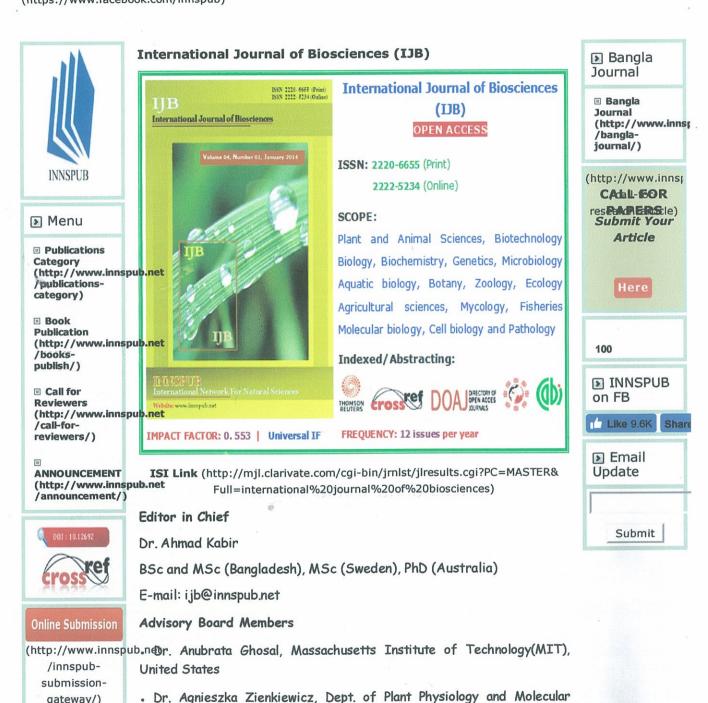
- # Home (http://www.innspub.net) Login (http://rjm.innspub.net/)
- Register (http://www.innspub.net/innspub-submission-gateway/)

International Network For Natural Scien

(http://www.innspub.net)

(https://www.mendeley.com/groups/7785741/international-network-for-natural-sciences-innspub/papers/) (http://bd.linkedin.com/pub/inns-pubnet/61/316/906/) 🔉 (https://plus.google.com/+INNSPUBNETinnspub) 📘 (https://twitter.com/Innspub1) 🔯 (https://scholar.google.com/citations?user=PWgKEp8AAAAJ&hl=en) 🌠 (https://www.facebook.com/innspub)



Dr. Abul Mandal, School of Life Sciences, University of Skovde, Sweden

2/12/2018, 4:38 PM

gateway/)

Biology of Plants, Nicolaus

Copernicus University, Poland

Home (http://www.innspub.net) Login (http://rjm.innspub.net/)

Register (http://www.innspub.net/innspub-submission-gateway/)

International Network For Natural Sciences

(http://www.innspub.net)

(https://www.mendeley.com/groups/7785741/international-network-for-natural-sciences-innspub/papers/) in (http://bd.linkedin.com/pub/inns-pubnet/61/316/906/) (https://plus.google.com/+INNSPUBNETinnspub) (https://twitter.com/Innspub1) (https://scholar.google.com/citations?user=PWgKEp8AAAAJ&hl=en) (https://www.facebook.com/innspub)



Volume 6, Number 3, February 2015 - IJB

Essential oil production of dill affected by different intercropping patterns with berseem clover and harvesting times

Parviz Karimzadeh, Saeid Zehtab-Salmasi, Jalil Shafagh-Kalvanagh, Hossein Janmohammadi

Int. J. Biosci. 6(3), 1-6. (Full Text) (http://www.innspub.net/wp-content/uploads /2015/02/IJB-V6No3-p1-6.pdf)

doi: http://dx.doi.org/10.12692/ijb/6.3.1-6

(http://dx.doi.org/10.12692

/ijb/6.3.1-6)

Category (http://www.innspub.net

/publicationscategory)

Publications

Menu

publish/)

Call for

Effects of elemental sulfur and soil compaction on microbial biomass

Book carbon and soil enzyme activities

Publication

(http://www.innspub.net. /books-

Int. J. Biosci. 6(3), 7-14. (Full Text) (http://www.innspub.net/wp-content/uploads/2015/02/IJB-V6No3-p7-14.pdf)

