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Dean of Faculty of Animal Science Universities Bravejava Prot Dr. So. Age, Ir. Suyadi, MS. IPU., ASEANTEng. NIP. 19620403 198701 1 001 Date: Approved by: Supervising Lecturer Universitas Brawijaya



Dr. Ir. Osfar Sjofjan, M.Sc., IPU., ASEAN Eng. NIP. 19600422 198811 1 001 Date: Y Janvary 2014

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Repository Universitas Brawijaya Repositor of OP at the level of 4.5% it was able to reduce the viscosity of Repositoryintestinal digesta compared to control feed. Excreta ammonia Repository content increases with increasing use of OP in feeds Brawijaya Repository Universitas Brawlaya Repository Universitas Brawlaya Repositor feed up to a level of 4.5% was able to increase the activity of Repositoryenzymes of amylase and protease, but did not decrease the pH Repositor and viscosity of small intestine as well as excreta ammonia Repositorylevels. Based Bon this research, sit is recommended to use Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava

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Repositoryhighestroosts in the livestock pusiness Uneed to autilize vlocal Repositorymaterials and wastes, both by-products of processing products, Repository agricultural waste, livestock, and industrial waste. Brawijaya The addition of feed additives is done to improve the Repository Univer Repositor appearance of poultry production, including drugs, antibiotics, Repositoryor growth hormones. The addition of feed additives in animal Repositor feed has long been done to stimulate growth and prevent Repository disease. The provision of feed additives can also be used as a Repository substitute for antibiotics to increase the productivity and Repository efficiency of the feed used. Synthetic amino, acids used as Repository Repositor additional afeed a ingredients are repected to increase if the Repositoryefficiencytof feed iniake. Repository Universitas Brawijaya Repository Univeroiganika priotein in efeeditasy expected tao Enerti the Repository nutritional needs of broiler feed at affordable prices. Organik Repositor protein in the feed was used as a protein source feed Repositorvingredient. One indication of good feed digestion in the poultry Repositorydigestive it tractrais/jobservingpintestinal nicharacteristics/jaca Repositoryviscosity and enzyme activity, as well/as internal organ weight Repository(Nurliana et al., 2019). In this study, the effect of the use of Repository Universitas Brawlaya on pH, viscosity, and enzyme activity Repositor of the small intestine and excreta ammonia levels in broiler Repositorywill be determined vijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository₁Univerpitagenewijaya Repository Universitas Brawijaya Repository University Based on the description of the background above, the Repository Univer Repository research problem is how the effect of the use of Organik Repositoryprotein in feed on pHa viscosity, tenzyme, activity including Repositoryamylases and protease/small intestine/and levels of ammonia Repositoryexcreta in broilers? ijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Reposito Reposito

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Repositor/Yeast is one of the best microorganisms for single-cell protein Repositoryproduction because of its nutritional/quality and can coexist Repository with animal protein (Adedayo et al., 2011; Chand et al., 2014). Repository Universitas Brawlaya Repository Universitas Vitamin B Repository Repositor complex, and also has probiotic properties making it more Repositor suitable for poultry feed (Chandretial, 2014) ersitas Brawijava Repository UniverSeveral studies on single-cell protein in livestock have Repositor been carried out but obtained a different result. The difference Repository in results was caused by the use of different microorganisms. Repository In the study of Samadi et al. (2012), the use of 6% SCP in Repositor commercial feed did not show a significant different effect but Repositor with 12% SCP there was a weight loss of about 600 grams. Repositor/The use of SCP was tolerated in 6% used. In the study of Repository Chand et al., 2014 the maximum bodyweight was recorded in Repository Universita's Brawlace Repository of 10,5 grams/kg feed, Repositor and the use of SCP yeast improved broiler performance Repositorypositivetytas Brawijaya Repository Universitas Brawijaya Repository Universingle cell/iproteinRispasicheaperivsources of dietary Repositoryprotein, as it can be produced from various substrates (sugar, Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijava Repository industry The production and activity of enzymes are Repositor influenced by the intake and quality of nutrients, especially Repositoryamino acids (protein). Compared with fish meal, most SCP had Repositorysimilar lysine, methionine, and cystine content and higher proportions of tryptophan and threonine. These amino acids Repositor are some of the essential amino acids needed by livestock. In Repositor this study, the use of Organik protein with high protein content Repositoryand amino acids needed by broiler is expected to maximize Repositorychemical digestion so that the use of feed can be more Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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į.	rearing. Feed takes up 60-8	0% of the	total produ	ction cost.	Penceito
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Repository UniverDigestion of feed starts from the beak, continues in the Repositorymouth, which contains salivary glands with low concentrations Repository of enzymes. The esophagus is a flexible tube that connects the Repository Universitas Brawlava mouth with the crop, serving as a digester and temporary food Repository Repositorystoragers Towards the proventriculus, which is a glandular Repositor stomach, chemical digestion occurs. The more phytic acid and Repositorycrude effibers in a they feed R will sincrease w their size rof i the Repositoryproventriculus because it must produce HCIs and pepsin to Repository Universitas Braviaya and Phosphorus in the feed. The Repository Universitias Brawijaya Repository Universitias Brawijaya Repository ventriculus (gizzard) is chemically and it mechanically Repositor composed of two sets of strong muscles that act as teeth, Repositorycontaining materials such as grits coral, and gravel that aid in Repository grinding. The feed that enters the gizzard is ground and ground Repository with liquid (an enzyme secreted by the proventriculus). Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor digests and breaks down food into smaller pieces so that it is Repositoryeasilyerabsorbedaybyaythe Foodysit Digestion roccurs rainij the Repository duodenum, while absorption occurs in the jejunum and ileum Repository for this purpose, the duodenum receives digestive enzymes Repository Universitas Brawijaya Repository Universitas Drawijaya Banasitor from the pancreas, namely amylase, Ulipase, and protease Repositor (Rahayu, 2020). Digestion that occurs in the duodenum is the Repositor breakdown of nutrients in the form of starch, fat and protein Repositoryand secretes the enzymes trypsin, amylase, and lipase from the Repositorypancreas and bile from the liver to digest feed. Next to Repository Juniversitas Bravila and Repository of feed substances in Repository the body of the chicken. In the ileum there are many microvilli Repositorythat function to absorb digestive products. In the recumsor Repositorycommonlyas Balled ay the Reappendix, Universition Braccurs Repositorymicrobiologically by microbes that help digestion as Brawijaya Repository University Brawinface of the small intestine is uneven, but Repository has mucosal folds that increase its surface area and aid in Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava



