

Table of Content, 5 January 2012

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Research	Article (Abstract)	Do wn
Title/ Field		oac
EF	Original Research, B1	
FE	A. Farahi, M. Kasiri, M.	
C	Sudagar, M. Soleimani	
T		
0	Iraei, S.M.J.	
	Zorriehzahra	
F	Online J. Anim. Feed	
DI	Res., 2(1): 01-05, 2012.	
ET		
Α	ABSTRACT: This was	
R	conducted investigate the	
Y	effect of feeding lemon	
S	balm (Melissa officinalis)	l
U	and Aloe (Aloe vera)	
P	on growth performance,	1
PL	periormance, hematological	
E	parameters and	ł
M	oxidative stability o	ł
E E	rainbow trout. 360	
N	uniform rainbow	1
T	trout (20.87±0.25 g) were divided into 3	
	groups, and fed	ŀ
A	standard diets	l
TI	supplemented with	
0	ground lemon balm	ı
N	(2%, L group) or supplemented with	
0	1	ı
F Melissa	and without	l
officinalis	supplementation	
and <i>Aloe</i>	(Control, C group).	
vera	Growth	ļ
	performance and body composition	1
	were not influenced	ł
Oncorhy		
nchus	supplementation.	
mykiss)	Survival rate of fish	1
,	was promoted in diets supplemented	1
	with supplemented herbs,	
	significantly	
	(P<0.05). A	
	significant	
	enhancement	ļ
	(higher value) or WBC and Hct was	
	found in	l
	supplementation	
	compared with	1
	control (P<0.05). However,	
	any significant differences	
	(p>0.05) were not observed in	
	RBC and Hb in treatments (P>0.05). Results of	ı
	thiobarbituric acid value (TBA)	l
I	1	ı

showed that lemon balm and Aloe herbs could be protective against lipid peroxidation in fish meat during chilling storage (4°C, 7 days).

Key words: Lemon balm (Melissa officinalis), Aloe (Aloe vera), plants supplementation, Rainbow trout (Oncorhynchus mykiss)

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Original Research, B2 Y. H. Elhashmi, A. El Amin, F. A. Omer Online J. Anim. Feed

Res., 2(1): 06-09, 2012

ABSTRACT: This study was conducted to evaluate the growth pattern of muscles, bones and fat of guinea fowl Eighteen day old chicks were reared for 22 weeks and serial slaughters were done every four weeks for evaluation. Results showed that the feed conversion ratio was 1:5, highest feed intake at 13-14 weeks of age and highest weight gain at 8-10 weeks. Carcass yield was 69%. The great mass of muscle was found in the thorax, highest bone percentage was found ir the pelvis and the flank had high percentage of fat. Thorax and hind limb had high growth rate when compared with pelvis, wing, neck and flank.

Key words: carcass yield, body regions, serial slaughter

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EFFECT Original Research, B3 Hassan Mohammed Adam Sulieman and Omyia Ahmed Mohammed Khamis Online J. Anim. Feed Res., 2(1): 10-16, 2012 COMPOSI IN COMPOS			
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and ash content than fresh fish. The highest salt level (33%) resulted in significantly lower moisture content, and well wet-salted produced fermented product reasonably long storage shell life. The effect of different season's production time or wet-salted fermented product showed no significant differences in final product of wet-slated fermented fish species chemically. But there were differences in the duration of processing time, depending on ambient temperature. The study concluded that, the best fish species for production of . fassiekh product was the Labeo sp. in winter time with 25% slat concentration level treatment. The second and third were Hydrocyun sp. and Shelibe sp. respectively at the same slat concentration leve of treatment and season time.

Keywords: salt concentration levels, season, chemical, composition, wet- salted Fermented, fish species

Original Research, B4 Emenalom,O.O.,Obior a, A.B.,Okehie,U.N.

