

System of classification of sheep carcasses in the Republic of Croatia

REGIONAL SHEEP AND GOAT BREEDERS` DAY 2010

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Sheep breeding in Croatia

NUMBER OF SHEEP	2005.	2006.	2007.	2008.	2009.
SHEEP, TOTAL	796.480	679.839	645.992	643.384	619.044
LAMBS AND YOUNG SHEEP UP TO 1 YEAR	251.421	120.248	114.967	103.986	102.936
EWES, TOTAL	506.379	523.540	498.567	506.306	484.817
MILKING SHEEP	254.615	216.931	243.144	246.403	225.283
OTHERS	251.764	306.609	255.423	259.903	259.534
OTHER SHEEP (RAMS, BARREN EWES)	38.680	36.051	32.458	33.092	31.291

Source: Central Bureau of Statistics

- In the 5 costal countjes (Primorsko-goranska, Ličko-senjska, Zadarska, Šibensko-kninska i Splitsko-dalmatinska county) total of 304.596 sheep (56,07%)

Sheep breeding in Croatia

REGISTERED EWES AND BREEDERS	2005	2006	2007	2008	2009
BREEDERS	7.809	8.376	8.366	11.241	10.766
SHEEP	506.129	531.504	538.827	585.441	543.247

2009.

COUNTY	BREEDERS	REGISTERED EWES	SHARE (%)
Zadarska	1.740	97.930	18,03
Šibensko - kninska	1.123	66.176	12,18
Ličko - senjska	1.629	62.522	11,51
Splitsko - dalmatinska	859	46.057	8,48
Bjelovarsko - bilogorska	1.037	44.237	8,14
Primorsko - goranska	522	31.911	5,87
TOTAL	10.766	543.247	64,21

Source: Croatian Agricultural Agency

Sheep breeding in Croatia

TURNOVER OF SHEEP	2005.	2006.	2007.	2008.	2009.
SHEEP AT THE BEGINNING OF THE YEAR	796.480	767.599	679.839	645.992	643.384
FERTILIZED DURING THE YEAR	540.786	422.155	463.637	477.619	473.983
IMPORT	36.730	51.858	92.644	93.687	76.480
EXPORT	0	122	331	0	5
SLAUGHTERED	561.637	525.089	559.734	536.424	537.440
DEAD	44.760	36.562	30.063	37.490	37.358
SHEEP AT THE END OF THE YEAR	767.599	679.839	645.992	643.384	619.044

Source: Central Bureau of Statistics

Sheep breeding in Croatia

GROWTH

.000 t	2005.	2006.	2007.	2008.	2009.
TOTAL	405	410	399	394	418
SHEEP	13	11	10	11	11

MEAT PRODUCTION

SHEEP AND GOATS	2005.	2006.	2007.	2008.
MEAT PRODUCTION, TOTAL (t)	7.502	6.825	6.868	7.474
HOME MEAT PRODUCTION (t)	6.967	6.190	5.735	6.327

Source: Central Bureau of Statistics

Sheep breeding in Croatia

MILK

SHEEP'S MILK .000 t	2005.	2006.	2007.	2008.
	7	7	6	8

WOOL

WOOL, t	2005.	2006.	2007.	2008.
	758	678	610	575

Source: Central Bureau of Statistics

Milk production

- 471 sheep's milk producers
- 3 major dairies – buy 84% of total sheep's milk deliveries
- increased interest of farmers in sheep's milk production

Sheep's milk delivered, per County

County	Sheep's milk delivered (kg)				
	2003.	2004.	2005.	2006.	2007.
Zadarska	492.337	672.372	740.066	898.644	1.048.240
Bjelovarsko-bilogorska	236.439	317.515	354.590	442.537	539.860
Virovitičko-podravska	126.007	196.052	254.451	294.044	352.851
Ličko-senjska	86.780	119.197	136.788	183.388	219.740
Istarska	85.430	82.255	122.051	135.863	146.945
Požeško-slavonska	78.043	92.924	110.629	108.161	110.102
Karlovačka	29.561	20.583	49.052	73.944	80.157
Varaždinska	18.635	19.852	14.849	15.454	14.949
Splitsko-dalmatinska	-	0	4.505	11.834	12.596
Primorsko-goranska	-	0	7.893	8.835	10.498
Zagrebačka	-	0	0	16.043	8.907
Šibensko-kninska	-	0	10.903	9.665	8.425
Total	1.184.181	1.536.287	1.809.110	2.198.926	2.553.270