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Mucosal folds

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Repository Universitas Brawijaya Repositorymixing ingestar The mucosa forms the intestinal willing small

Repositoryfinger-like protrusions that increase the surface and absorption Repositoryarea of the intestinal wall, providing efficient absorption of Repository Universitas Brawijaya are trench-like Repository Repository invaginations of the epithelium around the villi. Towards the Repositor base of the crypts are stem cells, which continue to divide and Repositoryprovide the source of all epithelial cells in the crypts and in the Repositoryvilli (Mohni, 2011) Cross-sectional illustration of the small Repository Universitas Brawijaya, Repository Universitas Brawijaya intestine can be seen in Figure 4 Universitas Brawijaya Repository

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iversitas Brawijaya Repository Universitas Brawijaya Repository Source: (1) Mohnl (2011); Schokker (201) Universitas Brawijaya Repository Figure 4. Small intestine cross section Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas BrpHiof SmalRIntestine y Universitas Brawijaya

Repository Universitas Bremina et al., (2013) stated that the normal Repository Universitas Brawijava digesta pH in each part of the small intestine is Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijava Reposito Reposito

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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Univerdifferent; in the duodenum pH 51-6, jejunum pH/6,5+7a Repository Universita sileum pH/7-7.5. Acidia conditions of the small Repository Universitas neavily a reduce the growth of spathogenic Repository Univer bacteria, so that it can improve the condition of the Repository Univer Repository Univerdigestive tract and nutrient digestibility which causes. Repository Univerthe feed rate in the small intestine to be better in the Repository Univerprocess rofinutrient eabsorption (Ranniawati retija), a Repository Univer2014) Briticrobial Balanceton the digestive tractars Repository Universitas Brawijava influenced by Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitation of excreta. Repository Universitas Brawijava Repository Universitas Brawijava Repository Univer2.6.2. BrViscosity of Small Intestine Digesta Brawijaya Repository Universitas Bryticosity determines the rate of digesta in the Repository Universities tract of livestock. Poultry has a relatively Repository Univer Repository Universitas Brawilaya Repository Universitas Brawilaya Repository Universitas Brawilaya Repository Univerpoultry is short. Sjofjan et al (2015) revealed that Repository Univerviscosityavisjathe resistanceo to Ullowerfrom Brasystema Repository Universities by shear. The higher the render fiber content, Repository University faster the digesta rate, the faster the digesta rate, Repository University the shorter the digestive process in the digestive tract. Repository Univer In short, the digestive process results in less time for Repository Univerenzymes to completely degrade inutrients as Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Browiastive Enzymestory Universitas Brawijaya Repository Universitas B Effendy (2014) states that enzymes are protein Repository Universitas B Repository Univermolecules, that act as biocatalysts and function to Repository Univercatalyzea metabolice reactions Uthatertakes place jain Repository Universitganism wija This Refunction y Usive influenced wijaby Repository University on Repository Such as Temperature, acidity Repository Universitas Brawieva concentration, enzyme and activator **Repository Univer** Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava

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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya RepositoryMicroorganism activity in Broiler manure decomposes waste Repositoryproducts such as unabsorbed protein, amino acids, other Non-RepositoryProtein Nitrogen (NPN) compounds to form ammonia gas Repository (NH3), hydrogen sulfide (H2S), nitrate, and nitrite (Goldstein Repository Repositor and Skadhauge, 2000); Andinni, 2021). NH3 gas can reduce Repositorythen appearance of / livestocke and it increase / their possibility of Repository disease in livestock and pollute the environment. The higher Repository the ammonia Bindicates the absorption of enutrients is not Repository Universitas Brawijaya Repositor nitrogenous waster materialse in sexcretan such tas uric acid, Repositoryunabsorbed s proteinay aminoepacids nandivother as non-protein Repositorynitrogensit (NPN) wicompounds os duey to v the taactivity ja of Repository microorganisms in feces (Manin et al., 2010; Riza et al., 2015). Repository Universitas Brawijaya Repository The smell in the cage environment is caused by the gases Repositor produced. Ammonia gas also plays a very important role in the Repositoryhealthestatus, productivity Revelsand performances of poultry Repositoryand livestock health in cages. Animonia levels with levels >25 Repository ppm can cause cilia damage and susceptible to diseases such as Repository New Castle Diseases (ND) (Riza et al, 2015). NH3 levels in Repositorythe cage should not be more than 25 ppm and the threshold Repositor level for humans is 25 ppm for 8-10 hours. Tolerance limits for Repositoryammonia levels in bioiler are presented in Table 235 Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava

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s N	$P_{enos} P_{enos} 0178 \pm 0.50 = 3.33 \pm 0.82$	$549.97+25.02^{BC}$ $5.21+0.02^{C}$ 0.118	+0.13 on $+0.13$
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	P1 $6,87\pm0,37$ $3,17\pm0,75$	$502,19\pm11,86^{\text{C}}$ $4,99\pm0,54^{\text{CD}}$ $0,233$	± 0.11
≩⋧	Popository Universitas Brawijaya	Repository Universitas Brawijaya	Poposito
5 📫	P2 $6,90 \pm 0,49$ $3,17 \pm 0,41$	$670,825\pm47,64^{\text{A}}$ $3,95\pm0,40^{\text{D}}$ $0,238$	$\pm 0.24^{\circ05110}$
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	$P_{4} = 668 \pm 0.33 = 3.50 \pm 0.55$	$547.81+50.08^{\circ}$ 7.89 + 0.08 ^A 0.40 -	
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s <mark>4</mark>	the small intestine digest	a of broiler can be seen in Table 6	Reposito
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Repository Universitas Brawijaya Repositor/The average value of the pH test results of the small intestine Repository digesta from the lowest to the highest is treatment P4 (6,68)= Repository0,33), P0 (6,78 ± 0,5), P1 (6,87 ± 0,37), P2 (6,9 ± 0,49), P3 Repository $(6,92 \pm 0,29)$. Data and results of analysis of various degrees of Repository Repositor pH small intestine digesta of broiler with the use of Organik Repositor protein can be seen in Appendix 2. Intestinal digesta used in Repositor this study was taken from the ileum of the small intestine of Repository Universitas Brawijaya Repository Universitas Brawijaya Repository University Bravia the analysis of variance showed that the Repository Univer Repository use of Organik protein in feed had no significant different Repositor effect (P>0,05) on pH of small intestine digesta of broiler. The Repositorylowest value was in treatment P4 (6.68 ± 0.33) with the use of Repositor Organik protein as much as 6%, and the highest value at P3 Repository (6.92 92 \pm 0.29) with the use of Organik protein as much as 4.5%. The pH value of the small intestine of broiler according Repositor to Gauthier (2007) and NRC (2012) can be seen in Table 7. ava Repository Universitas Brawijaya Repository Universitas Brawijaya RepositoryTable 75 pH of small intestine digestal broiler according to Repository Gauthier and NRC VIJaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository USwall Intestine Repository Universitas Brawijaya Repository Universitas Brawijaya Repository University University 5,0 pc6,0 ory Unive5,70 s 6,00 vijava Repository Universitianan Repository University Repository Repository University Repository Reposit 6,5 po7,0 ory Unive5;80 p 5,90 vijava Repository Univernitan Brawijaya 70007 Sory University & 40 vijava Repository Source: a. Gauthier (2007) Repository Universitas Brawijaya Repository Universitas Brawilaya b. NRC (2012) Repository Universitas Brawijaya Repository UniverThe acidity of the digestive tract parts has an influence Repositor on the life of digestive microbes which are closely related to Repositorythen products B of widigestive enzymes U and rehzymes wfrom Repository microorganism products from feed (Sjofjans et al, 2020). Repository Universitas Bracia will Repository Oniversitas Bracia will be released by digestive juices Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava

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Repositor Low viscosity indicates the nature of amino acids (the result of Repositoryprotein hydrolysis) which are soluble in water (Fitasari, 2011)? Repository The negative effect if the viscosity of the contents of the small Reposit intestine increases is to reduce the efficiency of digestion by Repository Repositor slowing the rate of diffusion of endogenous enzymes to react Repositor with substrates and nutrients and compressing absorption in the Repositoryvilli in the small intestine wall (Natsir et al., 2016). However, RepositoryRosningsih and Sundari (2015) stated that the increased digesta Repository University resulted in a slower digesta rate and allowed an Repository. Repository only effective nutrient Repositor absorption so that the availability of nutrients for the synthesis Repositoryof/body tissueSincreased. Repository Universitas Brawijaya Repository Universiofian etvial, (2015) revealed that viscosity is the Repository resistance to flow from a system caused by shear. The greater Repository Universitas Brawijaya Repository the resistance or shear, the more viscous the system. According Repositoryto Kusumaningtyaswati (2018), viscosity is influenced by Repositorytemperatures pressure/aweight, osolution/moleculesBrsolution Repository concentration B and dissolved materials present. Viscosity Repository determines the rate of digestion of the digestive tract. Poultry Repository universitas Brawley a second provide the digestive tract of has a relatively faster digesta rate because the digestive tract of Repositor poultry is short. Increased ileal digesta viscosity can affect Repositorynutrient absorption and also affect intestinal motility Widodo Repository(2010) also emphasized that an increase in digesta viscosity Repository will have an impact on the difficulty of the digesta to be Repository digested, especially because of the difficulties experienced by Repository Repositor enzymes to penetrate the surface or matrix of the digesta. Repository UniverBased on the research of Olfati et al. (2021) the use of Repositor/gelatin increases the viscosity of the ileal digesta which causes Repositorya decrease in the performance and digestibility of nutrients. Repository Increased viscosity indicates the chyme in the intestine is Repository Repository denser, so absorption is not optimal. Research by Cahyaningsih Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Reposito Reposito

