DAFTAR PUSTAKA

Arifin, M. Y. (2016). Pertumbuhan dan Survival Rate Ikan Nila (Oreochromis. Sp) Strain Merah dan Strain Hitam yang Dipelihara pada Media Bersalinitas. *Jurnal Ilmiah Universitas Batanghari Jambi*, *17*(3), 42–58. Retrieved from http://garuda.ristekbrin.go.id/documents/detail/521246

Asmawi. S. 1983. Pemeliharaan Ikan Dalam Keramba. Gramedia. Jakarta.

Boyd, C.E. (1982). Water quality management for pond fish culture. Amsterdam : Elsevier Scientific Publ. Co Montoya dan Velasco, 2000

Brune, D.E., G. Schwartz, A.G. Eversole, J.A Collier, and T.E Schwedler. 2003. Intensification of pond aquaculture and high rate photo-synthetic system. Journal of Aquaculture Engineering. 28. 45-86 pp.

Calabria, L.M. 2008. The Isolation and Characterization Of Triterpene Saponins From Silphium and The Shemosystematic And Biological Significance Of Saponins In The Asteraceae.Disertasi. Tidakdipublikasikan. University Of Texas, Austin.

Chen, S., Ling, J., & Blancheton, J.P. (2006). Nitrification kinetics of biofilm as affected by water quality factors. Aquaculture Engineering, 34, 179-197.

Crab, R., Avnimelech, Y., Defoirdt, T., Bossier, P., & Verstraete, W. (2007). Nitrogen Removal Technique in Aquaculture for a Sustainable Production. Aquaculture, 270, 1-14.

Ditjen POM. 2000. Parameter Standar Umum Larutan Tumbuhan Obat. Cetakan Pertama. Depkes RI. Jakarta. Hal. 13-31.

Djokosetiyanto. D , A. Sunarma dan Widanarni. 2006. Perubahan Ammonia (NH3-n), Nitrit (NO2-n) dan Nitrat (NO3- n) Pada Media Pemeliharaan Ikan Nila Merah (Oreochromis sp.) di Dalam Sistem Resirkulasi. IPB , Bogor. Vol 15 (1) : 13-20.

Effendi, H. 2003. Telaah kualitas air bagi pengelolaan sumber daya dan lingkungan perairan. Fakultas Perikanan-Institut Pertanian Bogor.

Eng-Chong, T., Yean-Kee, L., Chin-Fei, C., Choon-Han, H., Sher-Ming, W., Li-Ping, C. T., ... & Othman, S. (2012). Boesenbergia rotunda: From ethnomedicine to drug discovery. Evidence-Based Complementary and Alternative Medicine, 2012.

Eng-Chong, T., Yean-Kee, L., Chin-Fei, C., Choon-Han, H., Sher-Ming, W., Li-Ping, C. T., & Othman, S. (2012). Boesenbergia rotunda: From ethnomedicine to drug discovery. Evidence-Based Complementary and Alternative Medicine, 2012.

Feliatra. 2001. Activity of Nitrifying Bacteria (Ammonia Oxidizer and Nitrite Oxidizer) in Brackishwater Ponds (Tambak) in Bengkalis Island, Riau Province. Journal of Coastal Development, February 2001 4(2) : 51-62

Francis-Floyd, R., Watson, C., Petty, D., & Pourder, D.B. (1996). Ammonia in aquatic systems. Univ. Florida, Dept. Fisheries Aquatic Sci, Florida Coop, Ext. Serv. FA16, 4 pp.

Fujaya, Y. (2011). Pertumbuhan dan molting kepiting bakau yang diberi dosis vitomolot berbeda Growth and molting of mud crab administered by different doses of vitomolt. *Journal of Indonesia Aquaculture*, *10*(1), 24–28.

Hargreave, J.A., & Tucker C.S. (2004). Managing ammonia in fish pond. SRAC Publication 4603. Louisiana State University Agricultural Center Mississippi State University.

Hargreaves JA, & Kucuk S. (2001). Effects of diel un-ionized ammonia fluctuation on juvenile hybrid striped bass, channel catfish, and blue tilapia. Aquaculture. 195 (1-2), 163-181.

Hargreaves, J.A. (1998). Nitrogen Biogeochemistry of Aquaculture Ponds. Aquaculture 166(3-4),181-212.