Source: Croatian Agricultural Agency

Meat production

- Dominant production goal is meat production
- 93 % of registered sheep are bred exclusively for meat production and just 7 % of sheep are bred for milk production

Export / import data

- On the basis of Export / import data: production of sheep's meat is not self-sufficient

		IMPORT			
		2006	2007	2008	2009
		kom / kg	kom / kg	kom / kg	kom / kg
0104	LIVE SHEEP	51.858	92.644	93.794	76.760
0204	SHEEP MEAT	2.559.904	2.157.477	1.778.679	1.906.992
		EXPORT			
		2006	2007	2008	2009
		kom / kg	kom / kg	kom / kg	kom / kg
0104	LIVE SHEEP	122	331	-	232
0204	SHEEP MEAT	-	-	-	-

Consumption

- According to the Central Bureau of Statistics data average consumption of lamb meat in 2005. was 1,12 kg/a head

Sheep breeding in Croatia

➤ BREEDS:

- Istrian sheep
- Creska
- Krčka
- Paška
- Dubrovačka ruda
- Lička pramenka
- Dalmatinska pramenka
- Travnička pramenka
- Cigaja
- Rapska ovca
- Merinolandschaf
- Suffolk
- Romanovska
- Istočnofrizijska
- Solčavsko – jezerska
- Ile de France

System of classification of sheep carcasses



EU legislation

- Council Regulation 2137/92 of July 23, 1992 – classification system of ovine carcasses implemented for the first time
- Council Regulation 1234/2007 of October 22, 2007
- Commission Regulation 22/2008 of January 11 2008 – definition of the common rules for the ovine carcasses classification scale
- Commission Regulation 1249/2008 of December 10, 2008 - laying down detailed rules on the implementation of the Community scales for the classification of beef, pig and sheep carcasses and the reporting of prices thereof

Croatian legislation

➤ Livestock Act (Official Gazette no: 70/97, 36/98, 151/03 and 132/06)

Article 38. § 4: Detailed rules on the quality requirements and control of animal products is defined by the minister for agriculture.

➤ Food Act (Official Gazette no: 46/07 and 155/08)

Article 94. § 2: Detailed rules for the implementation of food quality rules (classification, categorisation, labelling) is defined by the minister for agriculture.

Ordinance on classification of sheep carcasses

- Official Gazette no: 30/10. entered into force on June 1, 2010
- Harmonized with:
 - Commission regulation 1249/2008 of 10 December 2008 laying down detailed rules on the implementation of the Community scales for the classification of beef, pig and sheep carcasses and the reporting of prices thereof

Ordinance on classification of sheep carcasses

➤ Definition of:

- conditions and criteria for classification and assessment of sheep carcasses and half-carcasses on the slaughter line
- procedure of sorting, grading and identification of carcasses and half-carcasses with prescribed signs
- the conditions to be met by persons who carry out the process of grading and evaluating and monitoring the performance of those functions

➤ Competence: MPRRR

➤ Organization of classification: HPA

Goals

- Unique standards and criteria of classification
- The introduction of a system that will form the market price according to objective criteria
- Increasing price transparency in the trade of sheep meat
- Support to the local production of sheep meat
– eg. paška lamb meat, creska lamb meat etc
- A prerequisite for traceability
- Computerisation of the system and the formation of a credible database

Classification scale

- Categories – S (>12 mj)
L ($\leq$ 12 mj)
- Heavier lambs (> 13 kg):
 - Classes – S E U R O P
 - Degrees of fatty tissue covering – 1 2 3 4 5
- Light lambs ($\leq$ 13 kg):
 - Grade – A ($\leq$ 7 kg)
B (7,1 -10 kg)
C (10,1 – 13 kg)
 - Categories – 1 2

Preconditions for the implementation of classification system

➤ Farm Register

- database of all farms in Croatia (source of data on sheep owners for classification system)

