DAFTAR PUSTAKA

Abdulrachman, S., Wibowo, S., Suhartatik, E., Pratiwi, G. R., Abdulah, B., Jamil, A., Mejaya, M. J., Zaini, Z., Sasmita, P., Baliadi, Y., Suwarno, Makarim, A. K., Widiarta, I. N., Dhalimi, A., Widowati, L. R. 2015. Panduan Teknologi Budidaya Hazton Pada Tanaman Padi. Badan Penelitian dan Pengembangan Pertanian Kementerian Pertanian. hal 28.

Artanti, Y. 2009. Penggunaan Benih Padi Varietas SL-8 Ditinjau Dari Peningkatan Pendapatan Usahatani Padi Di Kabupaten Karanganyar. Skripsi Fakultas Pertanian Universitas Sebelas Maret Surakarta. 69 hal.

Baehaki, S. E. dan Widiarta, I. Y. 2009. Hama Wereng dan Cara Pengendaliannya Pada Tanaman Padi. Balai Besar Penelitian Tanaman Padi. hal 347-385.

Baehaki, S. E. 2012. Perkembangan Biotipe Hama Wereng Coklat pada Tanaman Padi. Iptek Tanaman Pangan Vol. 7, No. 1: hal 8-17.

Bakar, A. B. 2012. Mengenal Wereng Coklat. Seri Inovasi Pembangunan Serambi Pertanina BPTP NAD. Vo VI. No. 2. hal 1-2.

Bambang, S., Daradjat, A. A., Satoto, Baehaki, S.E., Suprihanto, Setyono, A., Dewi, S. I., Putu, I. W., Sembiring, H. 2010. Deskripsi Padi. Balai Besar Penelitian Tanaman Padi Badan Penelitian dan Pengembangan Pertanian Departemen Pertanian. 99 hal.

Birch LC. 1948. The Intristic Rate of Natural Increase of An Insect Population. The Journal of Animal Ecology 17: 15-26.

Barbosa, F. Cocroft, R., Gerhardt, C. 2011. Postcopulatory Sexual Selection In The Sordier Fly *Merosargus cingulatus*. Disertation The Faculty of the Graduate School University of Missouri.

Bonduriansky, R. 2001. The Evolution of Male Mate Choice In Insects: a Synthesis of Ideas and Evidence. Biol Rev Camb. Philos Soc 76(3): 305-309.

California Academy Of Sciences. 2012. Brown Planthopper (*Nilaparvata lugens*). iNaturalist.org. On line http://www.inaturalist.org/taxa/205266-Nilaparvata-lugens #Biology. Diakses pada tanggal 22 Januari 2016.

Danforth, B. N., Desjardins, C. A. 1999. Male dimorphism in *Perdita portalis* (Hymenoptera, Andrenidae) Has Arisen From Preexisting Allometric Patterns. Insectes Soc 46: 18-28.

Denno, R. F., Perfect, T. J. 1994. Planthoppers: Their Ecology and Management. Chapman and Hall. Inc. New York : 787 hal.

Dingle, H. 1978. Evolution of Insect Migration and Diapause. Springer- Verlag : Berlin. 281 hal.

Ferrater, J. B. 2015. Adaptation of the Brown Planthopper, *Nilaparvata lugens* (Stal), to Resistant Rice Varieties. Wageningen University. PhD thesis ISBN 978-94-6257-559-2. 209 hal.

Flay, C. D., He, X. Z., Wang, Q. 2009. Influence of Male Density On The Courtship and Mating Duration of Male Rice Weevils, *Sitophilus oryzae*. Journal New Zealand Plant Protection 62: 76-79.

Gatehouse, A. G., dan Zhang, X. X. 1995. Migratory Potential in Insects: Variation in an Uncertain Environment. Carbridge University Press. Hal 193-242.