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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repositor have occurred due to the presence of inhibitory factors in the RepositoryOphithatsitaffected//enzymeRactivity/)Sugiantoningsih a(2012) Repositorystates that the work of enzyme activities can be influenced by Reposit temperature, pH, concentration of enzymes, substrates, Repository Repositor cofactors and enzyme inhibitors. At the optimum pH, the Repositor enzyme can decompose the substrate maximally. Amylase is Repositoryan enzyme that digests polysaccharides and starch which is a Repository complex food ingredient which is then converted into simpler Repository food substances, namely glucose which is a source of energy Repository (Lehninger, 1994; Nurhayatin, 2016). Vulversitas Brawijaya Repository UniverCholidah (2011) revealed that single cell proteins are Repositoryhigh in protein content and have high nucleic acids as wella Repositor Nucleic acids are macromolecules that have low digestibility Repository when compared to pure protein (Samadi et al, 2012). It is Repository Universitas Brawijava Repository known that nucleic acids can increase the activity of xanthine Repositor oxidase which plays a role in the formation of free radicals. Repositor/The increase in free radicals causes the chicken's need for Se Repositoryand Vitamin E to increase, so that the chicken is deficient in RepositorySe. Deficiency of Se and Vitamin E is associated with the use Repository of SCP in animal feed, because some SCP have low Se Repository Content sitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository4.4 iver Thes Effect of Treatment on the Protease Enzyme Repository Universitation Repository Universitas Brawijaya Repository University The complete data on the effect of treatment on the Repository Univer Repositor amylase enzyme activity in the small intestine of broiler can be Repositor/seen in Table 6. There was a decrease in the value of the Repositor amylase enzyme activity at P1 and P2 when compared to the Repository control treatment PO. The average value of the protease Repository enzyme activity test results (µmol/g) in the small intestine Repository Repositor from the lowest to the highest, that is P4 (7,89 \pm 0,08), P3 Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava

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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor absorption of Inutrients, especially proteins and amino acids. RepositoryProtein that is not absorbed pins the digestive tract will be Repository converted into unic acid which is then excreted with feces Repository Universitas Brawijaya BRAWIJ/ Repository Universitas Brawijaya Repository Hutauruk, 2017). Repository Universitas Brawijaya Repository Univer Excreta ammonia is an alkaline gas produced by Repositor/livestock which is colorless and toxic, and has a high irritating Repositor/power (Soma, 2016). The source of air pollution in chicken Repository farms comes from chicken manure related to the nitrogen and Repository sulfide elements contained in the manure, which at the time of Repository Repository accumulation of manure or storage there is a decomposition Repositor/process by microorganisms to form/ ammonia, nitrate, and Repositor nitrite gases and sulfide gases. These gases are what cause the Repositorysmell. The odor comes from the high content of ammonia gas Repository and hydrogen sulfide (H2S) gas, dimethyl sulfide, carbon Repository disulfide, and mercaptans. Hydrogen sulfide (H2S) is a gas that Repository Repositor can produce an unpleasant odor (Nugrahani et al., 2016). wijava BRAWIJ/ Repository UniverAmmonia is toxic to broiler and humanis if it exceeds Repositorythenithreshold Blevelsa)that Ran Obe tolerated by broifer jand Repositoryhumans. Ammonia content is also influenced by environmental Repository Universitas Brawijava Repository Universitas prawijava Banasiton factors such as temperature and humidity. In addition, the Repositor environment, NH3 gas can reduce livestock, increase food for Repositor disease, and reduce work efficiency of human (Charles and Repositor/Haryono, 1991, Riza et al., 2015). Ammonia levels with levels Repository>25 ppm can cause ciliary damage to diseases such as News Repository Castle Diseases (ND) causing a decrease in health status, Repository Repositor performance level and productivity of poultry (Heij and Repositor Schneider, 1991; Riza at al 72015) tory Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya **BRAWIL** Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava

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	Repository	Urføersitas Bføvegay	a Repository Universitas Brawijaya	Reposito
-	Repository	Ut29ersitas Bra48ijay	a Re0,58itory Universi0,34Brawijaya	Reposito
X	Repository	Ungersitas Brateijay	a Rep <u>38</u> itory Universit <u>9</u> 34Brawijaya	Reposito
A	Repository	Universitas Brawijay	a Repository Universitas Brawijaya	Reposito
	Repository	Universitas Brawijay	a Repository Universitas Brawijaya	Reposito
S S	Repository	Universitas Brawijay	a Repository Universitas Brawijaya	Reposito
≧ 🍃	Repository	Unversitas Brendjay	a Repository Universitas Brawijaya	Reposito
5 🚾	Repository	U134ersitas Br45,5jay	a Regigizatory Universities Brawijaya	Reposito
	Repository	135 ^{ersitas} Brawjay	a Repository Universitas Brawijaya	Reposito
CO .	Repository	136 Diawijay	$P_{\rm e}$ Repository Universitas Brawijaya	Reposito
	Repository	Uh37oroitoo P50.75ou	a Repository Universitas Brawijaya	Reposito
	Repusitory	Universitas Drawijay	a Repository Universita@Brawijaya	Poposito
CID	Repusitory	Universitas Dogrādy	a Repository Universitas Brawijaya	Poposito
UB.A	Repository	Universitas Browijay	a Regissitory Universitae Brawijaya	Papasito
TORY	Repository	140 50,75	a Republicity Offiversitas Brawijaya	Repusito
EPOSI	Repository	LI141 ersitas R44,75av	a Repository Universital Brawijaya	Renosite
E .	Repository	Uh49ersitas B44v75av	a Re269tony Universites Brawijaya	Renosito
	Repository	Universitas Brawiłav	a Repository University Brawijaya	Renosito
A	Repository	Universitas Brawijav	a Repository Universitas Brawijaya	Renosito
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AS 📕	Repository	Ul45ersitas Brawijay	a Reduktory Universitas ² ,92Brawijava	Reposito
S S S	Repository	Universitas Brawijay	a Repository Universitas Brawijava	Reposito
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	Repository	Universitas Brawijav	a Repository Universitas Brawijava	Reposito
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ACII	Repository	Universitas Brawijaya	Repository Universitas Brawija	ya Reposito
KY.UB	Repository	Universitas Brawijaya	Repository Universitas Brawija	ya Reposito
SITO	Repository	Universitas Brawijaya	Repository Universitas Brawija	ya Reposito
REPO	Repository	Universitas Brawijaya	Repository Universitas Brawija	ya Reposito
	Repository	Universitas Brawijaya	Repository Universitas Brawija	ya Reposito
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	Repository	Universitas Brawijaya	Repository Universitas Brawijas	ya Reposito
5	Repository	Universitas Brawijaya	Repository Universitas Brawija	ya Reposito
22	Repository	UH9ersitas Brawijaya	Repository Universitas4Brawija	ya Reposito
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AC.ID	Repository	Urssersitas Branzijaya	Reloct2tory Universilo; #8Brawija	ya Reposito
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SITOF	Repository	157	Repository Universitas Brawija	ya Reposito
REPO	Repository	Universitas Brawijaya	Repository Universitas Brawija	ya Reposito
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4	Repository	Universites Pravilava	Repissitory Universites Prowing	ya Reposito
S	Repusitory	0160ersitas D48,25aya	Re0,83itory Universi0,69brawija	ya Reposito
	Repository	161 Billas D 50,75	Resultory Universita, 8 Pawija	ya Repusito
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REPO	Repository	Uh7versitas Bfawfjaya	Rep83itory Universila6Brawija	ya Reposito
	Repository	Uh72ersitas B54,25aya	Re3,83itory Universil4,66 rawija	ya Reposito
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	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
ACII	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
KY.UB	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
SITO	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
REPO	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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SS 📚	Repository	Uh79ersitas Bra48ijaya	Re958itory Universi934Brawijaya	Reposito
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CID	Repository	U <u>rsi</u> sersitas Br 49,is jaya	Re2,08itory Universita32Brawijaya	Reposito
10B.4	Repository	Upiyersitas Brawijaya	Repository Universitas ₂ Brawijaya	Reposito
ITOR	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
EPOS	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
	Repository	Uhwersitas Br49. Ajaya	Repository Universitas/Brawijaya	Reposito
-	Repository	U189ersitas Br46,5jaya	Rei0;92tory Universi0;85Brawijaya	Reposito
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A	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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CB	Repository	Universitas D49925aya	Repailory Universitas Brawijaya	Poposito
UB.A	Penesitory	Upivorsitas Brawijava	Penesitory University Brawijaya	Papasito
TORY	Repository	200 49,25	Repository Universitas Drawijaya	Repusito
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	Repository	Lowersitas Bravijava	Repository University Brawijaya	Renosito
A	Repository	Universitas Brawijava	Repository Universitas Brawijaya	Renosito
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ACII	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
KY.UB	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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REPO	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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AC.ID	Repository	U215ersitas Bra49ijaya	Rep,58itory Universita,49Brawijaya	Reposito
8Y.UB	Repository	216 Brawijaya	Rep <u>s</u> itory Universitas9Brawijaya	Reposito
SITOR	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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	Repository	221 50,75	Resident Universitas Brawijaya	Renosito
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	Repository	U227ersitas Bra44ijava	Re3d2tory Universita7®rawijaya	Reposito
a	Repository	U228ersitas Brauijaya	Rei3;42itory Universita;76 rawijaya	Reposito
ACII	Repository	Upiyersitas Brawijaya	Repository UniversitasoBrawijaya	Reposito
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REPO	Repository	U 4 ii√ersitas Bfawijaya	Repository Universitas Brawijaya	Reposito
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×	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
ACII	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
KY.UB	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
SITO	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
REPO	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
1	Repository	U236ersitas B45y75aya	Rei1,67 tory Universi2,79 Brawijaya	Reposito
×	Repository	Universitas Brawijaya	Repository UniversitasoBrawijaya	Reposito
P	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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RS S	Repository	U ²³⁹ ersitas B ⁴⁵ w ⁵ aya	Repository Universitas9Brawijaya	Reposito
≥≳	Repository	U240ersitas B45,75aya	Rep.67tory Universi2379Brawijaya	Reposito
S	Repository	Universitas Basygaya	Repeatory Universites Brawijaya	Reposito
(a)	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
U	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
	Repository	Ufflversitas Bfawijaya	Repository Universitas Brawijaya	Reposito
	Repository	U244ersitas B48,25aya	Re 0.83 itory Universi 0.69 Brawijaya	Reposito
CID	Repository	U245ersitas B46,75aya	Re _{10,69} itory Universit <u>0</u> ,45Brawijaya	Reposito
10B.4	Repository	Upiversitas Bravijaya	Re <u>pos</u> itory Universitas ₅ Brawijaya	Reposito
ITOR	Repository	Universitas Brawijaya	Repósitory Universitás Brawijaya	Reposito