Reviewers (http://www.innspubjet /call-for-

by the http://dx.doi.org/10.12692/ijb/6.3.7-14 /ijb/6.3.7-14)

(http://dx.doi.org/10.12692

reviewers/) /ijb

ANNOUNCEMENT

(http://www.innspubanetomprehensive surviving on application and diversity of biofilms in /announcement/) seafood (review)



Zeinab Noorihashemabad, Seyed Mehdi Ojagh, Alireza Alishahi

Int. J. Biosci. 6(3), 15-30. (Full Text) (http://www.innspub.net/wp-content/uploads/2015/02/IJB-V6No3-p15-30.pdf)

doi: http://dx.doi.org/10.12692/ijb/6.3.15-30 (http://dx.doi.org/10.12692/ijb/6.3.15-30)

Online Submission

(http://www.innspub.net

/innspubsubmissiongateway/)

Twiitter

Feed

Increasing duck egg production using grow enhancer treatment

Jeane Loing, Budi Setiawan, Muhaimin Wahib, Ratya Anindhita, Eddy Lengkong

Int. J. Biosci. 6(3), 31-35. (Full Text) (http://www.innspub.net/wp-content/uploads/2015/02/IJB-V6No3-p31-35.pdf)

doi: http://dx.doi.org/10.12692/ijb/6.3.31-35 (http://dx.doi.org/10.12692/ijb/6.3.31-35)

Bangla Journal

BanglaJournal(http://www.innsp/banglajournal/)

CALL FOR
PAPERS
Publish Your
Article

Here

3

INNSPUB on FB



Email Update

Submit

Popular Papers

Canopy
 interception on
 tree
 architecture
 models of...
 (http://www.inn
/jbes/canopy interception on-tree architecture modelsof aubreville stone-and-

2/12/2018, 4:27 PM



@Innspub1

Response of cut carnation (Dianthus caryophllus L.cv. Tempo) to INNSPUB Journal oils and antimicrobial compounds

Davood Hashemabadi, Behzad Kaviani, Ali Shirinpour, Dina Yaghoobi Microbiological and

toxicological qualities pffhe], Biosci. 6(3), 36-44. (Full Text) (http://www.innspub.net/wp-content water of watering useduploads/2015/02/IJB-V6No3-p36-44.pdf)

urban agriculture in Cotonou http://dx.doi.org/10.12692/ijb/6.3.36-44 (http://dx.doi.org/10.12692 (Republic of Benin) - JAAR innspubnet.wordpress.com/20

18/02/12/mic...

ng of freezing tolerance in some dwarf selected mahaleb

Ganj Moghadam, Esmail Faramarzi, Ahmad Fahadan, Zahra Shabani

Biosci. 6(3), 45-53. (Full Text) (http://www.innspub.net/wp-content /uploads/2015/02/IJB-V6No3-p45-53.pdf)

doi: http://dx.doi.org/10.12692/ijb/6.3.45-53 (http://dx.doi.org/10.12692 $^{-.45-53}$

INNSPUB Jour... @Innspub1

Assessing of canadian water Effect of gibberllic acid (GA3) foliar on some physiological traits and sustainability index (CWSI) in ahwaz county located in south

west of Iran - JBE\$ Amirhossein Khazeh, Zahra Khazeh, Hamid Jabari, Maryam Teymur Gashtegany, innspubnet.wordpressMathrolch Hashemybagha

18/02/10/ass...

Int. J. Biosci. 6(3), 54-61. (Full Text) (http://www.innspub.net/wp-content s/2015/02/IJB-V6No3-p54-61.pdf)

http://dx.doi.org/10.12692/ijb/6.3.54-61 (http://dx.doi.org/10.12692 54-61)

Effect of gibberllic acid (GA3) foliar on some physiological traits and Feb mounts of pigments in Vigna radiate L

Amirhossein Khazeh

Int. J. Biosci. 6(3), 62-69. (Full Text) (http://www.innspub.net/wp-content /uploads/2015/02/IJB-V6No3-p62-69.pdf)

http://dx.doi.org/10.12692/ijb/6.3.62-69 (http://dx.doi.org/10.12692 doi: /ijb/6.3.62-69)