Kordi M.G dan Tanjung A.B. 2007.Pengelolaan Kualitas Air dalam Budidaya Perairan. Rineka Cipta. Jakarta

Körner, S., Das, S.K., Veenstra, S., & Vermaat, J.E., (2001). The effect of pH variation at the ammonium/ammonia equilibrium in wastewater and its toxicity to Lemna gibba. Aquatic Botany, 71, 71–78.

Levinton, J.F. 1982. Marine Ecology.New Jersey Prentice-Hall Inc. Englewood Cliff.

Levit, S.M. (2010). A Literature Review of Effects of Ammonia on Fish. The Nature Conservancy, Center for Science in Public Participation, Bozeman, Montana.

Michel, G.C., I.D. Nasseem and F. Ismail. 2011. Antidiabetik activity and stability study of the formulated leaf extract of Ziziphus spina-christi with the influence of seasonal variation. Journal of Ethnopharmacology. 133(1):53-62.

Millero, F.J. 1996. Chemical Oceanography. Second edition. CRC Press Boca Raton, Boston London, New York Washington D.C.

Mujalifah, Santoso, H., & Laili, S. (2018). Kajian morfologi ikan nila (Oreochromis niloticus) dalam habitat air tawar dan air payau. Jurnal Ilmiah Biosaintropis, 3(3), 10–17.

Pillay T.V.R. 2004. Aquaculture and The Environment. Second

Popma, T., Masser, M. 1999. Tilapia Life History and Biology. United State Department of Agriculture SRAC (Southern Regional Aquaculture Center) Publication No. 283.

Ruly, R. 2011. Penentuan Waktu Retensi Sistem Akuaponik untuk Mereduksi Limbah Budidaya Ikan Nila Merah Cyprinus sp. Skripsi.Departemen Budidaya Perairan Fakultas Perikanan dan Ilmu Kelautan Institut Pertanian Bogor.25 hal.

Satia, Y. P. O. Y. (2017). Kebiasaan Makanan Ikan Nila (Oreochromis niloticus) di Danau Bekas Galian Pasir Gekbrong Cianjur - Jawa Barat. Jurnal Agroqua, 9(5), 1–6.

Sinha, A.K., Liew, H.J., Diricx, M., Blust, R., & Boeck, G.D. (2012). The Interactive Effects of Ammonia Exposure, Nutritional Status and Exercise on Metabolic and Physiological Responses in Gold Fish (Carassius auratus L.). *Aquatic Toxicology,* 109, 33–46.

Suhartati FM. 2005. Proteksi protein daun lamtoro (Leucaena leucocephala) menggunakan tanin, saponin, minyak dan penga- ruhnya terhadap ruminalt undegradable dietary protein (RUDP) dan sintesis protein mikroba rumen. Animal Production7(1): 52-58.

Widayat, W. Suprihatin dan A. Herlambang. 2010. Penyisihan Ammonia dalam Upaya Meingkatkan Kualitas Air Baku PDAM-IPA Bojong Renged dengan Proses Biofiltrasi Menggunakan Media Plastik Tipe Sarang Tawon. BPPT. JAI., 6(1): 12-13.

LAMPIRAN

Lampiran 1. Analisis One Way ANOVA dan uji lanjut W-Tuckey terhadap kandungan ammonia disetiap pengamatan dengan pemberian Vitomolt plus.