EPOS	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
	Repository	U#flersitas Bflewpaya	Repository Universites Brawijaya	Reposito
-	Repository	U249ersitas B43,75aya	Rep3;67tory Universit3;48rawijaya	Reposito
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A	Repository	251 - 43,75	Repository Universitas Brawijaya	Reposito
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5 🚾	Repository	U254ersitas Braudiava	Rei0;42 tory Universin; 48 Brawijaya	Reposito
	Repository	Universitas Brayijaya	Rej042 tory Université Brawijaya	Reposito
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	Repository	1257 projtop P4925 pro	Repository Universitas Brawijaya	Poposito
	Repository	Los Brandias	Repository Universites Brawijaya	Doposito
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TORY	Repository	260 49,25	Ref. 83 tory Universita 35 Brawijaya	Renosito
EPOS	Repository	1261ersitas Br48,5 java	Re ^{1,08} itory Universit ^{1,16} Brawijaya	Renosito
	Repository	Li262 ersitas Br486 java	Ret 08itory Universitet6Brawijaya	Renosito
	Repository	Universitas Brawijava	Repository Universites Brawijaya	Reposito
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ACII	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
KUB	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
1011	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
REPO	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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1	Repository	U266ersitas B48,75aya	Rep3itory Universite77Brawijaya	Reposito
8	Repository	Universitas Bravilaya	Repeatory Universita97Brawijaya	Reposito
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S	Repository	Uziyersitas Brauvijaya	Regozitory Universitas Brawijaya	Reposito
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	Repository	U274ersitas Br <i>a</i> 45/ijaya	Rep2:42tory Universi5386Brawijaya	Reposito
CID	Repository	U 2ri7 sersitas Br a t <i>5</i> rijaya	Rep <u>a</u> tory Universit a86 Brawijaya	Reposito
KUB.7	Repository	Universitas Brayijaya	Repository Universitas Brawijaya	Reposito
TOR	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
EPOS	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
	Repository	Utiliversitas Brawijaya	Repository Universitas Brawijaya	Reposito
-	Repository	U279ersitas B48,25aya	Rep,83itory Universi0,69Brawijaya	Reposito
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82 📚	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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5 🚾	Repository	Upiversitas D44,75aya	Rei2(69)(01) Universitas Prowijava	Poposito
	Pepositony	285 46,75 46	Pository University Prawijaya	Poposito
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	Repository	1287 oreitae B46/75 ava	Repository Universitas Brawijaya	Repusito
	Repository	Lhooreitee Brandsova	Repository Universites Brawijaya	Reposito
9	Repository	Universitas Brawijava	Repository Universitae Brawijaya	Renosito
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ITORY	Repository	290 ersitas B49,25	Re1,83 tory Universitas Brawijaya	Reposito
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A	Repository	Universitas Brawijava	Repository Universitas Brawijava	Reposito
A	Repository	Universitas Brawijaya	Repository Universitas Brawijava	Reposito
AS 📃	Repository	U295ersitas Brawijava	Re ^{2,58} itory Universita ⁶⁵ Brawijava	Reposito
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ACII	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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SITO	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
REPO	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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(a)	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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	Repository	U304ersitas B49,75aya	Rep33itory Universita43Brawijaya	Reposito
CID	Repository	U 305 ersitas Br 47, 5jaya	Re 0,08 itory Universi 0,01 Brawijaya	Reposito
10B.4	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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EPOS	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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-	Repository	U309ersitas B47,25aya	Reiocisitory Universito;03Brawijaya	Reposito
1	Repository	U310ersitas B47,25aya	Renogitory Universite 33 Brawijaya	Reposito
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	Repository	315 Brawiaya	Repository Universitas Brawijaya	Reposito
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	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
	Repository	Universitas Drawijaya	Repository Universite Prawijava	Poposito
CB	Repository	Usiloersitas Drawijaya	Reju;42101 y Universitas Brawijaya	Poposito
UB.A	Penesitory	Upiversitas Brawijava	Rei0,42 tory Universite Brawijaya	Papasita
TORY	Repository	1320 47	R-0.42 tory Universite Brawijaya	Repusito
EPOSI	Repository	1 321 orsitas R46,75 ava	Re-0.67 tory Universi 0.45 Brawijava	Renosito
E	Repository	Lisopersitas B46v75ava	Reorgitory Universites Brawijaya	Renosito
	Repository	Laiversitas Brawijava	Repository Universitas-Brawijaya	Renosito
A	Repository	Universitas Brawijava	Repository Universitas Brawijaya	Renosito
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SITOF	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
REPO	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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ACII	Repository	Universitas Brawijaya	Repository Universitas Brawijaya	Reposito
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9	Repository	U468ersitas B41,25aya	Reformatory Universite 8,08 rawijaya	Reposito
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	Repusitory	Vith =	Brawijaya	Popository	Universitas	Browijaya	Poposit
s A	Repository	Universitas i	for each trea	itment colum	0 niversitas	Brawijaya	Papasit
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ERS	Repository	Universitated	Baawijaya	Repository	Universitas	Brawijaya	Renositi
≩₽	Repository	Universitas I	Rrawijava	Repository	Universitas	Brawijaya	Renosit
5 📫	Repository	officientof	Variation (C	Repository	x 100%	Brawijaya	Renosit
	Repository	I Iniversitas I	Brawijava	Repository	Universitas	Brawijaya	Renosit
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<u></u>	Repository	Universitas I	Brawijava	Repository	Universitas	Brawijava	Reposit
ACID	Repository	Universitas I	Brawijava	Repository	Universitas	Brawijava	Reposito
Y.UB./	Repository	Universitas I	Brawijava	Repository	Universitas	Brawijava	Reposite
SITOR	Repository	Conclusion: T	The broiler u	sed in this s	tudy can be	said to be	Reposito
REPOS	Repositoryu	niform becau	se it has a co	efficient of N	variation less	than 10%.	Reposite
	Repository	Universitas I	Brawijaya	Repository	Universitas	Brawijaya	Reposito
5	Repository	Universitas I	Brawijaya	Repository	Universitas	Brawijaya	Reposito
2	Repository	Universitas I	Brawijaya	Repository	Universitas	Brawijaya	Reposito
A	Repository	Universitas I	Brawijaya	Repository	Universitas	Brawijaya	Reposito
E B	Repository	Universitas I	Brawijaya	Repository	Universitas	Brawijaya	Reposito
53	Repository	Universitas I	Brawijaya	Repository	Universitas	Brawijaya	Reposito
	Repository	Universitas I	Brawijaya	Repository	Universitas	Brawijaya	Reposito
z 🖌	Repository	Universitas I	Brawijaya	Rep3sitory	Universitas	Brawijaya	Reposite
	Repository	Universitas I	Brawijaya	Repository	Universitas	Brawijaya	Reposite
	Repository	Universitas I	Brawijaya	Repository	Universitas	Brawijaya	Reposito
	Repository	Universitas I	Brawijava	Repository	Universitas	Brawijava	Reposite