Response of yield and yield components of rice (Oryza sativa L. cv. Shiroodi) to different phosphate solubilizing microorganisms and mineral phosphorous

Hossein Ebrahimi Chamani, Esmaeil Yasari, Hemmatollah Pirdashti

Int. J. Biosci. 6(3), 70-75. (Full Text) (http://www.innspub.net/wp-content /uploads/2015/02/IJB-V6No3-p70-75.pdf)

http://dx.doi.org/10.12692/ijb/6.3.70-75 (http://dx.doi.org/10.12692 /ijb/6.3.70-75)

Effect of rooting beds, IBA concentrations and bottom heat on rooting of plane tree (Plantanus orientalis L.) cuttings

Leila Tagipoor, Hasan Mahmodzadeh, Zohre Jabarzadeh

leeuwenbergin-lore-lindunational-parkareaindonesia/) (1,186)

Abundance,

length -

weight relationships and... (http://www.inn /ibes/abundance length-weightrelationshipsand-fultonsconditionfactor-of-thefreshwatercichlidsarotherodongalilaeuspiscesteleosteiperciformesfrom-a-sand-

dragged-man-

made-lake-of-

- so/) (960) Identification of disordered regions and potential active... (http://www.inn /ijb/identification of-disorderedregions-andpotentialactive-sitesfrom3hydroxy-3-methylglutaryl coa-reductaseof-triticumaestivum-I-usingtheoreticalapproach/) (922)
- Nutritional assessment of semifermented fish product (Chepa (http://www.inn /ijb/nutritionalassessmentof-semifermentedfish-product-

Int. J. Biosci. 6(3), 76-82. (Full Text) (http://www.innsp	ub.nodrt¢pap-sdoundeint from-three-
/uploads/2015/02/IJB-V6No3-p76-82.pdf) doi: http://dx.doi.org/10.12692/ijb/6.3.76-82 (http://dx	different- .doi.org/10.12692 regions-of-
/ijb/6.3.76-82)	bangladesh/)
	(669)
	Estimating
Effective and economic storage of wheat seed in straw-cl	- and the second
Shakeel Hussain Chattha, Che Man Hasfalina, Teang Shui L Mirani, Muhammad Razif Mahadi	paiiii (Eideis
Int. J. Biosci. 6(3), 83-93. (Full Text) (http://www.innsp	(http://www.innspub.net
/uploads/2015/02/IJB-V6No3-p83-93.pdf)	/estimating- stored-carbon-
doi: http://dx.doi.org/10.12692/ijb/6.3.83-93 (http://d:/ijb/6.3.83-93)	.doi.org/10.12692 stock-in-oil-
, 92,	palm-elaeis- quineensis-
	jacq-
Optimization of extraction the red cabbage extract	withlautatasound
technology, assisted by response surface method	age-group-in-
Deibanch Ahmadradah Chavidal Zahra Shaikhalaslami Sagad	pt-daria-
Reihaneh Ahmadzadeh Ghavidel, Zahra Sheikholeslami, Saeed	dharma-
<pre>Int. J. Biosci. 6(3), 94-100. (Full Text) (http://www.innsp /uploads/2015/02/IJB-V6No3-p94-100.pdf)</pre>	plantation-
	bengkulu- .doi.org/10.12692 indonesia/)
/ijb/6.3.94-100)	(664)
	• Effect of
a state of inches were	Cassia siamea
Assessment of allelopathic effects of juglans regia properties of four leguminoseae species	on ange Griffication sepium leaf
properties of four regulatioseae species	in
Melika Hashemi, Mojtaba Akhavan Armaki	(http://www.innspub.net
Int. J. Biosci. 6(3), 101-108. (Full Text) (http://www.innsp/uploads/2015/02/IJB-V6No3-p101-108.pdf)	ub.n/eigwpeffgstent of-cassia-
	siamea-and- .doi.org/i10a12692
/ijb/6.3.101-108)	sepium-leaf-
ý	in-controlling-
	weed-of-
The effect of biological promoters on thyme plant in diffe	
Mehdi Rezaei Sarkhosh, Bohloul Abbaszadeh, Mohammad Rez Rezaei	the
	madhupur-
Int. J. Biosci. 6(3), 109-115. (Full Text) (http://www.innsp/uploads/2015/02/IJB-V6No3-p109-115.pdf)	bangladesh/)
doi: http://dx.doi.org/10.12692/ijb/6.3.109-115 (http://dx	
/ijb/6.3.109-115)	Diversity in
	Mt. Matutum
The state of the state of deleving first feeding	Protected
Resistance to fasting and effect of delaying first feeding survival in african catfish <i>Heterobranchus bidorsalis</i>	arvaeutGeoffroy (http://www.innspub.net
Saint-Hilaire, 1804)	/ibes/reptile-
Yao Laurent Alla, Nobah Céline Sidonie Koco, Kouamé Frédér Roland Lebon, Mélécony Célestin Ble, Ouattara Mamadou	c Afforemous in Kedi mt-matutum-
7 -	
Int. J. Biosci. 6(3), 116-123. (Full Text) (http://www.innsp./uploads/2015/02/IJB-V6No3-p116-123.pdf)	landscape-
doi: http://dx.doi.org/10.12692/ijb/6.3.116-123 (http://dx	
/ijb/6.3.116-123)	philippines/)