Perlakuan	Ulangan	Kadar Ammonia (mg/L)						
		D-0	D-2	D-4	D-6	D-8	D-10	D-12
A	1	0,0191	0,029	0,038	0,038	0,015	0,011	0,011
	2	0,0191	0,025	0,026	0,026	0,013	0,012	0,012
	3	0,0191	0,029	0,023	0,023	0,011	0,012	0,012
Rata-rata		0,0191	0,028	0,029	0,029	0,013	0,012	0,012
SD		0	0,002	0,008	0,008	0,002	0,001	0,001
B	1	0,0191	0,03	0,011	0,011	0,012	0,009	0,009
	2	0,0191	0,014	0,013	0,013	0,013	0,011	0,011
	3	0,0191	0,026	0,023	0,023	0,013	0,013	0,013
Rata-rata		0,0191	0,023	0,016	0,016	0,013	0,011	0,011
SD		0	0,008	0,006	0,006	0,001	0,002	0,002
C	1	0,0191	0,017	0,015	0,015	0,009	0,012	0,012
	2	0,0191	0,024	0,025	0,025	0,01	0,011	0,011
	3	0,0191	0,015	0,026	0,026	0,014	0,014	0,014
Rata-rata		0,0191	0,019	0,022	0,022	0,011	0,012	0,012
SD		0	0,005	0,006	0,006	0,003	0,002	0,002
D	1	0,0191	0,014	0,019	0,019	0,032	0,006	0,006
	2	0,0191	0,021	0,033	0,033	0,013	0,008	0,008
	3	0,0191	0,02	0,02	0,02	0,025	0,011	0,011
Rata-rata		0,0191	0,018	0,024	0,024	0,023	0,008	0,008
SD		0	0,004	0,008	0,008	0,010	0,003	0,003
E	1	0,0191	0,03	0,02	0,02	0,018	0,015	0,015
	2	0,0191	0,026	0,02	0,02	0,018	0,018	0,018
	3	0,0191	0,023	0,048	0,048	0,03	0,026	0,026
Rata-rata		0,0191	0,026	0,029	0,029	0,022	0,020	0,020
SD		0	0,004	0,016	0,016	0,007	0,006	0,006
F	1	0,0191	0,02	0,025	0,025	0,024	0,023	0,023
	2	0,0191	0,028	0,032	0,032	0,018	0,017	0,017
	3	0,0191	0,018	0,014	0,014	0,019	0,018	0,018
Rata-rata		0,0191	0,022	0,024	0,024	0,021	0,020	0,020
SD		0	0,005	0,009	0,009	0,003	0,003	0,003

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean Lower Bound	95% Confidence Interval for Mean Upper Bound	Minimum	Maximum
D2	0 PPM	3	.0277	.00231	.00133	.0219	.0334	.03	.03
	2 PPM	3	.0233	.00833	.00481	.0026	.0440	.01	.03
	4 PPM	3	.0187	.00473	.00273	.0069	.0304	.02	.02
	6 PPM	3	.0183	.00379	.00219	.0089	.0277	.01	.02
	8 PPM	3	.0263	.00351	.00203	.0176	.0351	.02	.03
	10 PPM	3	.0220	.00529	.00306	.0089	.0351	.02	.03
	Total	18	.0227	.00556	.00131	.0200	.0255	.01	.03
D4	0 PPM	3	.0290	.00794	.00458	.0093	.0487	.02	.04
	2 PPM	3	.0157	.00643	.00371	-.0003	.0316	.01	.02
	4 PPM	3	.0220	.00608	.00351	.0069	.0371	.02	.03
	6 PPM	3	.0240	.00781	.00451	.0046	.0434	.02	.03
	8 PPM	3	.0293	.01617	.00933	-.0108	.0695	.02	.05
	10 PPM	3	.0237	.00907	.00524	.0011	.0462	.01	.03
	Total	18	.0239	.00931	.00219	.0193	.0286	.01	.05
D6	0 PPM	3	.0290	.00794	.00458	.0093	.0487	.02	.04
	2 PPM	3	.0157	.00643	.00371	-.0003	.0316	.01	.02
	4 PPM	3	.0220	.00608	.00351	.0069	.0371	.02	.03
	6 PPM	3	.0240	.00781	.00451	.0046	.0434	.02	.03
	8 PPM	3	.0293	.01617	.00933	-.0108	.0695	.02	.05
	10 PPM	3	.0237	.00907	.00524	.0011	.0462	.01	.03
	Total	18	.0239	.00931	.00219	.0193	.0286	.01	.05
D8	0 PPM	3	.0130	.00200	.00115	.0080	.0180	.01	.02
	2 PPM	3	.0127	.00058	.00033	.0112	.0141	.01	.01
	4 PPM	3	.0110	.00265	.00153	.0044	.0176	.01	.01
	6 PPM	3	.0233	.00961	.00555	-.0005	.0472	.01	.03
	8 PPM	3	.0220	.00693	.00400	.0048	.0392	.02	.03
	10 PPM	3	.0203	.00321	.00186	.0123	.0283	.02	.02
	Total	18	.0171	.00671	.00158	.0137	.0204	.01	.03
D10	0 PPM	3	.0117	.00058	.00033	.0102	.0131	.01	.01
	2 PPM	3	.0110	.00200	.00115	.0060	.0160	.01	.01
	4 PPM	3	.0123	.00153	.00088	.0085	.0161	.01	.01
	6 PPM	3	.0083	.00252	.00145	.0021	.0146	.01	.01
	8 PPM	3	.0197	.00569	.00328	.0055	.0338	.02	.03

