## ASS AND MEAT QUALITY OF FALLOW DEER

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Carcass value, dressing percentage of meat, and lean meat cuts share /hind legs, shoulder, saddle/ were hind legs, shoulder, saddle/ were killed in 3 various age categories /10-11, 15-Carcass value, dressing percentage of meat, and lean meat cuts share / line 100, male fallow deers / Damma dama/ raised on farm. They were killed in 3 various age categories / 10-11, 15-100, month of the whole year, and got hay and limited amount months/. The animals grazed in the meadows of the farm during the whole year, and got hay and limited amount the share was with animals at the age of 10-11 months / 76.9 %/. the winter period. The animals at the age of 13-17 House Market of meat / 59.0 %/, and the highest lean meat cuts share was with animals at the age of 10-11 months / 76.9 %/. 10.17 % / and less surface fat on the carcass, too.

and less surface fat on the carcass, too.

The meat quality in 34 male fallow deers raised on farm, killed at the age of 15-17 months was compared with 15 deers show the meat quality in 34 male fallow deers raised on farm had the meat quality in 34 male fallow deers raised on farm, killed at the age or 15-17 months was shot dead in free nature. Samples were taken from m.longissimus dorsi. Fallow deers raised on farm had dead in free nature. Samples were taken from m.longissimus dorsi. Fallow deers raised on farm had dead in free nature. Samples were taken from m.longissimus dorsi. Fallow deers raised on farm had deep scholesterol /0.69 mg.g -1/, and higher content of Content of intramuscular fat /1.30 % /, less proteins /22.93 %/, less cholesterol /0.69 mg.g -1/, and higher content of milesterol miles and miles are the second miles and miles are the second miles and miles are the second miles are the se mineral mathers /Fe, P, Ca, K, Na, and Mg/. Their meat was more pale with lower content of loose water mathers /Fe, P, Ca, K, Na, and Mg/. Their meat was more pale with lower content of loose water mathers /Fe, P, Ca, K, Na, and Mg/. Their meat was more pale with lower content of loose water mathers /Fe, P, Ca, K, Na, and Mg/. Their meat was more pale with lower content of loose water mathers /Fe, P, Ca, K, Na, and Mg/. Their meat was more pale with lower content of loose water mathers /Fe, P, Ca, K, Na, and Mg/. with lower cooking losses / 41.43 %/. It was more soft and of less marked aroma after cooking and baking. with lower cooking losses / 41.43 %/. It was more soft and of less manufactured the meat of DFD character not in a single one animal in both compared groups / pHu 6.2/.

There is a great tradition in venison export in Slovakia, the territory of which is covered by two thirds decisive part in it. New possibilities of raising of these animals are created There is a great tradition in venison export in Slovakia, the territory or which is constant are created for an and forests. Hoofed game takes decisive part in it. New possibilities of raising of these animals are created for a state of the states of the states and forests. Hoofed game takes decisive part in it. New possibilities of raising of these animals are created for the states of the tallised farms which belong to animal production. Experience from other states show /REINKEN, 1984; ASHER, which belong to animal production. that fallow deer / Dama dama/ is the most suitable animal for such type of raising in lower altitudes. The main task hew farms is production of fresch choice meat from young animals also out of hunting season. There is a great such to such the production of farms and checks farms is production of fresch choice meat from young animals also out of hunting season. The season for the part of breeders. The research is aimed at elaboration of optimum model of farms and checks are ficiency. was to farm animals from various aspects.

Was to compare the slaughter value in farm animals of various age categories as will as to compare the meat quality form farms and from free ranging animals in this work.