	(533)
Effects of nano zinc and humic acid on quantitative	สานีขอ ในสมักร ิสห์ve
characteristics of savory (Satureja hortensis L.)	promising
	lines in rice
Zahra Najafi Vafa, Ali Reza Sirousmehr, Ahmad Ghanbari	Iseoryzbasnemari,
Noosheen Falahi	L.) to
Int. J. Biosci. 6(3), 124-136. (Full Text) (http://www.innsp /uploads/2015/02/IJB-V6No3-p124-136.pdf)	ub.net/wp/content /ijaar
/uploads/2013/02/13b-V0N03-p124-130.pdi/	/evaluation-of-
doi: http://dx.doi.org/10.12692/ijb/6.3.124-136 (http://d:	.doip pog vill@nig2692
/ijb/6.3.124-136)	lines-in-rice-
	oryza-sativa-
C	I-to-
Effect of locally produced honey on serum levels of gluc	osea tranvieride.
cholesterol, HDL, VLDL, and LDL in alloxanized diabetic ra	ts and-genetic-
	performance-
Arash Alizadeh Yegani, Hamidreza Alipour Kheirkhah, Ahm Koohi, Özge Öztürk	id Qstayar, Vahid egyptian-
	T-1-1
Int. J. Biosci. 6(3), 137-145. (Full Text) (http://www.innsp /uploads/2015/02/IJB-V6No3-p137-145.pdf)	(455)
The Annual Control of the Control o	• Effect of
doi: http://dx.doi.org/10.12692/ijb/6.3.137-145 (http://d:	
/ijb/6.3.137-145)	methods of
	zinc
	application on
Correlation between yield and other treats in sugar beet under application of different biofertilizers and irrigation	
and of approach of an area of brond and are are sugar	/ijb/effect-of-
Amin Farnia, Gholamreza Hashemi	different-
Int. J. Biosci. 6(3), 146-152. (Full Text) (http://www.innsp	methods-of- ub.net/wp-content zinc-
/uploads/2015/02/IJB-V6No3-p146-152.pdf)	application-
doi: http://dx.doi.org/10.12692/ijb/6.3.146-152 (http://d:	.doiourg/4101.1206192
/ijb/6.3.146-152)	quality-of-
4	flue-cured-
	virginia-
Identification and isolation of a homolog of AtSEF gene f	om apple (Malus (424)
domestica)	The effect of
Naeimeh Maghsoudi, Nasser Mahna, NematSokhandan Bashir	BahmensRegenten
Kohnehrooz	duration of
Int. J. Biosci. 6(3), 153-161. (Full Text) (http://www.innsp	drought on ub.net/wp-content
Int. J. Biosci. 6(3), 153-161. (ruii Text) (http://www.hinsp	wind
/uploads/2015/02/IJB-V6No3-p153-161.pdf)	wind (http://www.innspub.ne
/uploads/2015/02/IJB-V6No3-p153-161.pdf)	(http://www.innspub.ne