	10 PPM	3	.0193	.00321	.00186	.0113	.0273	.02	.02
	Total	18	.0137	.00509	.00120	.0112	.0163	.01	.03
D12	0 PPM	3	.0117	.00058	.00033	.0102	.0131	.01	.01
	2 PPM	3	.0110	.00200	.00115	.0060	.0160	.01	.01
	4 PPM	3	.0123	.00153	.00088	.0085	.0161	.01	.01
	6 PPM	3	.0083	.00252	.00145	.0021	.0146	.01	.01
	8 PPM	3	.0197	.00569	.00328	.0055	.0338	.02	.03
	10 PPM	3	.0193	.00321	.00186	.0113	.0273	.02	.02
	Total	18	.0137	.00509	.00120	.0112	.0163	.01	.03
Total	0 PPM	3	.1220	.01744	.01007	.0787	.1653	.11	.14
	2 PPM	3	.0893	.01909	.01102	.0419	.1367	.08	.11
	4 PPM	3	.0983	.01595	.00921	.0587	.1379	.08	.11
	6 PPM	3	.1063	.01002	.00578	.0815	.1312	.10	.12
	8 PPM	3	.1463	.04735	.02734	.0287	.2640	.12	.20
	10 PPM	3	.1283	.02376	.01372	.0693	.1873	.10	.14
	Total	18	.1151	.02902	.00684	.1007	.1295	.08	.20

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
D2	Based on Mean	1.787	5	12	.190
	Based on Median	.378	5	12	.854
	Based on Median and with adjusted df	.378	5	7.620	.850
	Based on trimmed mean	1.614	5	12	.230
D4	Based on Mean	1.992	5	12	.152
	Based on Median	.175	5	12	.967
	Based on Median and with adjusted df	.175	5	5.194	.961
	Based on trimmed mean	1.675	5	12	.215
D6	Based on Mean	1.992	5	12	.152
	Based on Median	.175	5	12	.967
	Based on Median and with adjusted df	.175	5	5.194	.961
	Based on trimmed mean	1.675	5	12	.215
D8	Based on Mean	3.711	5	12	.029
	Based on Median	.883	5	12	.522

	Based on Median and with adjusted df	.883	5	5.130	.552
	Based on trimmed mean	3.406	5	12	.038
D10	Based on Mean	3.032	5	12	.054
	Based on Median	.819	5	12	.559
	Based on Median and with adjusted df	.819	5	4.954	.584
	Based on trimmed mean	2.807	5	12	.066
D12	Based on Mean	3.032	5	12	.054
	Based on Median	.819	5	12	.559
	Based on Median and with adjusted df	.819	5	4.954	.584
	Based on trimmed mean	2.807	5	12	.066
Total	Based on Mean	4.066	5	12	.022
	Based on Median	.299	5	12	.904
	Based on Median and with adjusted df	.299	5	4.404	.893
	Based on trimmed mean	3.322	5	12	.041

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
D2	Between Groups	.000	5	.000	1.759	.196
	Within Groups	.000	12	.000		
	Total	.001	17			
D4	Between Groups	.000	5	.000	.837	.548
	Within Groups	.001	12	.000		
	Total	.001	17			
D6	Between Groups	.000	5	.000	.837	.548
	Within Groups	.001	12	.000		
	Total	.001	17			
D8	Between Groups	.000	5	.000	3.266	.043
	Within Groups	.000	12	.000		
	Total	.001	17			
D10	Between Groups	.000	5	.000	7.077	.003
	Within Groups	.000	12	.000		
	Total	.000	17			
D12	Between Groups	.000	5	.000	7.077	.003
	Within Groups	.000	12	.000		
	Total	.000	17			

Total	Between Groups	.007	5	.001	2.087	.138
	Within Groups	.008	12	.001		
	Total	.014	17			