ALCHOR NEA CORDIFO LIA SEEDS Online J. Anim. Feed Res., 2(1): 17-22, 2012



ABSTRACT: This study was carried out to determine some anti-nutrient factors differently processed Christmas bush (Alchornea cordifolia) seeds and the effect of the processed seed meals on the performance and blood chemistry of broile chicks fed from 1 to 35 day of age. Ground and fermented, and dehulled Christmas bush (CB) seed meals were analyzed for their anti-nutrient contents whereas ground and sieved (GS), ground-sieved and fermented (GSF) and non-sieved and fermented (NSF) seed meals were incorporated into starter broiler diets to replace 10% of respectively. maize, Fermented and dehulled CB seed meals contain 574.4 and 21.3mg/100g phytic acid, respectively. Cyanide was not identified in any of the meals. Dehulling eliminated the anthraquinone and tannir

contents whereas fermentation only eliminated the tannin content. None or the methods completely eliminated the saponin. cardiac glycoside, flavonoid and alkaloid contents of the seed meals. With GS seed meal, broilers had lowei average daily weight gair (P<0.05) than the control group. Feed intake decreased P<0.05) but feed conversion ratio was not different when compared with control. Inclusion of GSF seed mea improved growth and feed intake when compared with the NSF seed meal and by day 35, growth and feed intake were comparable to those of the control birds. Blood plasma levels of alanine aminotransferase, alkaline phosphates and aspartate aminotransferase increased with GS CB seed meal diet, while serum calcium decreased. Neither raw noi fermented seed meals altered other measures of the blood chemistry. It is concluded that CB seeds contain toxid anti-nutrient compounds and that sieving out the hulls in the ground raw seed meal before fermentation improved the feeding value of the seeds for broilers at 10% replacement for maize.

Keywords: Alchornea seed; Anti-nutrients; Broilers Fermentation; Performance; Serum chemistry

SURVEY OF **PRODUC** TION AND **USE OF** POULTRY Online J. Anim. Feed Res., LITTER IN **KHARTO**

Original Research, B5 MB Elemam, AM Fadelelseed, OMA Abdelhadi, AO Idris, I **Bushara and AM Salih**

2(1): 23-26, 2012.

UM STATE, SUDAN

ABSTRACT: A survey of chicken litter production was undertaken by hand submitted guestionnaire. The survey covered 219 farms out of 612 registered in Khartoum state to provide information or amount and use of litter. The survey revealed that most poultry farms followed similar management practices. About 58.94% of litter production was estimated to come from broiler houses and 41.06%

from layer houses. It was



estimated that 70% of the litter production is litter-based and about 30% are droppings collected without litter. The amount of litter produced was estimated to be 95097.58 ton/year and 87.1% of this amount was used as fertilizer. Samples of broiler litter were collected and proximate composition was conducted to investigate the nutrient quality of broiler litter. Results obtained on dry matter (DM) and ether extract (EE) showed that there are significant (P<0.05) differences among three locations (Khartoum, Khartoum-North and Omdurman). However, there are no significant differences on other chemical compositions.

Key words: Poultry litter, survey, chemical composition.

Analysis of Linear Body Measure

Regressio Original Research, B6 😡 A .M .Musa, N.Z. Idam and K.M. Elamin Online J. Anim. Feed Res., 2(1): 27-29, 2012

ments on ABSTRACT: In Live Sheep

research, linear regressior Weight in models were improved for Sudanese estimation of body weight using various linear body Shugor measurements fron Sudanese Shugor sheep Simple regression models were formed when Body weight (Bwt) was dependent variable and hear girth(HG), height withers(HTW) and height at hip(HTH) as independent variables. The best derived prediction regression equation for estimation of body weight determinate by using beta (?) as the constant based on number of variables used for the equation, mean square error (MSE) and Coefficient determination (R^2) of

model

wither and height at hip

 $MSE = 9.39 \text{ and } R^2 = 0.61) \text{ for } R^2 = 0.61$ estimation of body weight ir Sudanese Shugor sheep in

best

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measurements

heart girth,

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this study.

