



Registered and expected efficacy of the feeding hogs at large enterprises in Croatia 1990-2016

dr. sc. Marijan Sviben



Stočarstvo

LIST ZA UNAPREĐENJE STOČARSTVA u FNRJ

GODINA I. AUGUST 1947. BROJ 8.

Svinjogojstvo**Metodika rada kod hranidbenih pokusa sa svinjama**

Prof. dr. B. Horvat, Zavod za ishranu stoke — Zagreb

U članku, koji je izašao pod tim naslovom u 5 broju ovog lista, prikazana su načela, kojih se treba držati pri provedbi hranidbenih pokusa kod svinja. U njemu je iznesen jedan praktičan primjer, da se vidi kako se zasnivaju i provode takvi pokusi i kako se mogu iskoristiti dobiveni rezultati.

Kriterij za prósudivanje uspjeha tova jest, koliki je dnevni prirast i koliko hrane trošimo za prirast 1-kg žive težine, zatim kvalitet proizvoda, masti i mesa te njihov odnos.

Kontrolni pokusni tov je proveden kod nas prvi puta sa svinjama turo-polske pasmine i baguna na Srednjoj poljoprivrednoj školi u Križevcima u 1938. god. Za taj tov je uzeto po četveto prasadi od 5 krmača turo-polske pasmine i od četiri krmače bagunske. Prasad je pri dolasku na kontrolnu stanicu vagana i označena markicom. Daljnja vaganja su vršena svakog osmog dana ujutro prije hranidbe. Sva prasad dobila je jednaku hranu, koja se sastojala iz obranog mlijeka, smjese ječmenog, kukuruznog i pšeničnog brašna u razmjeru 1/2 : 1/4 : 1/4. Iza svakog obroka prasad je dobivala hladnu vodu.

Tokom tih pokusa je ustanovljeno za svaku grupu koliko je potrošila ukupno hrane te se iz toga izračunalo koliko je hrane bilo potrebno za 1-kg prirasta težine, a iz trajanja tova i ukupnog prirasta se izračunalo koliki je bio dnevni porast. Rezultate tova nam prikazuje slijedeća tabeła:

Iskorištavanje hrane za vrijeme tova i dnevni prirast.

pasmina	grupa	Potrošnja za prirast 1 kg	Dnevni prirast za vri-
		u kg škrobne vrijednosti za vrijeme tova od 20— 100 kg žive vage	
Turo-polska	I.	2,832	568
"	II.	2,878	555
"	VI.	2,958	541
"	VII.	2,887	572
"	VIII.	2,908	547
Baguni	III.	2,922	566
"	IV.	3,163	498
"	V.	2,942	548

(Pojedinačni o provedbi kontrolnog tova mogu se naći u radnji: Rezultati kontrolnog tova kod svinja turo-polske pasmine i baguna, Arhiv Ministarstva poljoprivrede Beograd savez, VII. godina 1939.)

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- Abstract Number 29252
- Theatre Session 69 [theme session]
- Nutritional and feeding strategies to face consequences of climate change ■ 14:00 – 18:00
- Chair G. Bruggeman

Izdavač: POSLOVNO UDRUŽENJE VETERINARSKIH STANICA ZAGREB

VETERINARSKI PRIRUČNIK

Treće izdanje

Zagreb, 1976.

$$\text{dnevni prirast} = \frac{T_K - T_P}{D_K - D_P}$$

gdje znači:

- T_K — težina tijela svinja na kraju razdoblja iskorištavanja,
 T_P — težina tijela svinja na početku razdoblja iskorištavanja,
 D_K — dob svinje na kraju razdoblja iskorištavanja,
 D_P — dob svinje na početku razdoblja iskorištavanja.