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
D2	0 PPM	2 PPM	.00433	.00411	.890	-.0095	.0181
		4 PPM	.00900	.00411	.308	-.0048	.0228
		6 PPM	.00933	.00411	.275	-.0045	.0231
		8 PPM	.00133	.00411	.999	-.0125	.0151
		10 PPM	.00567	.00411	.737	-.0081	.0195
	2 PPM	0 PPM	-.00433	.00411	.890	-.0181	.0095
		4 PPM	.00467	.00411	.857	-.0091	.0185
		6 PPM	.00500	.00411	.820	-.0088	.0188
		8 PPM	-.00300	.00411	.974	-.0168	.0108
		10 PPM	.00133	.00411	.999	-.0125	.0151
	4 PPM	0 PPM	-.00900	.00411	.308	-.0228	.0048
		2 PPM	-.00467	.00411	.857	-.0185	.0091
		6 PPM	.00033	.00411	1.000	-.0135	.0141
		8 PPM	-.00767	.00411	.463	-.0215	.0061
		10 PPM	-.00333	.00411	.960	-.0171	.0105
	6 PPM	0 PPM	-.00933	.00411	.275	-.0231	.0045
		2 PPM	-.00500	.00411	.820	-.0188	.0088
		4 PPM	-.00033	.00411	1.000	-.0141	.0135
		8 PPM	-.00800	.00411	.421	-.0218	.0058
		10 PPM	-.00367	.00411	.941	-.0175	.0101
	8 PPM	0 PPM	-.00133	.00411	.999	-.0151	.0125
		2 PPM	.00300	.00411	.974	-.0108	.0168
		4 PPM	.00767	.00411	.463	-.0061	.0215
		6 PPM	.00800	.00411	.421	-.0058	.0218
		10 PPM	.00433	.00411	.890	-.0095	.0181
	10 PPM	0 PPM	-.00567	.00411	.737	-.0195	.0081
		2 PPM	-.00133	.00411	.999	-.0151	.0125
		4 PPM	.00333	.00411	.960	-.0105	.0171
		6 PPM	.00367	.00411	.941	-.0101	.0175
		8 PPM	-.00433	.00411	.890	-.0181	.0095

D4	0 PPM	2 PPM	.01333	.00779	.549	-.0128	.0395
		4 PPM	.00700	.00779	.940	-.0192	.0332
		6 PPM	.00500	.00779	.985	-.0212	.0312
		8 PPM	-.00033	.00779	1.000	-.0265	.0258
		10 PPM	.00533	.00779	.980	-.0208	.0315
	2 PPM	0 PPM	-.01333	.00779	.549	-.0395	.0128
		4 PPM	-.00633	.00779	.959	-.0325	.0198
		6 PPM	-.00833	.00779	.884	-.0345	.0178
		8 PPM	-.01367	.00779	.525	-.0398	.0125
		10 PPM	-.00800	.00779	.900	-.0342	.0182
	4 PPM	0 PPM	-.00700	.00779	.940	-.0332	.0192
		2 PPM	.00633	.00779	.959	-.0198	.0325
		6 PPM	-.00200	.00779	1.000	-.0282	.0242
		8 PPM	-.00733	.00779	.928	-.0335	.0188
		10 PPM	-.00167	.00779	1.000	-.0278	.0245
	6 PPM	0 PPM	-.00500	.00779	.985	-.0312	.0212
		2 PPM	.00833	.00779	.884	-.0178	.0345
		4 PPM	.00200	.00779	1.000	-.0242	.0282
		8 PPM	-.00533	.00779	.980	-.0315	.0208
		10 PPM	.00033	.00779	1.000	-.0258	.0265
	8 PPM	0 PPM	.00033	.00779	1.000	-.0258	.0265
		2 PPM	.01367	.00779	.525	-.0125	.0398
		4 PPM	.00733	.00779	.928	-.0188	.0335
		6 PPM	.00533	.00779	.980	-.0208	.0315
		10 PPM	.00567	.00779	.975	-.0205	.0318
	10 PPM	0 PPM	-.00533	.00779	.980	-.0315	.0208
		2 PPM	.00800	.00779	.900	-.0182	.0342
		4 PPM	.00167	.00779	1.000	-.0245	.0278
		6 PPM	-.00033	.00779	1.000	-.0265	.0258
		8 PPM	-.00567	.00779	.975	-.0318	.0205
D6	0 PPM	2 PPM	.01333	.00779	.549	-.0128	.0395
		4 PPM	.00700	.00779	.940	-.0192	.0332
		6 PPM	.00500	.00779	.985	-.0212	.0312
		8 PPM	-.00033	.00779	1.000	-.0265	.0258
		10 PPM	.00533	.00779	.980	-.0208	.0315
	2 PPM	0 PPM	-.01333	.00779	.549	-.0395	.0128
		4 PPM	-.00633	.00779	.959	-.0325	.0198
		6 PPM	-.00833	.00779	.884	-.0345	.0178
		8 PPM	-.01367	.00779	.525	-.0398	.0125
		10 PPM	-.00800	.00779	.900	-.0342	.0182
	4 PPM	0 PPM	-.00700	.00779	.940	-.0332	.0192