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height



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	Keywords: _{Linear}	
	measurements, Body weight,	
	regression analysis, Shugoi	
	sheep, Sudan.	
	Original Research, B7	P
	M.E. A-Rahman Tibin,	
	A.B. Abol-Munafi, A.	
Echhornia		
	Hamid, H.M. Adam	
ci assipes		
)	Sulieman	
	Online J. Anim. Feed	
	Res., 2(1): 30-33, 2012	
	ABSTRACT: The objective	
	of this study to determine	
	the apparent digestibility	
	coefficients (ADC _s) of dry	
	matter, protein, gross energy	
	and fiber of five pelleted fish feed incorporated with	
	different	
	levels(0%,10%,15%,20% and	
	25%) of water hyacinth	
	(Echhornia crassipes) on	
	performance of red Tilapia	
	fingerlings, using chromium dioxide as an inert bio-	
	marker. Feeds were prepared	
	to be iso-nitrogenous	
	(35.00%± 0.20) and iso-calorid	
	(kcal/kg 4700.00±0.52).	
	Proximate compositions of	
	test feeds, fecal matter and chromium contents also were	
	determined. Results revealed	
	the maximum value of ADCs	
	for dry matter (DM) was found	
	in reference feed (68.09%),	
	while the minimum value was	
	found in (test diet 4) 4 (50.36%). Similarly, the	
	maximum ADCs values for	
	crude protein content, gross	
	energy, ether extract and	
	crude fiber were found in	
	control feed, while the	
	minimum values were found in the feed 4. The survival rate	
	was found to be significantly	
	low among studied fish fed	
	with feed 4. The study has	
	shown that red tilapia efficient	
	maximum digestion to	
	nutrients is only up to 20% inclusion of water hyacinth in	
	the feed.	
	u ie ieea.	
	Keywords: Apparent	
	digestibility, pelleted, water	
	hyacinth and fish	
Е	Original Research, B8	
F	Sharareh Ahmadvand,	
F	Hojattollah Jafaryan,	
Ε	Amin Farahi, and	
Ċ	Sheyda Ahmadvand	
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body

0 F F R 0 Ζ Ε Ν magna

Online J. Anim. Feed Res., 2(1): 34-39, 2012

ABSTRACT: Effect probiotic Protexin was experimentally tested or growth and survival 0 rainbow trout fry reared under controlled conditions. Experiments to determine the Daphnia effect of different levels of probiotic $(2\times10^4 (T_1), 2\times10^5)$ (T_2) and 2×10^6 (T_3) CFU/ g^{-1}) on growth and survival rates of rainbow trout in comparing Onchorh with those of control die ynchus containing no probiotic were mykiss) carried out under laboratory conditions. In this trail, frozen

magna

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Daphnia

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REARED considered as a basal diet for UNDER fry feeding. Rainbow trout offered the control diet exhibited the same growth and feed utilization with all CONDITIO experimental treatments, and no significant differences (P>0.05) in growth were observed among fish groups fed various levels of the probiotic. There was no effect of probiotic inclusion level or water quality. There was no effect of probiotio supplementation on survival at the end of experiment in T and T_3 , but survival rate in T_2 was higher than other groups, significantly Viability against (P<0.05). high temperature stress was affected by dietary probiotic inclusion, as supplemented diets by probiotic revealed the better and more efficient results in fish survival. Viability of T_2 , T_3 and control in challenging with high salinity was homogenous, while T_1 showed the significant difference (P<0.05) with others, properly.

> Keywords: Probiotic, growth, survival, rainbow trout (Oncorhynchus mykiss)

Relations hips between haemoglo bin (Hb) type and productiv e and

Original Review, B9 M. Abd-Allah, H. A. Hassan and M.A. Al-Baroadv O Online J. Anim.