U Jugoslaviji se može očekivati, da svinje budu teške prosječno

dana života	kg
21.	5,10 — 5,80
56.	14,90 — 17,00
91.	28,90 — 32,40
196. d.	89,80 — 98,55

Navedeno se postiže uz dnevni prirast

od dana	do dana života	kg
2.	21.	0,190 — 0,220
22.	56.	0,280 — 0,320
57.	91.	0,400 — 0,440
92.	196.	0,580 — 0,630
2.	196.	0,454 — 0,498

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VETERINARSKI PRIRUČNIK

ČETVRTO, OBNOVLJENO I DOPUNJENO IZDANJE

Uredili

VJEKOSLAV SREBOČAN i HRVOJE GOMERČIĆ



JUMENA
ZAGREB 1989

Tablica 2. Količine krmne smjese za uzgajanje svinja i očekivane prosječne žive vage svinja najvažnijih pasmina na kraju 1–31. tjedna života

Kraj tjedna života svinja	Količina krmne smjese za jelo (g/dan)	Prosječna živa vaga svinja (kg)
1.	40	2,401
2.	100	3,801
3.	190	5,278
4.	278	6,958
5.	379	8,827
6.	490	10,885
7.	602	13,125
8.	727	15,547
9.	862	18,144
10.	1002	20,937
11.	1157	23,884
12.	1277	27,034
13.	1446	30,324
14.	1598	33,803
15.	1758	37,436
16.	1895	41,258
17.	2051	45,206
18.	2139	49,308
19.	2297	53,550
20.	2409	57,827
21.	2513	62,230
22.	2631	66,717
23.	2743	71,309
24.	2836	75,992
25.	2914	80,752
26.	2964	85,575
27.	3025	90,412
28.	3076	95,291
29.	3112	100,219
30.	3128	105,182
31.	—	110,159

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30th August 2018 ■ Thursday ■ 15:00 ■ Room Olipa 1

HRVATSKA POLJOPRIVREDNA AGENCIJA
CROATIAN AGRICULTURAL AGENCY

GODIŠNJE IZVJEŠĆE
O UZGOJU SVINJA ZA 2017. GODINU
ANNUAL REPORT FOR PIG BREEDING 2017

Križevci, 2018.

5. REZULTATI TOVA NA VELIKIM FARMAMA
FATTENING RESULTS AT ENTERPRISE FARMS

Velike fame su u 2017. godini povećale broj stavljenih grla u tov za 9,5% kao i broj isporučениh grla na klanje za 8,5% (tablica 22) u usporedbi sa podacima iz 2016. godine. Prema prikazanim podacima (grafikon 5) s linije klanja za T1 kategoriju s velikih farmi vidimo da je kroz zadnjih deset godina došlo do pove-

ćanja težine grla koja se isporučuju na klanje, a samim time i većih težina polovica. Prosječan postotak mesa kao i prosječna vrijednost kilograma mesa u polovicama u laganom je porastu s obzirom na povećanje težine grla koja idu na klanje.

Tablica 22. Rezultati tova na velikim farmama / Fattening results at enterprise farms

Broj grla stavljenih u tov No. of animals of fattening	Broj grla isporučenih na klanje No. of animals slaughter	Prosje. težina kod stavljanja u tov Average weight at start of fattening	Prosje. težina kod isporuke na klanje Average weight at the end of fattening	Trajanje tova (dana) Duration of fattening (days)	Dnevni prirast (grama) Daily gain (g)
40.474	37.176	23,43	115,81	98	913
40.962	36.906	24,29	112,74	99	863
36.454	34.103	22,60	111,93	103	839
37.040	34.576	23,86	114,48	99	878
53.618	49.986	25,53	114,38	96	904
34.831	33.051	23,96	112,53	103	830
52.722	49.767	24,74	112,40	105	819
12.569	5.730	23,75	112,16	117	749
655	522	26,85	108,80	135	610
15.944	13.814	30,03	142,21	140	800
54.980	57.054	29,80	140,10	135	820
33.758	32.670	29,80	140,80	134	828
4.216	4.151	29,44	143,03	139	820
14.008	13.679	34,00	137,00	124	830
8.150	8.027	26,49	115,70	99	901
10.068	9.230	21,90	116,06	130	750
7.650	6.965	17,29	107,13	94	970
14.506	12.527	21,90	116,06	120	780
20.277	19.811	24,06	116,75	102	908
492.882	459.745	25,51	120,34	110	849

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The feed conversion rates and daily gains observed in 1990 and 1994 at large hog feeding enterprises in Croatia vs. Expected ones according to the Veterinary Handbook 1989