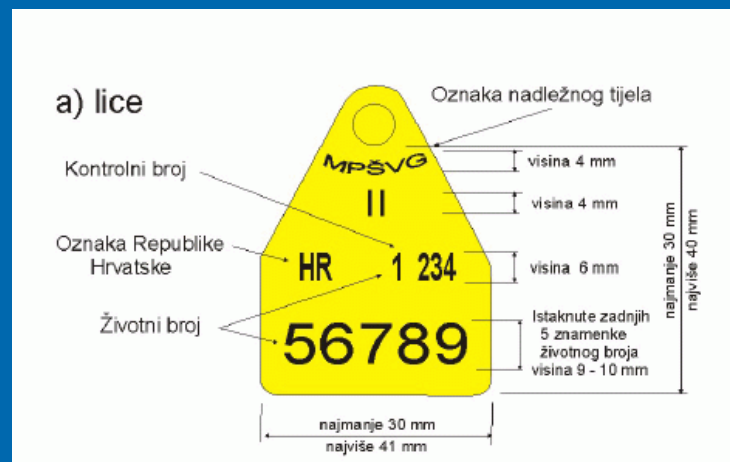
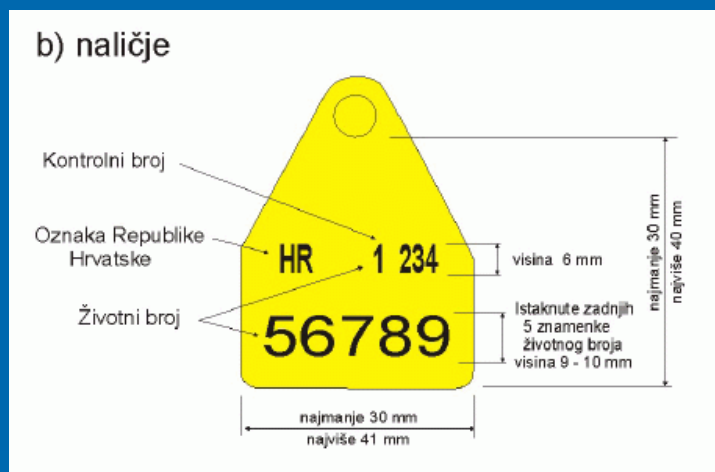
➤ system of identification and registration of sheep

- based on the Ordinance on mandatory identification and registration of sheep and goats (Official Gazette 111/07, 135/08, 154/08, 9/10)
- Identification labels of sheep are ear tag with unique life number; bolus with electronic transponder

➤ Components of bigger system of identification and registration of animals

Identification of sheep

A. Ear tag with life number



B. Bolus electronic transponder

- for all sheep born in Croatia after January 1, 2010

Training program for the classifiers

- Expert committee for implementation of training programs for the classifiers
- The expert commission composed of experts with appropriate knowledge and experience in evaluating quality of sheep carcasses
- HPA has issued a script “Handbook for evaluation of quality sheep carcasses and half- carcasses” to help candidates for the classifiers in mastering the required material

Training program for the classifiers

consisted of two parts

a) Theoretical part

- Lectures on the defined areas related to quality of sheep carcasses
- Testing, knowledge assessment (oral, written)



Training program for the classifiers

b) Practical part

- practical training in a slaughterhouse
- practical assessment and classification of sheep carcasses and half-carcasses in the slaughterhouse



Authorisation procedure for legal persons

➤ Requirements

- completed the training of classifiers
- obtain the accreditation of ISO / IEC 17020 for type A supervisory authority
- approval of the Ministry for Agriculture to perform classification of sheep carcasses and half-carcasses

Computer program for slaughterhouses – data entry

- On the slaughter line identification information about the sheep is entered in a computer program from the required documentation:

