in Poland.

We are an independent, voluntary and self-governing organization, with about 8,200 members in regional and breeds’ unions.

We are a member of ICAR and INTERBULL, EHRC and WHFF.

The Polish Federation of Cattle Breeders and Dairy Farmers is the only organization authorized by Ministry of Agriculture and Rural Development to keep herd books for dairy cattle and recording of milk.
POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS

FIELDS OF ACTIVITY

- Undertaking breeding programs and coordinating their realization.
- Provide cattle nutrition services
- We are responsible for the delivery of part of Rural Development Programme for 2007-2013 - the Cross-Compliance in dairy farms.
- Representing the Polish Federation of Cattle Breeders and Dairy Farmers on the international arena.
THE AVERAGE AREA OF POLISH FARM - 10.36ha (26.6 acres)

Source: The Agency for Restructuring and Modernisation of Agriculture, publication 2011
CATTLE AND DAIRY COWS POPULATION

Thous. pcs.

Source: Central Statistical Office - publication 2011
## A FEW DETAILS ABOUT POLISH CATTLE

<table>
<thead>
<tr>
<th></th>
<th>Poland</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle population</td>
<td>6,076,078 (2010)</td>
<td>6,716,000 (2009)</td>
</tr>
<tr>
<td>Number of herds in 2010</td>
<td>427,700</td>
<td></td>
</tr>
<tr>
<td>Dairy cows population in 2010</td>
<td>2,528,827</td>
<td>1,126,900</td>
</tr>
<tr>
<td>Average herd size in 2010</td>
<td>5</td>
<td>52</td>
</tr>
<tr>
<td>Milk yield of dairy cow in 2010</td>
<td>5,500 kg</td>
<td>4,928 kg</td>
</tr>
</tbody>
</table>

Source: The Agency for Restructuring and Modernisation of Agriculture, publication 2011
STRUCTURE OF DAIRY FARM IN POLAND (%)

- Herd size 1 pcs.: 40%
- Herd size 2 pcs.: 17%
- Herd size 3-4 pcs.: 13%
- Herd size 5-9 pcs.: 11%
- Herd size 10-19 pcs.: 12%
- Herd size ≥20 pcs.: 7%

Source: Central Statistical Office - publication 2011
The structure of dairy farms in Poland by Vivodships

Herd size

Number of farms

Source: Central Statistical Office - publication 2011
MILK PRODUCTION AND CATTLE POPULATION IN POLAND

* as of December 2008
Source: CSO
MIXING WAGON IN POLISH DAIRY FARM
THE MOST COMMON BRANDS IN POLAND
MIXING WAGON

INTERNATIONAL COMPANY

POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS
THE MOST COMMON BRANDS IN POLAND

MIXING WAGON

POLISH BRAND`S

Source: Farmers, Polish Federation of Cattle Breeders and Dairy Farmers employees, Animal nutrition company
MIXING WAGON DEPENDS ON HERDS SIZE

Mixing wagon according to the herd size
(in percentage of the total number of dairy farm in a given range)

<table>
<thead>
<tr>
<th>HERD SIZE IN PCS.</th>
<th>10-20</th>
<th>20-50</th>
<th>50-100</th>
<th>100-200</th>
<th>OVER 200</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>30</td>
<td>40</td>
<td>80</td>
<td>95</td>
</tr>
</tbody>
</table>
## Type of Mixing System in Dairy Farm

Type of mixing system according to the herd size
(in percentage of the total number of dairy farm in a given range)

<table>
<thead>
<tr>
<th>Type of mixing system %</th>
<th>HERD SIZE IN PCS.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10-20</td>
</tr>
<tr>
<td>Horizontal</td>
<td>0</td>
</tr>
<tr>
<td>Vertical</td>
<td>100</td>
</tr>
</tbody>
</table>
# TYPE OF DRIVE SYSTEM DEPENDING ON HERDS SIZE

Type of drive system in mixing wagon according to the herd size

(in percentage of the total number of dairy farm in a given range)

<table>
<thead>
<tr>
<th>Type of drive system</th>
<th>HERD SIZE IN PCS.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10-20</td>
</tr>
<tr>
<td>Towed</td>
<td>100</td>
</tr>
<tr>
<td>Mobile</td>
<td>0</td>
</tr>
</tbody>
</table>
THE MOST COMMON MIXING WAGON
VERTICAL MIXING SYSTEM

Size 5-8 cubic meter
Vertical mixing system
Simple electronic weighing system
Towed by tractor
THE MOST POPULAR MIXING WAGON
VERTICAL MIXING SYSTEM