Ge, L. Q., Jiang, Y. P., Xia, T., Song, Q. S., Stanley, D., Kuai. P., Lu, X. L., Yang, G. Q., Wu, J. C. 2015. Silencing a Sugar Trnasporter Gene Reduces Growth and Fecundity in The Brown Planthopper, *Nilaparvata lugens* (Stal) (Hemiptera: Delphacidae). Journal Scientific Reports 5: 12194

Habibi, I. 2015. Perbandingan Kombinasi Imago Wereng Coklat. Masalah Khusus: Universitas Gadjah Mada.

Hadi, S., Budiarti, T., Haryadi. 2005. Studi Komersialisasi Benih Padi Sawah Varietas Unggul. Buletin Agron (33) 1: hal 12-18.

Handayani, I. S. 2015. Keanekaragaman Arthropoda pada Tanaman Padi Ladang (*Oryza sativa*) dengan Barrier Tanaman Babadotan (Asteraceae; *Ageratum conyzoides* L.) Skripsi Jurusan Ilmu Hama dan Penyakit Tumbuhan Fakultas Pertanian Universitas Hasanuddin Makasar.

Harari, A. R., Landolt, P. J., O'Brien, C. W., Brockmann, H. J. 2002. Prolonged Mate Guarding and Sperma Competition in The Weevil *Diaprepes abbreviates* (L.). Oxford Journals Behavioral Ecology Vol 14. No. 1: 89-96.

Harbourne, J. B. 1993. The Flavonoids Advances In Research Since 1986. Chapman Hall/CRC : Florida. hal 677.

Horgan, F. G., Naik, B. S., Iswanto, E. H., Almazan, M. L. P., Ramal, A. F., Bernal, C. C. 2016. Responses by the Brown Planthopper, *Nilaparvata lugens* (Stal), to Conspecific Density n Resistant and Susceptible Rice Varieties. *Entomologia Experimentalis et Applicata* 1-29. Doi: 10.1111/eea.12400

Horgan, F. G., Ramal, A. F., Bentur, J. S., Kumar, R., Bhanu, K. V., Sarao, P. S., Iswanto, E. H., Chien, H. V., Phyu, M. H., Bernal, C. C., Almazan, M. L. P., Alam, M. Z., Lu, Z., Huang, S. H. 2015. Virulence of Brown Planthopper (*Nilaparvata lugens*) Populations From South and South East Asia Againt Resistant Rice Varieties. Journal Crop Protection Vol 78. hal 222-231.

Hu, D. B., Luo, B. Q., Li, J. Han, Y., Jian T. R., Liu, J., Wu, G., Hua, H. X., Xiong, Y. F., Li, J. S. Genome-Wide Analysis Of *Nilaparvata lugens* Nymphal Responses To High-Density And Low-Quality Rice Hosts. Journal Insect Science Vol. 20. No. 6. Hal 703-716.

Hu, J. H., Wu, J. C., Yin, J. Y., Gu, H. N. 2010. Physiology of Insecticide-Induced Stimulation of Reproduction in The Rice Brown Planthopper (*Nilaparvata lugens* (Stal)): Dynamic of Protein in Fat Body and Ovary. International Journal of Pest Management Vol 56 No. 1. hal 23-30.

Iba, M., Nagao, T., Urano, A. 1995. Effects of Populatin Desity on Growth, Behavior and Levels of Biogenic Amines in The Cricket, *Gryllus bimaculatus.* Journal Zoological Science Vol 12: hal 695-702.

Irawan, B., Simatupang, P., Kustiari, R., Sugiarto, Supadi, Sinuraya, J. F., Iqbal M., Ariani, M., Darwis, V., Elizabeth, R., Sunarsih, Muslim, C., Bastuti, T., Nurasa, T. 2007. PATANAS (Panel Petani Nasional): Analisis Indikator Pembangunan Pertanian dan Pedesaan. Laporan Akhir Penelitian TA 2007. Pusat Analisis Sosial Ekonomi dan Kebijakan Pertanian Badan Penelitian dan Pengembangan Pertanian Departemen Pertanian. hal 10.