		2 PPM	.00633	.00779	.959	-.0198	.0325
		6 PPM	-.00200	.00779	1.000	-.0282	.0242
		8 PPM	-.00733	.00779	.928	-.0335	.0188
		10 PPM	-.00167	.00779	1.000	-.0278	.0245
	6 PPM	0 PPM	-.00500	.00779	.985	-.0312	.0212
		2 PPM	.00833	.00779	.884	-.0178	.0345
		4 PPM	.00200	.00779	1.000	-.0242	.0282
		8 PPM	-.00533	.00779	.980	-.0315	.0208
		10 PPM	.00033	.00779	1.000	-.0258	.0265
	8 PPM	0 PPM	.00033	.00779	1.000	-.0258	.0265
		2 PPM	.01367	.00779	.525	-.0125	.0398
		4 PPM	.00733	.00779	.928	-.0188	.0335
		6 PPM	.00533	.00779	.980	-.0208	.0315
		10 PPM	.00567	.00779	.975	-.0205	.0318
	10 PPM	0 PPM	-.00533	.00779	.980	-.0315	.0208
		2 PPM	.00800	.00779	.900	-.0182	.0342
		4 PPM	.00167	.00779	1.000	-.0245	.0278
		6 PPM	-.00033	.00779	1.000	-.0265	.0258
		8 PPM	-.00567	.00779	.975	-.0318	.0205
D8	0 PPM	2 PPM	.00033	.00424	1.000	-.0139	.0146
		4 PPM	.00200	.00424	.996	-.0123	.0163
		6 PPM	-.01033	.00424	.218	-.0246	.0039
		8 PPM	-.00900	.00424	.339	-.0233	.0053
		10 PPM	-.00733	.00424	.540	-.0216	.0069
	2 PPM	0 PPM	-.00033	.00424	1.000	-.0146	.0139
		4 PPM	.00167	.00424	.998	-.0126	.0159
		6 PPM	-.01067	.00424	.194	-.0249	.0036
		8 PPM	-.00933	.00424	.305	-.0236	.0049
		10 PPM	-.00767	.00424	.496	-.0219	.0066
	4 PPM	0 PPM	-.00200	.00424	.996	-.0163	.0123
		2 PPM	-.00167	.00424	.998	-.0159	.0126
		6 PPM	-.01233	.00424	.105	-.0266	.0019
		8 PPM	-.01100	.00424	.173	-.0253	.0033
		10 PPM	-.00933	.00424	.305	-.0236	.0049
	6 PPM	0 PPM	.01033	.00424	.218	-.0039	.0246
		2 PPM	.01067	.00424	.194	-.0036	.0249
		4 PPM	.01233	.00424	.105	-.0019	.0266
		8 PPM	.00133	.00424	.999	-.0129	.0156
		10 PPM	.00300	.00424	.977	-.0113	.0173
	8 PPM	0 PPM	.00900	.00424	.339	-.0053	.0233
		2 PPM	.00933	.00424	.305	-.0049	.0236