The most popular brands in Poland

Number 4

TRIOLIET
FEEDING TECHNOLOGY

POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS
THE MOST POPULAR MIXING WAGON
VERTICAL MIXING SYSTEM

The most popular brands in Poland

Number 3

POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS
THE MOST POPULAR MIXING WAGON
VERTICAL MIXING SYSTEM

The most popular brands in Poland

Number 2
THE MOST POPULAR MIXING WAGON
VERTICAL MIXING SYSTEM

The most popular brands in Poland

Number 1

Sano
Animal nutrition
healthy and profitable

SILOKING

POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS
THE MOST POPULAR MIXING WAGON
HORIZONTAL MIXING SYSTEM

The most popular brand in Poland

Number 3

DeLaval
THE MOST POPULAR MIXING WAGON
HORIZONTAL MIXING SYSTEM

The most popular brands in Poland

Number 2
THE MOST POPULAR MIXING WAGON
HORIZONTAL MIXING SYSTEM

The most popular brands in Poland

Number 1

SGARIBOLDI

POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS
MIXING WAGON IN POLISH FARM BY BRAND

- MetaFach
- RMH
- Strautmann
- Scariboldi
- Kennan
- Sano
- De Laval
- Alimix
- BYL
- Troles
- Kuhn
- Storti
- Other

POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS
AUTOMATIC FEEDING SYSTEM IN POLISH DAIRY FARM
Almost 65% dairy farms in Poland are tying stall.
The most popular feeding system based on TMR and Mixing Wagon. System based on feed wagon are very rare.
FEEDING SYSTEM IN POLISH DAIRY FARM

Almost 65% dairy farms in Poland are tying stall. The most popular feeding system based on TMR and Mixing Wagon. System based on feed wagon are very rare.

Why aren`t Feed Wagons popular on Polish dairy farms?

• cost of this feed system
• complication of this system
• failure of this system
• the popularity of Mixing Wagon
• cost of work is not adequate to price for this system
Almost 35% dairy farm in Poland are covered-yard. The most popular feeding system based on feed silos, transport system and feeding station.
FEEDING SYSTEM IN DAIRY FARM

Feeding station according to the herd size
(in percentage of the total number of dairy farm in a given range)

Source: Farmers, Polish Federation of Cattle Breeders and Dairy Farmers employees, Animal nutrition company
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The calf feeder are using almost by 25% farm, with their herd size is over 100 dairy cows.

The majority of the dairy farm are using traditional feeding system „by the hand” It is connect too special calf’s shed (igloo).
Calf feeding system in Polish farm

- 75% Calf feeder
- 25% Hand feeding
CALF FEEDING SYSTEM IN POLISH FARM

Feeding station according to the herd size
(in percentage of the total number of dairy farm in a given range)

- 10 - 20 pcs. 40%
- 20 - 50 pcs. 25%
- 50 - 100 pcs. 33%
- 100 - 200 pcs. 0%
- >200 pcs. 2%

POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS
CALF FEEDING SYSTEM IN POLISH FARM

Polish market of automatic calf feeder

- Westfalia (GEA): 35%
- De Laval: 38%
- Stranko: 13%
- Pellon: 1%
- Alima: 7%
- Lely: 1%
- Other: 5%

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FORAGE HARVESTER SYSTEM IN POLAND
Due to average size of polish dairy farm (26.6 acres) the most common system is round balers (bailing press) - especially in south and eastern part of Poland. Round balers system is very popular in herd size below 70 cows.
BALING PRESS – THE MOST POPULAR BRANDS

International brands

- KRONE
- NEW HOLLAND AGRICULTURE
- CLAAS
- WELGER
- JOHN DEERE
- DEUTZ FAHR

Polish brands

- SIPMA
- METAL-FACH
- POLMOT
- Warfama
- PRONAR
ROUND BALERS BY BRANDS (%)
FORAGE AND DISCHARGER
WAGON
THE MOST POPULAR BRANDS

Polish brands

SIPMA

METAL-FACH

POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS
Forage and Discharger Wagon Polish Market (%)
ELECTRIC FENCING

Most popular energizer

Technical data:
Universal power supply battery/230V
Output energy 1J
Input energy 1,6 J
Entrance voltage 9,600V
Max fence length 30km
Price 80-90 €

For cattle, deer.
Lots of farmers are using electric fencing to protect fodder maiz crop against wild bord
THANK YOU FOR YOUR ATTENTION

PLEASE VISIT MY COUNTRY

IT IS WORTH TO BE THERE
POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS
THE HOTTEST PLACES IN POLAND
YOU MUST BE THERE IN JUNE 2012

POLISH FEDERATION OF CATTLE BREEDERS AND DAIRY FARMERS