Heong, K. L, Hardy, B. 2009. Planthoppers: New Threats To The Sustainability Of Intensive Rice Production Systems In Asia. IRRI. Manila. hal 460.

Jaworski, T., Hilszczanski, J. 2013. The Effect of Temperature and Humidity Changes on Insects Development and Their Impact on Forest Ecosystems In The Context of Expected Climate Change. Journal Lesne Prace Badawcze (Forest Research Papers) Vol. 74, No. 4. hal 345-355.

Kajimura T, I. N. Widiarta, K. Nagai, K. Fujisaki, F. Nakasuji. 1995. Effect of Organic Rice Farming on Planthopper, *Sogatella furcifera* Hovart (Homoptera: Delphacidae). Res. Popul. Ecol. 37: 219-224.

Khaliq, A. Javed, M., Sohail, M., Sagheer, M. 2014. Environmental Effects on Insects and Their Population Dynamic. Journal of Entomology and Zoology Studies Vol. 2, No. 2: hal 1-7.

Khatun, R. M. 2006. Studies on The Varietal Resistance of Rice to The Brown Planthopper, *Nilaparvata lugens* Stal. Thesis Departement of Entomology Bangladesh Agricultural University Mymensingh. hal 71.

Kusumawati, A. Y. 2007. Substitusi Tepung Ketan Dengan Tepung Ubi Jalar (*Ipomoea batatas* L) Pada Pembuatan Onde-Onde dan Wingko Babat. Skripsi. Jurusan Teknologi Hasil Pertanian Fakultas Teknologi Pertanian Universitas Jember.

Lin, X. Yao, Y., Wang, B., Lavine, M. D., Lavine, L. C. 2016. Foxo Links Wing Form Polyphenism And Wound Healing In The Brown Planthopper, *Nilaparvata lugens*. Journal Insect Biochemistry and Molecular Biology Vol 70. hal 24-31.

Maheshwati, M. U., Suresh, S., Emmanuel, N. 2006. Evaluation of Mechanisms of Resistance in Conventional and Hybrid Rice Varieties Against, *Nilaparvata lugens* Stal. Annals of Plant Protection Sciences. 14(2): 319 - 322.

Nurhati, I., Ramdhaniati, S., Zuraida, N. 2008. Peranan dan Dominasi Varietas UNggul Baru dalam Peningkatan Produksi Padi di Jawa Barat. Buletin Plasma Nutfah Vol. 14, No. 1

Nylin, S., Gotthard, K. 1998. Plasticity in Life-History Traits. Annu Rev. Entomol 43: 63-83.

Prestidge, R. A. Instar Duration, Adult Consumption, Oviposition and Nitrogen Utilization Efficiencies of Leafhoppers Feeding on Different Quality Food (Auchenorrhyncha: Homoptera). Ecological Entomology Vol. 7, No. 1 :91-101. DOI:10.1111/j.1365-2311.1982.tb00647.x

Prosiding Seminar Nasional Lahan Suboptimal, Palembang, 2014, Serangan Hama Wereng dan Kepik pada Tanaman Padi di Sawah Lebak Sumatera Selatan, Anggraini, S., Herlinda, S., Irsan, C., Umayah A.

Rani, P. U., Jyothsna, Y. 2010. Biochemical and Enzymatic Changes in Rice Plants as a Mechanism of Defense. Acta Physiologiae Plantarum 32(4): 695-701.

Rashid, M. M., Jahan, M., Islam, K. S., Bari, M. N., Haque, S. S. 2013. Effect of Nutrien Management on Population Growth of Brown Planthopper, *Nilaparvata lugens* (Stal). Journal Bangladesh Rice 17 (1&2): 38-48.