Feed Res., 2(1): 40-44, 2012

reproduct_{ABSTRACT:} ive

Two hundred

performa Rahmani nce of ewes Rahmani seventy-o lambs relationsh

Rahmani
ewes and
seventy-one
lambs used
to study the
relationship
between the
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reproductive traits. Distribution of Hb types and allelid frequencies were higher for type AA of ewes, while for lamb's type BB was highei than type AA. Fertility rate was higher in ewes with the type of haemoglobin AA than ewes with type AB or BB. Hemoglobin type, year of mating and breed of sire were not significant effects on fertility, while, age of dam and season of mating had a significant (P<0.01 or P<0.05) effect on fertility. Autumn season was the best season in fertility (84%) compared to (60%) in summer and (64%) in winter season. Ewes sired by Rahmani rams had the (73%) highest fertility compared to those sired by Chios rams (66%). All factors (Haemoglobin type, age or dam, year of lambing, season of mating, and breed of sire) had no significant effect on litter size at birth. However, ewes with Hb BB produced more lambs than either ewes with HB AB or ewes with Hb AA. Also, ewes aged 4 years had the highest litter size at birth. Ewes mating during autumn season produced more lambs than those mating during summer. Haemoglobin type was not significant effect on body weights of Rahman lambs and F1 cross ½ C ½ R at all ages studied. Rahmani lambs with Hb AA had the lowest value of birth weight (4.05 kg vs. 4.14; 4.3 kg) compared lambs with Hb AB or BB, while lambs with Hb BB had highest weight at weaning 6, 9 and 12 months of ages. F1 (½ C ½ R) lambs with Hb AA had the highest weight at birth, 6, 9 and 12 months of age, while lambs with Hb BB had the highest weight at weaning age. Haemoglobin type was not significant effect on daily gain at all periods studied for both Rahmani and F1 (½ C ½ R) lambs. Generally, Rahmani and (½ C

	$\frac{1}{2}$ R) lambs with Hb AB had the lowest value of daily gain	
	at all periods studied than	
	lambs with Hb AA or Hb BB.	
	Idinios With Filo AA OF Filo BB.	
	Karruarda, baamaalahin tuna	
	Keywords: haemoglobin type, Rahmani ewes, reproductive	
	performance	
g	Original Research, B10	P
R		
0	M.A.M. Tibin, I.M.	
W	Tibin, and I. Bushara	
T		
H	Online J. Anim. Feed	
Р	Res., 2(1): 45-49, 2012	
er		
fo	ABSTRACT: The experiment	
r	was conducted to study the	
m	effect of changing the	
а	nomadic husbandry practices	
n	during summer with feed	
С	supplementation and water restriction on the performance,	
е	carcass characteristics of	
of	desert sheep (Hamari sub	
d	type). Thirty desert sheep of	
e	about 8 month age were	
S	randomly allocated to three groups (ten animals each, 5	
er	males and 5 females), group	
t	(A) watered daily and	
s S	supplemented with	
h	concentrates, (B) watered daily only and (C) watered	
e	every 2- 3 days and was	
e	considered as control (the	
р	normal nomadic husbandry).	
u	The results included that average final live weights	
n	were significantly (P<0.05)	
d	different among the groups	
er	and were not significantly	
-	affected by sex but males in group A were heavier than the	
gr az	other two groups. The tail	
in	length, height at withers, hear	
	girth, chest depth and body	
g c	length were significant (P<0.05) different between the	
0	three groups. The average	
n	daily live weight gain was	
di	significantly (P<0.05) different	
ti	among the groups, and the	
	highest rate of gain was in A followed by B and C,	
0	respectively. The average	
n	daily live weight gains	
S : NODTU	obtained were significantly	
in NORTH	(P<0.05) different between females and males of groups	
	A, B and C. The males gave	
AN	higher daily live weight gains	
STATE	than females. These results	
	concluded that management	
	strategy which involves shorter watering intervals and	
1	feed supplementation will	
	probably reflect positively on	
	•	

the performance of Hamar sheep under range conditions.