/uploads/2015/02/IJB-V6No3-p153-161.pdf) doi: http://dx.doi.org/10.12692/ijb/6.3.153-161 (http://dx	(http://www.innspub.ne
/uploads/2015/02/IJB-V6No3-p153-161.pdf) doi: http://dx.doi.org/10.12692/ijb/6.3.153-161 (http://dx	(http://www.innspub.ne : .doi/.ib rg s/itind-2692
/uploads/2015/02/IJB-V6No3-p153-161.pdf) doi: http://dx.doi.org/10.12692/ijb/6.3.153-161 (http://dx	(http://www.innspub.ne : .doi/រ៉ូវ ាខ្ ទវវេសឧ-2692 effect-of-
/uploads/2015/02/IJB-V6No3-p153-161.pdf) doi: http://dx.doi.org/10.12692/ijb/6.3.153-161 (http://dx/jb/6.3.153-161) Effect of phosphate fertilizer on quality and quantity of	(http://www.innspub.ne .doi/ibrgs/doid-2692 effect-of- intensity-and- duration-of- drought-on- berseem clover
/uploads/2015/02/IJB-V6No3-p153-161.pdf) doi: http://dx.doi.org/10.12692/ijb/6.3.153-161 (http://dx/jjb/6.3.153-161)	(http://www.innspub.ne .do/ 沙克科 他是2692 effect-of- intensity-and- duration-of-
/uploads/2015/02/IJB-V6No3-p153-161.pdf) doi: http://dx.doi.org/10.12692/ijb/6.3.153-161 (http://dx/jb/6.3.153-161) Effect of phosphate fertilizer on quality and quantity of forage under pseudomonas strains inoculations	(http://www.innspub.ne .doi/ings/illose-2692 effect-of- intensity-and- duration-of- drought-on- berseem clover wind- situation-and-
/uploads/2015/02/IJB-V6No3-p153-161.pdf) doi: http://dx.doi.org/10.12692/ijb/6.3.153-161 (http://dx/ijb/6.3.153-161) Effect of phosphate fertilizer on quality and quantity of forage under pseudomonas strains inoculations Mohammad Hossein Ansari, Shahrokh Ghadimi	(http://www.innspub.ne .doi/ibgs/ittle-2692 effect-of- intensity-and- duration-of- drought-on- berseem clover wind- situation-and- wind-erosion- case-study-
/uploads/2015/02/IJB-V6No3-p153-161.pdf) doi: http://dx.doi.org/10.12692/ijb/6.3.153-161 (http://dx/jb/6.3.153-161) Effect of phosphate fertilizer on quality and quantity of forage under pseudomonas strains inoculations	(http://www.innspub.ne .doi/ibgs/ittle-2692 effect-of- intensity-and- duration-of- drought-on- berseem clover wind- situation-and- wind-erosion- case-study-