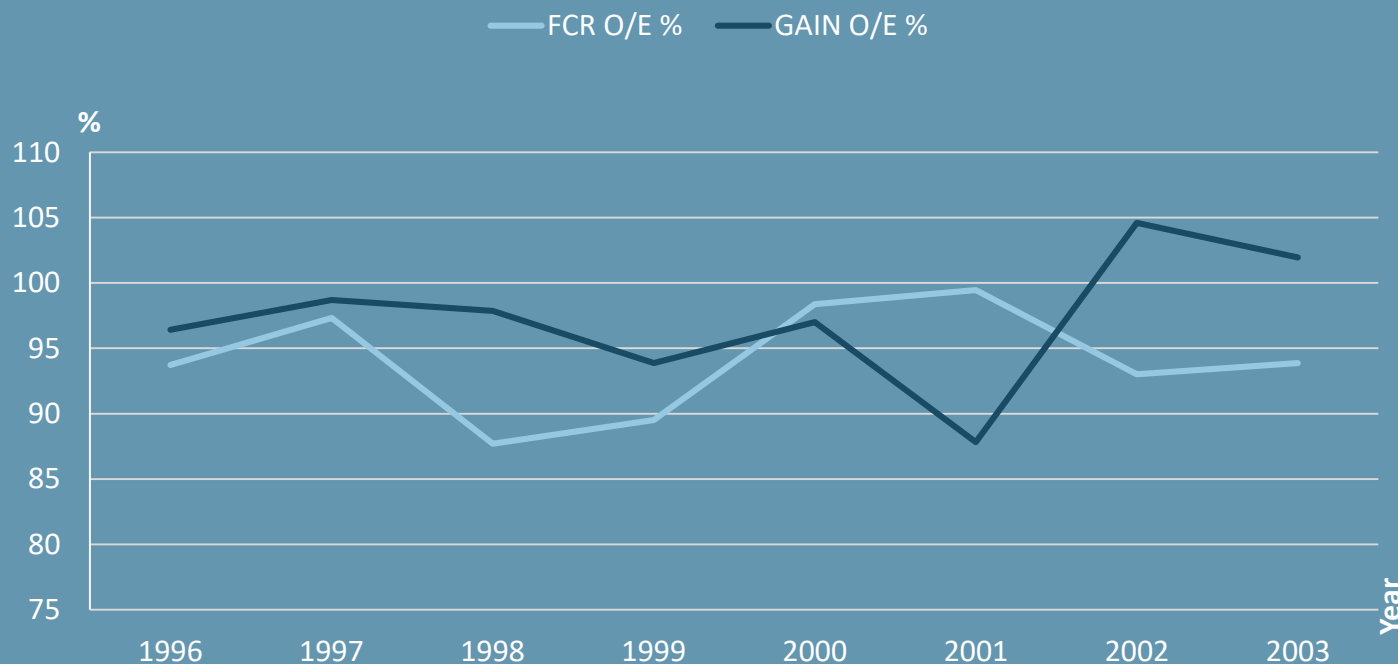
Year	Feed conversion rate [kg/kg]			Daily gains [g/d]		
	Observed	Expected	O/E [%]	Observed	Expected	O/E [%]
1990	3.77	3.80	99.21	607	620	97.90
1994	3.53	3.82	92.41	592	613	96.57

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The feed conversion rates and daily gains observed in years 1996-2003 at large hog feeding enterprises in Croatia vs. expected ones according to the Veterinary Handbook 1989