METHODS: We compared the carcass value slaughter yields of the carcass and of its individual parts in deep in the altitude of 250-300 METHODS: We compared the carcass value slaughter yields of the carcass and or its interval of the carcass and or its interval of the deer, in three age categories / at the age of 10-11/n= 7/, 15-17 /n=11/, and 22-23 /n=7/ months/. We took the limited amount of the Agricultural Enterprise /AE/ Neverice which has approx. 150 ha at its disposal, on the altitude of 250-300 the agricultural Enterprise /AE/ Neverice which has approx. and got meadowhay ad libitum, limited amount of The animals grazed in the meadows during the whole year, and got meadowhay ad libitum, limited amount of animals grazed in the meadows during the whole year, and got meadowhay ad libitum, limited amount of the animals grazed in the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year, and got meadowhay ad libitum, limited amount of the meadows during the whole year. with a rifle with a hit into the neck under the head on the farm. /We weighed them//Immediately after hand with a rifle with a hit into the neck under the head on the farm. The carcass was cooled at the with a rifle with a hit into the neck under the head on the farm. / We weighed them, / managed at the shot/ (so called live weight), they were hanged disembowelled and skinned. The carcass was cooled at the live weight), they were hanged disembowelled and skinned. The carcass was cooled at the live weight, they were hanged disembowelled, shoulder /so called lean meat cuts:, and into (so called live weight), they were hanged disembowelled and skinned. The carcass was certainly to 4°C for 24 h and then it was dissected into hing legs, saddle, shoulder /so called lean meat cuts:, and into the basis of weight. they fat was and flank. Their percentual representation in carcass was calculated on the basis of weight. to 24 h and then it was dissected in the bone, and flank. Their percentual representation in carcass was calculated on the basis of the bone, and flank. Their percentual representation in carcass was calculated to evaluate the fat covering of carcass.

The bone weighted and its percentual share in live weight was calculated to evaluate the fat covering of carcass.

The comparison group of weighted and its percentual share in the second trial. The farm AR Sedmihorky with the area of 26 ha, on the altitude 360 m above SL. We evaluated 34 males at the age of short a weight of animals before killing was 48.0 kg. The comparison group of hunting grounds, AE Sedmihorky with the area of 26 ha, on the altitude 360 m above SL. We evaluated of management of dead on the farm. The average weight of 45.5 kg. The animals were from various hunting grounds, With gaining animals consisted of 15 males with average weight of 45.5 kg. The animals were from various hunting grounds, and the place and hour when it was shot dead. Meat samples for laboratory analyses the dead on the farm. The average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were from various naturally consisted of 15 males with average weight of 45.5 kg. The animals were fr The standard of 15 males with average weight of 15 males consisted of 15 mal musculus longissimus dorsi behind the last rib in both groups. We determined the past and nutritional value of meat, and evaluated its physical, technological, and sensorial properties in the

nutritional value of meat, and evaluated us property, control of the personal characteristic and testing of differences between the groups were realised by means of the personal Commodore COLT.

RESULTS AND DISCUSSION: <u>Trial No 1</u> Results on carcass value, dressing percentage, and share of the individual particular carcass according to observed weight categories are also as a condition of the individual particular carcass according to observed weight categories are also as a condition of the individual particular categories are also as a ca carcass according to observed weight categories are given in table 1. Data collection during various seasons autumn/ is dow in order to check the possibilities of average of the individual seasons are given in table 1. We observed the average live weight before slaughter 25.04 kg in the age category 10-11 months, 42.40 kg at the age of 22-23 months. Months, and 42.81 kg at the age of 22-23 months. months, and 42.81 kg at the age of 22-23 months. We observed mostly lower weights than other authors give individual categories. GAEDE /1989/ noticed a gather line. individual categories. GAEDE /1989/ noticed e.g. the live weight 54.3 kg in 15-17 months old fallow deers, ASHER noticed 49.8 kg, and REINKEN /1990/ noticed 50.0 kg. BADTOO noticed 49.8 kg, and REINKEN /1990/ noticed 50.9 kg. BARTOS et al. /1989/ noticed the average weight 47.6 kg farm AE Sedmihorky in the conditions of the Czoch Barral III. farm AE Sedmihorky in the conditions of the Czech Republik. We did not find results for comparison for the category months old animals in professional literature. It is possible to months old animals in professional literature. It is possible to compare the category 22-23 months old fallow deeps category of 25 months old animals in works of authors as follows: category of 25 months old animals in works of authors as follows: FENNESY and DREW /1988/ give the average weight of and GREGSON and PURCHAS /1985/ give 60.0 kg, and GREGSON and PURCHAS /1985/ give 60.0 kg. The state of authors are follows: 63.0 kg, and GREGSON and PURCHAS /1985/ give 60.0 kg. These results are from New Zealand farms. Weight of the winter period was on average the same as before. ofter the winter period was on average the same as before. From the viewpoint of purchase with profit is important the weight of animals before slaughter but also the careaca with the viewpoint of purchase with profit is important. the weight of animals before slaughter but also the carcass weight and the slaughter yield as well as the lean cuts/lines shoulder, saddle/. The animals at the age of 15-17 months be determined. shoulder, saddle/. The animals at the age of 15-17 months had the highest dressing percentage of 59.0 %, It completely with hithertio data. GAEDE /1989/ gives the dressing percentage of 59.0 %, It completely the dressing percentage o with hithertio data. GAEDE /1989/ gives the dressing percentage of 59.0 %, It collected by the dressing percentage of 59.0 %, It collected by the dressing percentage of 58.1 %, SCHWARK et al. /1990/ 55.5 %, After the dressing percentage of 58.1 %, SCHWARK et al. /1990/ 55.5 %, After the dressing percentage of 58.1 %, SCHWARK et al. /1990/ 55.5 %, After the dressing percentage of 59.0 %, and MULLEY /1988/ and REINKEN /1990/