		4 PPM	.01100	.00424	.173	-.0033	.0253
		6 PPM	-.00133	.00424	.999	-.0156	.0129
		10 PPM	.00167	.00424	.998	-.0126	.0159
	10 PPM	0 PPM	.00733	.00424	.540	-.0069	.0216
		2 PPM	.00767	.00424	.496	-.0066	.0219
		4 PPM	.00933	.00424	.305	-.0049	.0236
		6 PPM	-.00300	.00424	.977	-.0173	.0113
		8 PPM	-.00167	.00424	.998	-.0159	.0126
D10	0 PPM	2 PPM	.00067	.00249	1.000	-.0077	.0090
		4 PPM	-.00067	.00249	1.000	-.0090	.0077
		6 PPM	.00333	.00249	.759	-.0050	.0117
		8 PPM	-.00800	.00249	.063	-.0164	.0004
		10 PPM	-.00767	.00249	.079	-.0160	.0007
	2 PPM	0 PPM	-.00067	.00249	1.000	-.0090	.0077
		4 PPM	-.00133	.00249	.993	-.0097	.0070
		6 PPM	.00267	.00249	.883	-.0057	.0110
		8 PPM	-.00867*	.00249	.040	-.0170	-.0003
		10 PPM	-.00833	.00249	.051	-.0167	.0000
	4 PPM	0 PPM	.00067	.00249	1.000	-.0077	.0090
		2 PPM	.00133	.00249	.993	-.0070	.0097
		6 PPM	.00400	.00249	.609	-.0044	.0124
		8 PPM	-.00733	.00249	.098	-.0157	.0010
		10 PPM	-.00700	.00249	.122	-.0154	.0014
	6 PPM	0 PPM	-.00333	.00249	.759	-.0117	.0050
		2 PPM	-.00267	.00249	.883	-.0110	.0057
		4 PPM	-.00400	.00249	.609	-.0124	.0044
		8 PPM	-.01133*	.00249	.007	-.0197	-.0030
		10 PPM	-.01100*	.00249	.008	-.0194	-.0026
	8 PPM	0 PPM	.00800	.00249	.063	-.0004	.0164
		2 PPM	.00867*	.00249	.040	.0003	.0170
		4 PPM	.00733	.00249	.098	-.0010	.0157
		6 PPM	.01133*	.00249	.007	.0030	.0197
		10 PPM	.00033	.00249	1.000	-.0080	.0087
	10 PPM	0 PPM	.00767	.00249	.079	-.0007	.0160
		2 PPM	.00833	.00249	.051	.0000	.0167
		4 PPM	.00700	.00249	.122	-.0014	.0154
		6 PPM	.01100*	.00249	.008	.0026	.0194
		8 PPM	-.00033	.00249	1.000	-.0087	.0080
D12	0 PPM	2 PPM	.00067	.00249	1.000	-.0077	.0090
		4 PPM	-.00067	.00249	1.000	-.0090	.0077
		6 PPM	.00333	.00249	.759	-.0050	.0117

		8 PPM	-.00800	.00249	.063	-.0164	.0004
		10 PPM	-.00767	.00249	.079	-.0160	.0007
	2 PPM	0 PPM	-.00067	.00249	1.000	-.0090	.0077
		4 PPM	-.00133	.00249	.993	-.0097	.0070
		6 PPM	.00267	.00249	.883	-.0057	.0110
		8 PPM	-.00867*	.00249	.040	-.0170	-.0003
		10 PPM	-.00833	.00249	.051	-.0167	.0000
	4 PPM	0 PPM	.00067	.00249	1.000	-.0077	.0090
		2 PPM	.00133	.00249	.993	-.0070	.0097
		6 PPM	.00400	.00249	.609	-.0044	.0124
		8 PPM	-.00733	.00249	.098	-.0157	.0010
		10 PPM	-.00700	.00249	.122	-.0154	.0014
	6 PPM	0 PPM	-.00333	.00249	.759	-.0117	.0050
		2 PPM	-.00267	.00249	.883	-.0110	.0057
		4 PPM	-.00400	.00249	.609	-.0124	.0044
		8 PPM	-.01133*	.00249	.007	-.0197	-.0030
		10 PPM	-.01100*	.00249	.008	-.0194	-.0026
	8 PPM	0 PPM	.00800	.00249	.063	-.0004	.0164
		2 PPM	.00867*	.00249	.040	.0003	.0170
		4 PPM	.00733	.00249	.098	-.0010	.0157
		6 PPM	.01133*	.00249	.007	.0030	.0197
		10 PPM	.00033	.00249	1.000	-.0080	.0087
	10 PPM	0 PPM	.00767	.00249	.079	-.0007	.0160
		2 PPM	.00833	.00249	.051	.0000	.0167
		4 PPM	.00700	.00249	.122	-.0014	.0154
		6 PPM	.0	.00249	.008	.0026	.0194
		8 PPM	-.00033	.00249	1.000	-.0087	.0080
Total	0 PPM	2 PPM	.03267	.02063	.623	-.0366	.1020
		4 PPM	.02367	.02063	.852	-.0456	.0930
		6 PPM	.01567	.02063	.969	-.0536	.0850
		8 PPM	-.02433	.02063	.838	-.0936	.0450
		10 PPM	-.00633	.02063	1.000	-.0756	.0630
	2 PPM	0 PPM	-.03267	.02063	.623	-.1020	.0366
		4 PPM	-.00900	.02063	.997	-.0783	.0603
		6 PPM	-.01700	.02063	.957	-.0863	.0523
		8 PPM	-.05700	.02063	.132	-.1263	.0123
		10 PPM	-.03900	.02063	.451	-.1083	.0303
	4 PPM	0 PPM	-.02367	.02063	.852	-.0930	.0456
		2 PPM	.00900	.02063	.997	-.0603	.0783
		6 PPM	-.00800	.02063	.999	-.0773	.0613
		8 PPM	-.04800	.02063	.255	-.1173	.0213