Keywords: Dessert sheep, growth performance, Body linear measurements concentrate ration, Sudan

Original Research, **B11**

HUS) JUVENILE S

CLARIAS S. Chowdhary, P. P. BATRAC | Srivastava, S. Mishra, A. K. Yadav, R. Dayal

> And W.S. Lakra Online J. Anim. Feed Res., 2(1): 50-57, 2012



ABSTRACT: A 84-days feeding trials was conducted to evaluate the use of animal and plant protein, combination with glucosamine source for Clarias Catfish, Asian batrachus (av. wt. 0.22±0.01 to 0.24±0.07g). Six (31.18 to 43.51 % crude protein, 369 to 399 kcal/100g, and crude lipid 0.0 to 6.69%) practical feeds were formulated. The animal and plant protein component of the feeds was progressively added with glucosamine 0.0, 0.5, 5.0 and 10.0 % with fish meal, silkworm pupae, soybear meal and casein (F-1, PAG 0:100:0.5; 0:100:5.0; 0:100:10.0; F-2, PAG F-3, PAG F-4. PAG F-5, 100:0:0.5; PAG 100:0:5.0; F-6, PAG 100:0:10.0; The experimenta feeds were fed to triplicate groups of fingerlings at 10% body weight per day and results were compared with control feed. Growth performance and feea utilization efficiency catfish, fed with anima proteins are better than those of plant protein. The best growth among the animal protein group (F-1 to F-3) was recorded in F-2 followed by F-3 and F1 containing glucosamine @5.0, 10.0 and 0.05 % Amongst the plant protein fed fishes showed best in F6 followed by F5 and F4. The survival was improved ir glucosamine supplemented feeds ranging from 49 ± 3.2 to 85 \pm 1.7 whereas the control

showed 41±1.8 %. Results indicate that animal protein rich feeds were much acceptable than alternative plant protein sources for the Asian catfish, batrachus and the potentia for replacing animal protein with soybean meal in the feeds of fish need more evaluation along with synergistic effects of growth promoter like glucosamine.

Key words: Clarias batrachus, glucosamine, animal protein, plant protein, growth

Original Research,

B12 Waleed N. El-Hawarry, Baheg R Nemaatallah, Asaad M Shinaway Online J. Anim. Feed Res., 2(1): 58-63, 2012

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ABSTRACT: A

study was made to investigate the effects of using carporal extract human chorionic gonadotropin,

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Antagonis releasing

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analogues (Receptal), with or without dopamine

hormone

hormone

2.

with or without dopamine antagonists on spawning performance parameters of silver carp. Results of the current study indicted successful induction of spawning silver carp using differen spawning agents. The breeding response and fecundity were comparable among al treatment groups Moreover, the curren experiment clearly indicated that the use o hCG, or mammaliar LNRH together with dopamine antagonists was more effective induction of ovulation and increasing fecundity and hatching rate compared to the other spawning stimulators used in the current study. The results also demonstrated thai using dopamine inhibitors potentiate the effect of the hormones used fo

spawning induction together with reduction of its dose (i.e. dose of carp pituitary extract, human chorionic

gonadotropin). Meanwhile,

established

that domperidone

is

preferred

than metoclopramide as dopamine antagonists for induction spawning fish. In view of these results it is clear that not only carp pituitary extract, chorionic human gonadotropin but also the mammalian LHRH analogue (i.e. Receptal) was effective to induce spawning in silver carp. This is important in the view of the fact that mammalian LNRH analogues are available more widely and their price is much more attractive. This would result in cost reduction of induced breeding by using mammalian LNRH analogues combination with a dopamine antagonist or alone.

Keyword: Silver carp, induced spawning, human chorionic gonadotropin, luteinizing hormone releasing hormone analogues, dopamine antagonists.

Original Research, B13

R. Dayal, P. P.

Srivastava, A.

Bhatnagar, S. Chowdhary, A.K.

Yadav and W. S. Lakra

Online J. Anim. Feed Res., 2(1): 64-69, 2012



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ABSTRACT: A 84-day feeding trial was conducted to evaluate the utilization impact of dietary omega – 3 HUFA as a dietary energy source by fingerlings of striped murrel, Channa striatus on the growth study and tissue composition. There were seven treatments (L3HUF, H3HUF, MUSOL, LINOL, MIXOL, SATOL AND NATFO), each having two replicates, stocked with 100 fingerlings in circular plastic pools (3001 capacity). The six