Correlation between yield and other treats in sugar beet ($\it Beta\ vulgaris\ L.$) under application of different biofertilizers and irrigation

Int. J. Biosci. 2015

Introduction

Duck breeding is one of the possible means of breaking out from poverty in developing countries (Pym et al., 2002). Ducks are efficient converter of small scale agricultural products besides legumes, vegetables and grain. Duck's eggs are profitable to the poor farmers and house wives, who can use it for education and health care of their children (Rahman et al., 2010).

Ducks in Langowan, Minahasa, North Sulawesi, Indonesia provides self-employment for landless and small farmers. Breeding duck in this area give benefit for the farmers. The geographical location, climate and environmental condition of wetland paddy field area are favourable for succeed a duck production. This is due to the abundant natural feed resources and water logged areas. The natural feed resources such as aquatic weeds, various types of insects, tadpoles, earthworms, green forages and different fallen grains are good sources of nutrients for ducks (Farrell et al, 1985; Rahman et al., 2010).

The farmers in Lanwongan plant three variety of Oryza sativa L. (IR64), Serayu and Super Win with or without grow enhancer as organic fertilizer. There is a great potential of improving the productivity of ducks egg in wetland paddy field through supplementary feeding. As duck egg is potential commodity in Indonesia, it contains relatively less water and higher percentage of proteins and fats in the yolk, albumen and total contents of egg compared to chicken eggs (USDA, 2002).

Duck farming have been familiar among the rice-field farmer, mostly raised in small-scale traditional technology as an additional activity between their rice crop routines. The farmers used grow enhancer as organic fertilizer in the farming area. The result shows significant different of paddy production when using grow enhancer. Therefore, we conducted this research to assess the profile of duck farmers and the effect of grow enhancer on duck's egg production. Increasing duck egg production is still challenging today. Manipulation of feeding management is one of

the easiest and the cheapest strategy for increasing the duck's egg production. To know the significant effect of duck's egg production using grow enhancer, evaluation on treated and untreated duck is conducted in this research. Increasing duck egg production in Lanwongan was expected to contribute to their household income (Susilowati, 2014).

Material and methods

Experimental design and treatment

The experiment was conducted on January to March 2013 in the of wetland paddy Field of 33 respondents in Sub-district of Langowan, Minahasa Regency, North Sulawesi, Indonesia. Before the respondent's ducks were experimented with grow enhancer and compared to the untreated duck, the profile of duck farmers were surveyed to assess the distinction character of duck farmer in Lanwongan.

Ducks Feeding and Care

Feeds were supplied from wetland area. Proper care and management practices were referred to the traditional ducks care. The ducks farming manage by the researcher and farmers throughout the experimental period.

Data Collection and Data Analysis of Egg Production The freshly laid eggs of ducks were counted as informed by the farmers. Statistical analyses were performed using the software package of SPSS for Windows (SPSS Inc., Chicago, IL).

Result and discussion

Correlation between farming area and amount of duck

Before knowing the effect of grow enhancer in duck egg production, evaluation of duck farmers profile is important to assess the correlation on amount of duck that they had with the farming area for growing duck. Environment condition is important for duck's growing and increasing the duck egg production. The profile of duck farmers is summarized and presented in Table 1. It was found that the majority of the respondents (54.54%) are old farmer group (>50 years) then (42.42%) following by middle aged group

(35-50 years) and 3.03% were from young farmers (<35 years). They used paddy field area for farming the duck. Every respondent had different farming area for feeding their duck. There are correlation

between the width of farming area and amount of the duck, as R= 0.77 (Figure 3). It means that the farmer that had wider area tend to have higher duck volume.

Table 1. Profile of duck farmer in Langowan, Minahasa.

Age (years)	Respondent (n)	Respondent (%) average area width (m²)		Average duck volume (individu)		
<35	1	3.03	400.00	100.00		
36-50	14	42.42	4753.57	233.21		
>50	18	54-54	6797.22	207.77		

Effect of grow enhancer in duck egg production Increasing egg production in duck is challenges for the duck farmer. The easiest and cheapest way for increasing egg production is managed the feeding, especially, the nutrition of feed. In this experiment, grow enhancer was used for triggering the egg production. There are two groups of farmer in this study. First, the farmers that do not use D.I TM grow enhancer in duck feed. Secondly, the farmers that combine the feed with the D.I TM grow enhancer (Supplementary 1). To know the significance effect from grow enhancer, we used statistical analysis of independent-sample T test (Supplementary 2). The result showed that egg production from treated duck was higher than untreated duck (Figure 2). Egg production from non D.I TM grow enhancer feed was 31.91%, a half from D.I TM grow enhancer modified

Based on statistical analysis, the effect of grow enhancer on the egg production is significant. It indicates by p value (0.000). P-value <0.05 means, grow enhancer that consumed by duck can increase the egg production significantly. Salam and Bulbul (1983) and Huque and Ukil (1994) reported egg production which ranged from 60-91 eggs/duck/year is affected by the quality of feeding; accordance with the current study. Several factors that most affect the egg production are: quality of feed, quantity of feed, water intake, lighting of cages, stress, the number of males ducks (Metzer Farms, 2014). Based on this significant result, the farmers in Lanwongan can change the management feed using grow enhancer. It will increase the economical condition in Lanwongan.

fed duck for 68.08%. Previous studies have also shown that soy isoflavone supplementation improved egg production and egg quality (Saitoh *et al.*, 2001; Zhao *et al.*, 2005). In this experiment, increased duck egg production could be due to the nutritional addition of D.I TM grow enhancer which affect to the duck egg production.