The lean meat cuts are of great importance for the meat producer, too, because they represent the decisive part of taking that the most lead to the second singly. It is interesting that the most lead to the second singly is interesting the second singly in the second singly is interesting the second singly in the second singly is interesting the second singly in the second singly is interesting the second single second singly in the second single second single second single second singly in the second single second single second single second sin the second single second single second single second single sec case they are sold singly. It is interesting that the most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals at the age of 10-11 most lean meat cuts /76.95 %/ were in animals which were cuts and there was also the highest share of hind legs /43.17 %/ in them. REINKEN /1990/ found the same trend. It is interesting that the most lean meat cuts /76.95 %/ were in animals at the age of 10-11 and DREW /1988/ give better dressing percentage of hind legs in leave.

Weight and share of kidney fat which indicate the total overfatness of carcass were significantly higher in animals killed after winter the state of the cold animals killed after winter the cold a autumn/category of 15-17 months/ than in animals killed after winter / categories of 10-11 and 22-23 months of back and the part of bac Poor surface covering with fat mainly in the part of back and loins corresponded with that fact in subjective evaluation.

Tab. 1

Carnaga	value	and	dressing	percentage	in	various	age	categories	

		Age in months		
		10-11	15-17	
		n=7	n=11	_
Live weight = after slaughter	kg	25.04	42.40	
Slaughter weight after cooling	kg	13.54	24.99	
Dressing percentage	%	53.95	59.07	
Kidney fat	kg	0.05	0.20	
	%	0.17	0.48	
Saddle /a/	kg	2.28	4.50	
	%	16.73	18.63	
Hind legs /b/	kg	5.84	10.15	
	%	43.17	40.62	
Shoulder /c/	kg	2.30	4.18	
	%	16.99	16.72	
Neck	kg	1.29	2.11	
	%	9.59	8.42	
Side with bone	kg	1.38	2.85	
	%	10.18	11.35	
Side without bone /flank/	kg	0.48	0.94	
	8/0	3.54	3.77	
Lean meat cuts /a+b+c/	kg	10.42	18.83	
	%	76.95	75.35	

Detailed results of chemical composition and nutritional value of meat of free ranging animals and of farm Detailed results of chemical composition and nutritional value of meat or free ranging and provided results of chemical composition and nutritional value of meat or free ranging and provided given in Table 2. Animals kept on farm had higher content of intramuscular fat /1.30 %/, less proteins /22.93 %, and less cholesterol /0.69 mg/g/ in meat. Siven in Table 2. Animals kept on farm had higher content of intramaceum 1.7.

Connective tissue proteins compared with the total oues /1.19 %/, and less cholesterol /0.69 mg/g/ in meat. harison's sake SCHWARK et al. /1990/ noticed the fat content from 1.1 to 1.5 %, and content of proteins about fallow deer from farm and in free ranging oues. FREUDENREICH and FISCHER /1989/ noticed 0.5 - 0.6 % fat in deer from farm and in nee range. as studied mineral matters are concerned /Table 3/ we found higher values in fallow deer from farm.

of free ranging animals, i.e. of fallow deer, too, offers broad culinary utilisation, and it is also used in production 's with meat products / BRITTIN, 1981/. For that reason it is necessary to know also the physical and technological Products /BRITTIN, 1981/. For that reason it is necessary to know also the physical products /BRITTIN, 1981/. For that reason it is necessary to know also the physical products /BRITTIN, 1981/. For that reason it is necessary to know also the physical products /BRITTIN, 1981/. For that reason it is necessary to know also the physical products /BRITTIN, 1981/. For that reason it is necessary to know also the physical products /BRITTIN, 1981/. For that reason it is necessary to know also the physical physical products /BRITTIN, 1981/. For that reason it is necessary to know also the physical Venison, and as the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of meat detects of DFD character when the case may be the occurrence of the case at not on hind la