feeds were formulated with basic ingredients (Soybean meal, 41%; soluble starch 25%: Casein. 20% carboxy-methyl-cellulose, 2%, papain, 0.5%, vitamin and mineral mix, 3.5%) with iso-energetic (19.3 F1-F6) diets and results were compared with natural food fed fishes. The isocaloric diets were formulated fron semi-purified ingredients with six different types of oil supplement which were fed to replicate groups of fishes ad libitum. Based on the protein efficiency ratio (PER), specifio growth rate (SGR), average per day increment (PI) and food conversion ratio (FCR), and, it was observed that C. striatus fingerlings utilized dietary lipid. The LINOL showing best growth performance followed by H3HUF, MUSOL on the basis of SGR and PER were significantly (p<0.05) influenced in striped murrel, Channa striatus. But lower SGR levels were obtained with diets containing L3HUF, MIXOL, SATOL and NATFO This study suggests that the lipid from unsaturated origins could be effectively utilized by striped murrel fry with a better resultant growth.

Key words: lipid, utilization, growth, Channa striatus

Ρ Original Research, P **B14** 0 S H.K. Zanu, si P. Asiedu, M. Tampuori, bi lit M. Abada And ie I. Asante Online J. Anim. Feed s of Res., 2(1): 70-75, 2012. u si ABSTRACT: A six-week n feeding trial involving 180 2-week old Cobb broiler g chicks was conducted to M partially replaced fishmeal 0 (Moringa with Moringa RΙ oleifera) meal. The leaf Ν birds were randomly G assigned in equa Α numbers (Moringa Completely Design (idetary Randomized (CRD) to foui treatments LEAF containing 0, 5, 10, and MEAL AS 15% Moringa leaf meal

(MLM). Each treatment PARTIAL was replicated three times SUBSTIT giving 15 birds pei UTE FOR replicate. Feed and water FISHMEA were supplied ad libitum. The parameters measured include feed intake, final weight, BROILER weight gain, feed convention CHICKEN efficiency, carcass traits, hematology, serum biochemistry and mean quality.. Final weight, weight gain, feed conversion efficiency were significantly (p<0.05) declined increasing level of MLM. None of the carcass traits measured was affected by addition of MLM. Mean corpusculai hemoglobin (MCH) was the only hematological parameter that showed significance (p<0.05) difference treatment groups. Triglycerides, Low Density Lipoprotein (LDL) and Very Low Density Lipoprotein (VLDL) differed significantly (P<0.05). Also, Incorporation of MLM significantly (P<0.05) affected moisture, crude protein and crude fat of meat of experimental birds. Cost benefit analysis showed that incorporation of MLM increased profit margins. Based on the data obtained ir

> KEYWORDS: Moringa, Performance, Haematology, serum biochemistry and Mean quality.

blood variables.

this study it can be concluded that Moringa oleifera when partially used to replace fishmeal may hamper growth rate of broiler chickens. However, addition of MLM does not adversely affect mortality, carcass traits and

Εv alu ati on of fal se ya m (

Original Research, **B15** T. Ansah, A.A. Emelia, G. Deku and P.K. Karikari

Online J. Anim. Feed Res., 2(1): 76-79, 2012

Icacina

oliviformi conducted to determine the effect of Icacina oliviformis leaf meal (IOLM) on the growth performance of weaner Twenty-one rabbits with ar

Oryctola rabbits. weaner

gus s)





average initial weight of 661g cuniculu were used in a completely randomized design. The feeding trial lasted for 56 days at the livestock unit of the University for Development studies. The chemical analysis was carried out at the Spanish Laboratory of the University for Development studies. The variables measured were feed intake, apparent nutrient digestibility and body weigh gain. The average daily feed intake showed a significantly (P<0.05) higher intake for T2 (129.27g) compared with To (125.11g). Average daily body weight gain was significantly (P<0.05) higher for (17.65g) compared to T2 (10.83g). However there was no significant difference (P>0.05) between T0 (17.65g) and T1 (13.33g).There was a significantly (P<0.05) higher crude protein digestibility for T0 (84.68%) compared to T1 (80.99%) and T2 (67.08%). Apparent digestibility for CF and EE decreased with increase in the level of IOL in the diet. Based on the results of this study, IOL can be used as a feed ingredient in the diet of rabbits at 5% without any detrimental effects.