		10 PPM	-.03000	.02063	.697	-.0993	.0393
	6 PPM	0 PPM	-.01567	.02063	.969	-.0850	.0536
		2 PPM	.01700	.02063	.957	-.0523	.0863
		4 PPM	.00800	.02063	.999	-.0613	.0773
		8 PPM	-.04000	.02063	.426	-.1093	.0293
		10 PPM	-.02200	.02063	.885	-.0913	.0473
	8 PPM	0 PPM	.02433	.02063	.838	-.0450	.0936
		2 PPM	.05700	.02063	.132	-.0123	.1263
		4 PPM	.04800	.02063	.255	-.0213	.1173
		6 PPM	.04000	.02063	.426	-.0293	.1093
		10 PPM	.01800	.02063	.946	-.0513	.0873
	10 PPM	0 PPM	.00633	.02063	1.000	-.0630	.0756
		2 PPM	.03900	.02063	.451	-.0303	.1083
		4 PPM	.03000	.02063	.697	-.0393	.0993
		6 PPM	.02200	.02063	.885	-.0473	.0913
		8 PPM	-.01800	.02063	.946	-.0873	.0513

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

D2

Tukey HSD[a]

Perlakuan	N	Subset for alpha = 0.05 1
6 PPM	3	.0183
4 PPM	3	.0187
10 PPM	3	.0220
2 PPM	3	.0233
8 PPM	3	.0263
0 PPM	3	.0277
Sig.		.275

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

D4

Tukey HSD[a]

Perlakuan	N	Subset for alpha = 0.05
		1
2 PPM	3	.0157
4 PPM	3	.0220
10 PPM	3	.0237
6 PPM	3	.0240
0 PPM	3	.0290
8 PPM	3	.0293
Sig.		.525

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

D6

Tukey HSD[a]

Perlakuan	N	Subset for alpha = 0.05
		1
2 PPM	3	.0157
4 PPM	3	.0220
10 PPM	3	.0237
6 PPM	3	.0240
0 PPM	3	.0290
8 PPM	3	.0293
Sig.		.525

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

D8

Tukey HSD[a]

Perlakuan	N	Subset for alpha = 0.05

		1
4 PPM	3	.0110
2 PPM	3	.0127
0 PPM	3	.0130
10 PPM	3	.0203
8 PPM	3	.0220
6 PPM	3	.0233
Sig.		.105

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

D10

Tukey HSD[a]

		Subset for alpha = 0.05		
Perlakuan	N	1	2	3
6 PPM	3	.0083		
2 PPM	3	.0110	.0110	
0 PPM	3	.0117	.0117	.0117
4 PPM	3	.0123	.0123	.0123
10 PPM	3		.0193	.0193
8 PPM	3			.0197
Sig.		.609	.051	.063

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

D12

Tukey HSD[a]

		Subset for alpha = 0.05		
Perlakuan	N	1	2	3
6 PPM	3	.0083		
2 PPM	3	.0110	.0110	
0 PPM	3	.0117	.0117	.0117
4 PPM	3	.0123	.0123	.0123
10 PPM	3		.0193	.0193
8 PPM	3			.0197
Sig.		.609	.051	.063

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Total

Tukey HSD[a]

Perlakuan	N	Subset for alpha = 0.05 1
2 PPM	3	.0893
4 PPM	3	.0983
6 PPM	3	.1063
0 PPM	3	.1220
10 PPM	3	.1283
8 PPM	3	.1463
Sig.		.132

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 2. Dokumentasi kegiatan penelitian