	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
ACII	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
W.UB	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
SITOF	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
REPO	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
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8	Repository	Appendix 2.	Analysis the	EffectionT	reatmention	BH of the	Reposito
2	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
¥ 🚽	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
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≧≱	Repository	Treatment as	BrawijayRepl	icationsitory	Universitas	Brawijaya	Reposito
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	Repository	Unpersitas	5,9 6,3 7,4	R6,6 SI7,3	6,2 ^{ver} 40,7 ^s	$^{B}6,78\pm0,5$	Reposito
\bigcirc	Repository	Universitas	Brawijaya	Repository	Universitas	-6.87 ± 0.37	Reposito
	Repository	Universitas	Brawijaya"	Repository		$Brawijaya^{2}$	Reposito
	Repository	Universitas	Brawijaya,	Repository	Universites	B0,90 ± 0,49	Reposito
AC.ID	Repository	UnRersitase	5,6 a v6,6 ya/,1	Repositozy	6,8ver41,5s	B6,92]±0,29	Reposito
Y.UB.	Repository	Unpersitase	5,8°°6,5'Y27	R6,9816,1V	6,8ver40,1s	$6,68 \pm 0,33$	Reposito
SITOF	Repository	Total	Brawijaya	Repository	University 204,9	Brawijaya	Reposito
REPO	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
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1	Repository	Universitas	Brawijayer /	Repository	Universitas	Brawijaya	Reposito
	Repository	Ungersitas	Diawijaya,	ΔFYip)'/ (t	xr)versitas	Drawijaya	Reposito
N N	Repository	Universitas	$=(204,9)^2$	/(5 x 6)	Universitas	Drawijaya	Reposito
₹5	Repository	Universitas	= 4198,01	x 30	Universites	Drawijaya	Doposito
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≩⋧	Popository	Universitas	Browijava	Popository	Universitas	Brawijaya	Poposito
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C	Repository	SS Total	Brawijay	$\Sigma 1 (m Yij)^2$ - (Finivareitae	Brawijaya	Renneito
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	Repository	1399.467itas	Brawijaya	Repository	Universitas	Brawijaya	Renosito
CB	Repository	Universitas	Brewijaya	R1300-167	Universitas	Brawijaya	Renosito
108.4	Repository	Universitas	Brawijawa	Repository	Universitas	Brawijaya	Reposito
ITOR	Repository	Universitas	Brawijava	Repository	Universitas	Brawijaya	Reposito
EPOS	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
	Repository	c. Sum of S	quares Treatn	nent (SST)	Universitas	Brawijava	Reposito
	Repository	UnSS Treat	ient ⊯/iav ∑ i	(Σφαito ² γ	/hhi r sitas	Brawijava	Reposito
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z	Repository	Universitas	Brawijava	Re ⁶⁸ sitorv	Universitas	Brawijava	Reposito
	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
	Repository	Universitas	Brawijava	Repository	Universitas	Brawijava	Reposito