> Kevwords: Icacina oliviformis. Rabbits, performance, apparent digestibility

BIOSECU RITY **PRACTIC** ES IN **ALGERIA**

Review Article, B16 N. Alloui, A. Ayachi Online J. Anim. Feed Res., 2(1): 80-83, 2012

Ν **FARMS**



ABSTRACT: The objective of POULTRY this study was to determine the level of adoption within the Algerian poultry farms (broiler chickens, laying hens) of a range of standard biosecurity practices (isolation. traffic control. decontamination, Quantitative vaccination...). and qualitative evaluation of the biosecurity in the poultry houses has been analyzed thanks using method developed by the French Food Safety Agency. Factorial analysis permitted to determine four classes of poultry farms. Class 1 and 2 (55%) regroup poultry farms very badly maintained, with breeders which do not respect the

elementary hygiene measures (precarious buildings, impure water non-respect of the sanitary vacuum, badly disinfection, presence of contamination vectors, bad elimination loose chickens...). The two classes are a score between, 0 - 100 points and UFC (faeca streptococci) > 25. Class 3 and 4 regroup 45% of poultry farms and demonstrates that the number of faeca streptococci colonies /25 cm² is the lowers (3<UFC<9) and (10<UFC<25) respectively. Ir these farms, the sanitary teams apply very rigorous barriers of security and decontamination. Visual score attributed for these classes represents unfortunately score between, 100-200 points. The of production performances (mortality, feed conversion, and laying rate) especially observed in the poultry farms, class 1and 2, because of failings sanitary barriers in production period.

Keywords: poultry farms biosecurity, production performances, Algeria

Original Research, **B17**

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acclimation

Waleed N. El-Hawarry

Online J. Anim. Feed

Res., 2(1): 84-88, 2012

Oreochr

omis ABSTRACT: Oreochromis Niloticus niloticus,

mis

Aureus)

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Their

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Oreochromis aureus and their interspecific hybrid tilapia ? O. aureus x ? 0 Oreochro niloticus) maintained under semi-intensive culture system were compared in preliminary study the variations explore Interspe |in blood biochemica and non-specific Hybrid (|immunological

? 0. Aureus performed X ? O.

week Niloticus) ("base-line" Maintaine Serum albumin, d In nsive

level) cholesterol. SGPT and Semi-Inte | SGOT level | ignificantly | higher were s (P 0.05) in the purebred O. Culture aureus than the purebred System 0. niloticus and

of

parameters.

Comparisons



crossbred hybrid. The tested genotypes showed no significan 0.05) difference protein total globulin Additionally, urea and the levels of ALT and uric acid were significantly highe 0.05) both 20. aureus the hybrid crossbred (?0. aureus 20 On niloticus). the other hand, the leve of creatinine was significantly highei the purebred 0 niloticus followed by the crossbred hybrid and purebred then the 0 aureus but still without significant difference (P 0.05) between the lattei two genotypes. The phagocytic activity and phagocytic index were significantly higher (P < 0.05) in the crossbred hybrid (?O. aureus x ?O. niloticus) than the othei purebred genotypes. The differences identified suggest that hybrid families from the two species would be used to construct a segregating population for genetic analysis of immunological traits in tilapia. But still, a largei sample size obtained from populations cultured unde different managemental practices should be used and challenged to learn if the differences are large enough to produce a segregating population for genetic analysis of immunological traits and disease resistance.

Keywords: Purebred,

Oreochromis niloticus,
Oreochromis aureus,
inter-specific hybrid tilapia
normal blood biochemical
reference, phagocytic activity,
phagocytic index.

Mini Review, B18



P

physicoc hemical compositi on of selected

Adzitey F.