- Travel list
- Health certificate



EXCHANGE OF INFORMATION

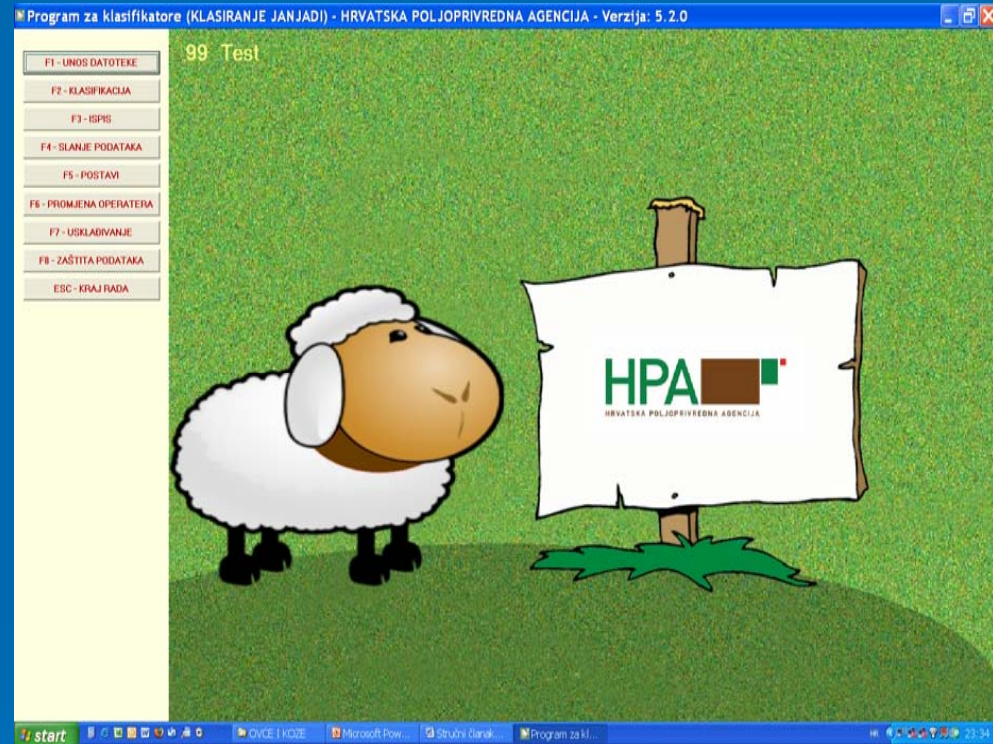
HPA

- IDENTIFICATION SYSTEM
 - FARM REGISTAR



Computer program for classifier

- PROGRAM PROTECTION:
 - classifier's Code
 - password
- ENTER DATA FOR DETERMINED QUALITY
- PRINT CODE FOR CLASSIFICATION
- PRINT REQUIRED REPORTS - NOTES
- EVERY DAY DELIVERY OF CLASSIFICATION DATA IN THE DATABASE OF HPA



Classification procedure - classifier

- determine the identity of carcass



Classification procedure - classifier

- determines the validity of slaughter and carcass processing and their slaughter mass according to the Regulation
- determines the category, class and degree of fatty tissue covering the carcass and half-carcass according to the Regulations
- keeps record of the classification done
- sends information about the classification electronically in a database HPA

Classification procedure

- Identifies classified carcass or half-carcass with prescribed mark

NAZIV KLAONICE

OB klaonice:

Datum klanja:

Redni broj klanja:

Klaonička masa:

kat. klas. st.pr.m.t

Država rođenja: tova: klanja

Br. klasifikatora:

Br. naljepnice:

Pasmina:

Datum rođ./dob:

Posjednik ovce:

NAZIV/IME POSJEDNIKA:

ADRESA POSJEDNIKA:

HPA

ZB OVCE

100 mm

60 mm

Test - Krunoslav
Test

OB klaonice

Datum klanja 01.07.2010

Redni broj klanja 1

Klaonička masa 15 kg

L S 3

Država rođenja tova: klanja

AR AR HR

Br. klasifikatora 99

Br. naljepnice 1

Posjednik ovce
IVAN DEČKO
Donji Tkalec 19
48265 Donji Tkalec

HPA

AR 45687

Test - Krunoslav
Test

OB klaonice

Datum klanja 01.07.2010

Redni broj klanja 1

Klaonička masa 15 kg

L S 3

Država rođenja tova: klanja

AR AR HR

Br. klasifikatora 99

Br. naljepnice 2

Posjednik ovce
IVAN DEČKO
Donji Tkalec 19
48265 Donji Tkalec

HPA

AR 45687

Control in slaughterhouses

- Control is carried out by HPA
- Control consists of:
 - Ensuring adequate technical conditions for the classifier's work
 - Proper work of classifiers according to the Ordinance

Supervision and control of classifiers

➤ CONTROL CLASSIFICATION

- at least twice a year in each slaughterhouse

➤ REPEATED CLASSIFICATION

- at the request of slaughterhouse or owner of sheep
- For procedures of the control, HPA has obtain in 2008 the status of an accredited inspection body according to HRN EN ISO/IEC 17020

Supervision of executives, legal persons

- HPA reports to the Ministry for Agriculture about possible irregularities
- Ministry defines period within which the identified irregularities must be set straight
- If the legal person in particular fails to act in accordance with the rules, Ministry takes away its authorisation and deletes it from the list of authorized legal entities

Questions?



THANK YOU FOR YOUR ATTENTION !

***CROATIAN AGRICULTURAL AGENCY
Department for Quality of Agricultural Products***

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