1988/.
The form results in Table 4 that there was no difference between the groups in final pH value although the meat The farm results in Table 4 that there was no difference between the groups in man provided and the state of arm fallow deer has a trend to higher values , ... , and the standard of the solour of meat /% o

hat the significant difference in the colour of meat /% of remission/ either. Subjective evaluation of the colour of the colour of the lower average value /3.88/. SCHWARK et al. Notice significant difference in the colour of meat /% of remission/ entire. Subjective colours of the the meat of farm fallow deer is more pale, and it proves the lower average value /3.88/. SCHWARK et al. Noticed darker meat in free ranging animals, too.

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in this group. The difference was insignificant in baking losses.

[MR / in camples of cooked meat of farm fallow deer, i.e. impression. We noticed lower values of shear force /WB/ in samples of cooked meat of farm fallow deer, i.e. Impression. We noticed lower values of shear force /WB/ in samples or cooked field of the first meat. Results of sensorial evaluation of samples showed /Tab.5/ that the meat of fallow deer from farm has a decleries: Meat. Results of sensorial evaluation of samples showed /Tab.5/ that the meat of failer decembers aroma. The differences were not significant with other traits. This knowledge is interesting for those whole who is the state of the sensorial evaluation of samples showed /Tab.5/ that the meat of failer decembers were not significant with other traits. This knowledge is interesting for those whole who is the sensorial evaluation of samples showed /Tab.5/ that the meat of failer decembers were not significant with other traits. This knowledge is interesting for those whose whole who is the sensorial evaluation of samples showed /Tab.5/ that the meat of failer decembers were not significant with other traits. This knowledge is interesting for those whole who is the sensorial evaluation of samples showed /Tab.5/ that the meat of failer decembers were not significant with other traits. who look for venison because of its high dietary value but they do not like its very strong aroma.

Basic chemical composition

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					140.2	
		A		В		
		x	s	x	s	
Water	%	74.76	0.79	74.16	0.79	
Fat	%	1.30	0.61	1.02	0.38	
Proteins	%	22.93	0.72	23.87	0.86	
Ash	%	1.06	0.05	1.02	0.07	
Chnectin	ve tissue proteins	1.19	0.45	1.33	0.32	
Tholester	col mg/g	0.69	0.16	1.27	0.12	

share to total proteins

A = fallow deer from farm B = fallow deer from nature

Content of mineral matters in mg/100g

T	-	8-		
T	a	n	0	

	A	Bukana	В		
	x	s	x	s	
Fe P	4.76	2.48	1.97	0.75	
Ca	146.62	71.85	137.78	32.96	
K	17.81	12.57	10.01	2.26	
Na	312.57	93.04	273.93	49.77	
Mg	80.63	40.42	58.28	12.07	
-	46.55	18.63	37.75	16.15	

	A		В	В
	x	s	x	s
pHu	5.71	0.13	5.58	0.06
Colour /% of remission/	5.71	0.91	5.83	0.83
Colour /subjectively/	3.88	0.73	4.17	0.82
Content of loose water %	27.49	4.19	32.52	2.12
Cooking losses %	41.43	3.36	44.23	2.42
Baking losses %	42.47	3.60	42.23	5.02
Shear force of cooked meat,	kg 4.32	1.38	4.78	2.03
Shear force of baked meat,		2.15	6.07	3.35
				1

Sensorial properties	Te	Tab.5		
		A		
	x	s	x	s
Aroma	3.95	0.62	4.17	0.39
Flavour	3.89	0.32	3.92	0.29
Juiciness	3.42	0.51	3.60	0.65
Tenderness	3.75	0.54	3.83	0.83

CONCLUSION: On the basis of the gained results we can state:

- 1. The fallow deer raised on specialised farms achieves good slaughter yield mainly at the age of 15-17 months.
- 3. The animals killed after winter have lower content of kidney fat, and smaller amount of surface fat on carcass corresponds with this fact.
- 4. The meat of animals raised on farm has higher content of intramuscular fat less proteins, lower share of connective proteins, less cholesterol, and higher content of mineral matters.

  5. It is also more relative. 5. It is also more pale, has lower content of loose water, lower cooking losses, and it is more tender and of less interest aroma after cooking or baking.

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