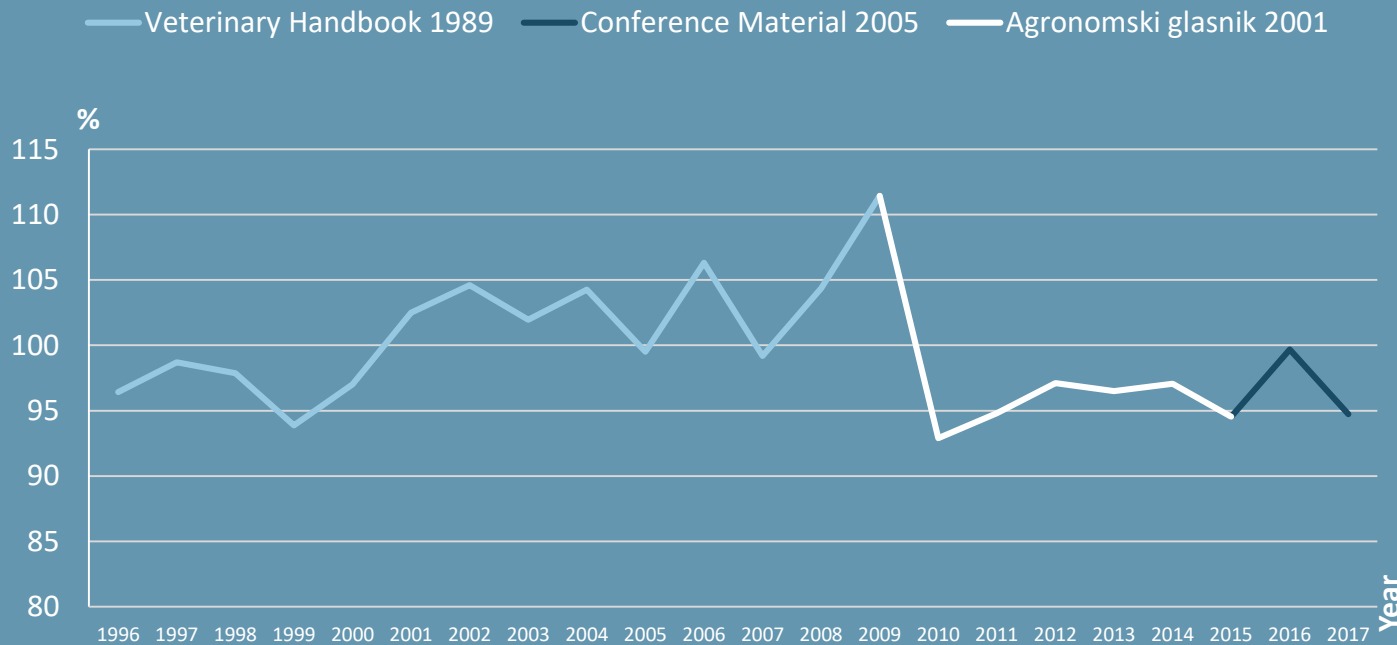


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The daily gains observed at large hog feeding enterprises in Croatia in years 1996-2017 vs. expected ones according to the data published in the Veterinary Handbook (1989), at the conference in Vrdnik (2005) and in Agronomski glasnik (2001)

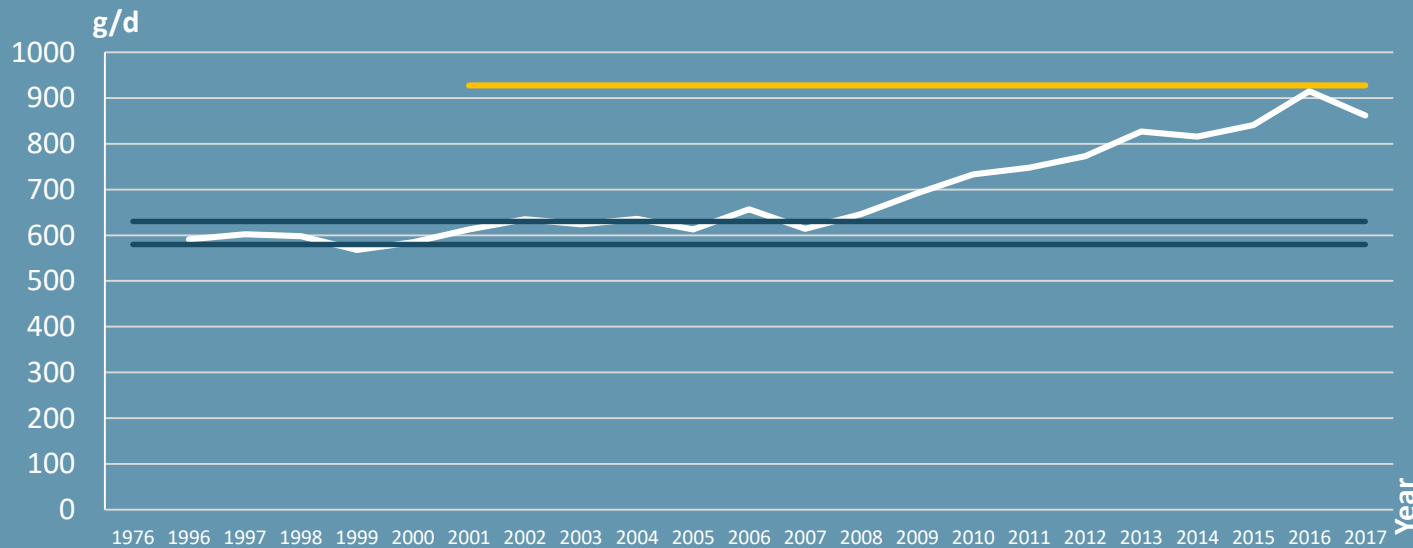


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The daily gains observed at large hog feeding enterprises in Croatia in years 1996-2017