	Repository Universitas Brawija	ya	Repository	Universitas	Brawijaya	Reposito
ACIE	Repository Universitas Brawija	ya	Repository	Universitas	Brawijaya	Reposito
Y.UB	Repository Universitas Brawija	ya	Repository	Universitas	Brawijaya	Reposito
SITOF	Repository Universitas Brawija	ya	Repository	Universitas	Brawijaya	Reposito
TEPO	Repository Universitas Brawija	ya	Repository	Universitas	Brawijaya	Reposito
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UB.AC	Repository Universitas Brawija	ya	Repository	Universitas	Brawijaya	Reposito
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POSI	Repository Universitas Brawija	ya	Repusitory	Universitas	Drawijaya	Poposito
E C	Repository Universitas Brawija	ya	Popository	Universitas	Browijaya	Poposito
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s 🗎	Repository Universitas Brawija	ya Va	Repository	Universitas	Brawijaya	Reposito
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	Renository Universitas Brawija	ya Va	Repository	Universitas	Brawijaya	Renneito
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RY.UB	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
INITO	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
REPC	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
.1	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
	Repository	Appendix 3.	Analysis the	Effect of T	reatment of	Viscosity	Reposito
2	Repository	of the Small	Brawilay Die	Repository	Universitas	Brawijaya	Reposito
	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
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Ç,	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
	Repository	UnMersitas	Brawijaya	Repository	Univer9itas	B.12//±j0,/5	Reposito
	Repository	Unp2ersitas	Brawyjaya	Repository	3 niversitas	$3.17 \pm 0,41$	Reposito
AC.IE	Repository	Universitas	Brawijaya	Repository	Universitas	3.08 ± 0.66	Reposito
W.UB.	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
SITOR	Repository	Un P 4ersitas	43rawijaya4	Repository	Bnivezsitas	3.50 ± 0.55	Reposito
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N N	Repository	Univereitee	Browijaya	$2^{1}2^{1}Yij$)	$^{2}/(t \mathbf{x} \mathbf{r})^{113}$	Brawijaya	Reposito
45	Repository	Universitas	$= (97,5)^2 /$	(5 x 6)	Universitas	Drawijaya	Deposito
SI 🔰	Repository	Universitas	= 9506.25	x-30	Universitas	Drawijaya	Poposito
22	Repusitory	Universitas	P = 316.88	Repusitory	Universitas	Brawijaya	Poposito
5 🗰	Repository	Universitas	Browijaya	Repusitory	Universitas	Brawijaya	Poposito
	Repusitory	Universitas	Browijaya	Repository	Universitas	Browijaya	Poposito
C	Repository	b. Sum of S	quares Total	(ISSIY)SILUI y	Universitas	Drawijaya	Poposito
	Repusitory	SS T	otal	$\Sigma^{i}\Sigma^{j}$ (Yij	2 - CF	Browijaya	Poposito
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CID	Repository	Universitas	Braya S	21628 iton	Universites	Brawijaya	Poposito
UB.A	Repository	Universitas	Browijcom	Penositon/	Universitas	Brawijaya	Papasita
TORY	Repository	Universitas	Brawijava	Repository	Universitas	Brawijaya	Reposito
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æ	Repository	c. Sum of S	quares Treatr	ment (SST)	Universites	Brawijaya	Repusito
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Ž	Repository	Universitae	Brawijaya	Randeitony	Universites	Brawijaya	Renneitr
500	Repository	Universitae	Brawijaya	Renesitory	Universitas	Brawijaya	Renosito
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Y.UB	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
SITOF	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
TEPO	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
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	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
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S S	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
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B.AC	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
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C	Repository	Universitas	Brawijaya	Repository	Universitas	Brawijaya	Reposito
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9	Repusitory	Universitas	Diawijaya	Repusitory	Universitas	Diawijayo	i neposit
ACI	Repository I	Universitas	Brawijaya	Repository	Universitas	Brawijaya	a Reposito
Y.UB	Repository I	Universitas	Brawijaya	Repository	Universitas	Brawijava	Reposito
SITOR	Repository I	Universitas	Brawijava	Repository	Universitas	Brawijava	Reposito
EPOS	Repository I	Universitas	Brawijava	Repository	Universitas	Brawijava	Reposito
E.	Repository I	Universitas	Brawijava	Repository	Universitas	Rrawijava	Reposito
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	Repository	Universitas	Diawijaya	Repository	Universitas	Drawijaya	a Reposito
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