Conclusion

The majority of duck farmers is old aged group and there is correlation between farming area and amount of duck. The duck egg production can increased 2 times when treating with grow enhancer from 38% to 68%. There are great potentials for an improvement of duck egg production in Langowan Minahasa by means of nutritional and management engineering.

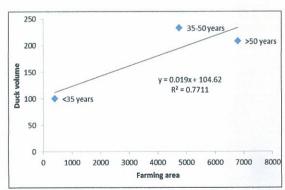


Fig. 1. Correlation between area width and duck volume.

Int. J. Biosci. 2015

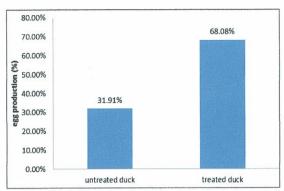


Fig. 2. The egg production of untreated and treated duck with D.I grow enhancer.

References

Farrell DJ, Stapleton P. 1985. Duck production science and world practice. Armidale, Australia: University of New England 342-350.

Huque QME, Ukil MA. 1994. Existing poultry production and utilization system in the traditional villages in Bangladesh. Bangladesh Journal of Training and Development **7(1)**, 35-43.

Rahman, M, Khan, M, Chowdhury S, Akbar M. 2012. Effect of feed supplementation on chemical composition of duck eggs in coastal areas of Bangladesh. Bangladesh Journal of Animal Science, 39(1-2), 163-169.

http://dx.doi.org/10.3329/bjas.v39i1-2.9690

Metzer Farms. 2014. Old Stage Road Gonzales, CA 93926.

http://www.metzerfarms.com/ContactMetzer.cfm.

Pym RAE, Lanada EB, Morbos EY. 2002. Case studies of families' poultry development 2nd Ed. Electr. INFPD-FAO.

Saitoh S, Sato T, Harada H, Matsuda T. 2004. Biotransformation of soy isoflavone-glycosides in laying hens: intestinal absorption and preferential accumulation into egg yolk of equol, a more estrogenic metabolite of daidzein. Biochimica et Biophysica Acta 1674(2), 122–30.

http://dx.doi.org/10.1016/j.bbagen.2004.06.006

Salam MA, Bulbul SM. 1983. A comparative study of performance of Khaki Campbell and Indian Runner ducks under Bangladesh Agricultural University farm condition. Bangladesh Journal of Animal Science 12 (1-2), 39-48.

Susilowati T. 2014. Duck farming alternatives in Teras Village, Serang Regency. Assessment Institute for Agricultural Technology Banten.

United States Department of Agriculture (USDA). 2002. Nutrient database for standard reference.

http://ndb.nal.usda.gov/

Zhao RQ, Zhou YC, Ni YD, Lu LZ, Tao ZR, Chen WH, Chen J. 2005. Effect of daidzein on egg-laying performance in Shaoxing duck breeders during different stages of the egg production cycle. British Poultry Science 46(2), 175–81.

http://dx.doi.org/10.1080/00071660500064808

Int. J. Biosci. 2015

Appendix

Supplementary 1. Statistic of untreated and treated duck with grow enhancer.

		Group Statistics		
Experiment	N	Mean	Std. Deviation	Std. Error Mean
Untreated duck	33	7102.91	4489.675	781.552
Treated duck	33	15152.00	9525.802	1658.229

Supplementary 2. Independent-sample T test of treatment.

		's Test for of Variance	s		t	test for Equa			
			*						ence Interval ifference
	F	Sig.	t	df	Sig. (2- tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Equal variances assumed	5.897	.018	-4.391	64	.000	-8049.091	1833.180	-11711.288	-4386.894
Equal variances not assumed			-4.391	45.548	.000	-8049.091	1833.180	-11740.078	-4358.104