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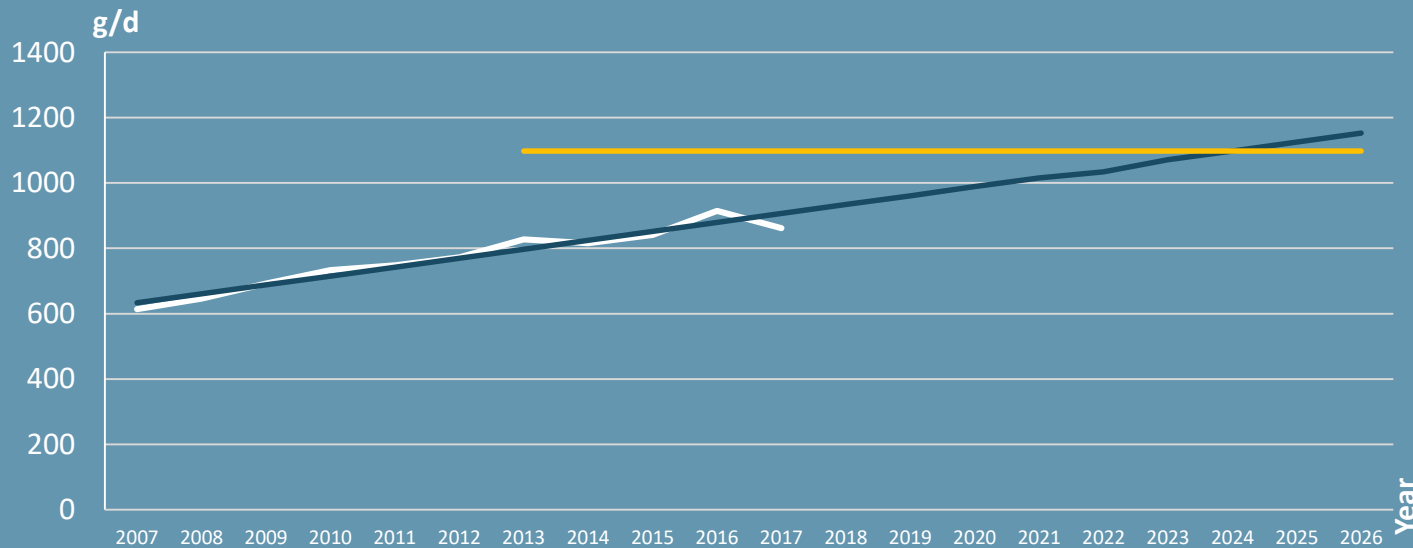
30th August 2018 ■ Thursday ■ 15:00 ■ Room Olipa 1

The daily gains observed at large hog feeding enterprises in Croatia in years 2007-2017 and the trend till 2016

$$Y_c = 769.87 + 27.34 X_c$$

$$X_c = \text{Year } 2012$$

— OBS g/day — Yc g/day — Improved yield - 1098 g/day (Sviben, 2001)



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Conclusions

The feed conversion rates observed at large hog feeding enterprises in Croatia from 1990 till 2003 were congruent to the magnitudes derived from the Veterinary Handbook published in Zagreb 1989.

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Conclusions

The daily gains observed at large hog feeding enterprises in Croatia from 1990 till 2017 were congruent to the magnitudes derived from the Veterinary Manual published in Zagreb in 1976 and from the Veterinary Handbook published in Zagreb 1989 from 1990 till 2008, they were congruous with the magnitudes published to be possible at the conference in Vrdnik (Serbia – Sviben, 2005) from 2010 till 2015 and in years 2016 and 2017 with the magnitudes according to the feeding programme for expected yield published in Agronomski glasnik (Sviben, 2001).

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Conclusions

The daily gains at large hog feeding enterprises in Croatia will be above the average of 1,098 g/day according to the feeding programme for improved yield (Sviben, 2001) in 2025, when the F.C.R. will be less than 2.0 kg/kg.

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Thank you for your attention ...

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