Online J. Anim. Feed Res., 2(1): 89-94. 2012.

duck strains: Physicochemical a mini review

ABSTRACT:



composition of meat is an important factor in human nutrition and contributes to the choice of food by mankind. In recent times humans are much conscious of the health benefits of what they consume. Emphasize or the consumption O balance diets have been much attention. aiven The consumption organic foods vegetables, fruits, foods high in fibre, foods o animal origin with less fat and cholesterol are among the food stuffs being upheld. Poultry meat, eggs and products are widely consumed worldwide without much religious restrictions. The high consumption poultry meat is partly due to it ease for preparing different dishes and the development of a wide range of processed ready-to-eat meals incorporated with chicken major as protein source. Poultry meat (white meat) known to be healthier than red meat probably due to its low calorie and lipid contents. Duck mea is comparable to that of despite chicken being red meat and it is a close alternative source o protein and other nutrients for humans. Duck meat is high ir protein, iron, selenium and niacin; and lower in calories compared to many cuts of beef. This mini-review reports on the production potentials of ducks and the physicochemical composition of selected duck strains. I also reports on world duck population.

Key words:

Duck meat. consumption health benefits,

nutrition, physicochemical

date pits on the performa

Effect of Original Research, **B19** Yagoub YM, Elemam MB. 2012.

nce of Sudanes e desert lambs

Online J. Anim. Feed Res., 2(1): 95-97.

ABSTRACT: Twelve



Sudanese desert lambs with an average live weight of 20.9 kg were divided into three groups of equal number to study the effect of date pits level on the performance of Sudanese desert lambs. The study was conducted at small ruminant research unit in the Faculty of Agricultural Technology and Fish Al-Neelain Sciences. University Khartoum, Sudan. Three iso-nitrogenous and iso-caloric diets containing graded levels of date pits (0%, 5%, and 10%) were randomly assigned to the lambs groups Feeding was on ad libitum for 45 days. Performance of experimental lambs did not significantly influenced with introduction of date pits.

Key words: Lambs, date pits, chemical composition, performance

Estimatio
n of live
body
weight
from
linear
body
measure
ments for
Farta
sheep

Original Research, B20



Taye M, Bimerow T, Yitayew A, Mekuriaw SH, Mekuriaw G.

Online J. Anim. Feed Res., 2(1): 98-103. 2012.



ABSTRACT: A study, develop regression models for prediction of body weight from other linear body measurements, was conducted in Esite, Farta and Lai-Gaint districts of South Gondar. Amhara region. Records on body weight (BW) and other linear body measurements (Body Length (BL), Wither Height (WH) Chest Girth (CH), Pelvic Width (PW) and Ear Length (EL)) were taken from 941 sheep. Non-linear, simple linear and multiple linear regression models were developed using Statistical Package for Social Sciences (SPSS version 12.0). For the multiple linear regressions, step-wise regression procedures were used. Predicting models were developed for different age, sex and for the pool. Positive and significant (P<0.01) correlations were observed between body weight and linear body measurements for all sex and age groups. Among the four linear body measurements, heart girth had the highest correlation coefficient (except ear length) in all age and sex groups which is followed by body length, height at wither and pelvic width. Heart girth was the first variable to explain more variation than other variables in both sex and age groups. The models developed had a coefficient of determination of 0.26 to 0.89; the highest coefficient of determination was depicted for male while the lowest was for dentition groups having two permanent incisors. Regression models in general were poor in explaining weight for the dentition groups above one pair of permanent incisors. Heart girth alone was able to estimate weight with a coefficient of determination of 0.77, for both sexes and the pool. The coefficient of determination of the fitted equations (in general) decreased as the age of sheep advances indicating that the fitted equations can predict weight for younger sheep with better accuracy than for older ones. Ir general, much of the variation in weight was explained when many traits were included in the model. However, for ease of use and to avoid complexity at field condition, it is possible to use heart girth alone as a predicting tool. As a method to estimate weight using linear body measurements, it is possible to use these linear body measurements for selection in an effort to improve body weight of Farta sheep. In addition, the difference in the correlation coefficients between weight and other linear measurements for different age groups indicates the possibility of using different body measurements different ages to predict weight and use for selection as well.

Key words: Farta sheep, body weight, linear body measurements, regression model