Rindra, Y., Talitha, T. 2015. Pengembangan Alat Pengendali Hama Wereng Coklat Otomatis Dengan Motion Sensor. Seminar National IENACO-2015. hal 108-115.

Rohde, K. Dreher, E., Hochkirch, A. 2015. Sex-Specific Phenotypic Plasticity in response to The Trade-Off between Developmental Time and Body Size Supports The Dimorphic Niche Hypothesis. Biological Journal of The Linnean Society, Vol. 115. hal 48-57.

Romadhon, S. 2007. Analisis Tingkat Serangan Wereng Batang Coklat (*Nilaparvata lugens* Stal.) Berdasarkan Faktor Iklim (Studi Kasus: 10 Kabupaten Endemik di Provinsi Jawa Barat). Skripsi Fakultas Matematika dan Ilmu Pengetahuan Alam. Institut Pertanian Bogor.

Romdon, A. S., Kurniyati, E., Bahri, S., Pramono, J. 2014. Kumpulan Deskripsi Varietas Padi. Badan Penelitian dan Pengembangan Pertanian Balai Besar Pengkajian dan Pengembangan Teknologi Pertanian Balai Pengkajian Teknologi Pertanian Jawa Tengah. hal 275.

Roth, I. 2012. Task For Vegetation Science : 17 Stratification of a Tropical Forest as Seen In Dispersal Types by Ingrid Roth. Dr W. Junk Publishers : Boston. hal 323.

Saxena, R. C., Liquido, N., Okech, S. H. O. 1981. Wing Morphism in the Brown Planthopper, *Nilaparvata lugens*. Internatonal Journal of Tropical Insect Science 1(4) doi. 10.1017/s1742758400000631

Shentu, X. P., Li, D. T., Xu, J. F., She, L., Yu, X. P. X., 2015. Effects Of Fungicides On The Yeast-Like Symbiotes And Their Host, *Nilaparvata lugens* Stal (Hemiptera: Delphacidae). Journal Pesticide Biochemistry and Physiology. hal 1-7.

Sembiring, H. 2009. Deskripsi Varietas Padi. Balai Besar Penelitian Tanaman Padi Badan Penelitian dan Pengembangan Pertanian Departemen Pertanian. hal 113.

Shimada, M., Ishii, Y., Shibao, H. 2010. Rapid Adaptation: A New Dimension For Evolutionary Perpectives In Ecology. Special Feature: Review Rapid Adaptation. Popul Ecol 52: 5-14.

Siregar, H. A. 2014. Populasi Hama Wereng Cokelat (*Nilaparvata lugens* Stal) Pada Tanaman Padi Varietas Hibrida dan Non Hibrida di Lokasi Tanam IP 300. Skripsi Fakultas Pertanian Universitas Jember.

Simmons, L. 2001. Sperm Competition and Its Evolutionary Consequences in The Insects. Princeston University Press. New Jersey. hal 448.

Sitaresmi, T., Wening, R. H., Rakhmi, A. T. Yunani, N., Susanto, U. 2013. Pemanfaatan Plasma Nutfah Padi Varietas Lokal dalam Perakitan Varietas Unggul. Iptek Tanaman Pangan Vol 8. No.1. hal 22 - 30.

Smith, C. M. 1989. Plant Resistance to Insects. A Fundamental Approach. John Wiley & Co. New York. 286 hal.

Subagyo, V. N. O., Purnama, H. 2014. Neraca Kehidupan Kutu Kebul *Bemicia tabaci* (Gennadius) (Hemiptera: Aleyrodidae) pada Tanaman Cabai dan Gulma Babadotan pada Suhu 25ºC dan 29ºC. Journal Entomologi Indonesia Vol 11. No. 1. hal 11-18.

Subantoro, R., Wahyuningsih, S., Prabowo, R. 2008. Pemuliaan Tanaman Padi (*Oryza sativa* L.) Varietas Lokal Menjadi Varietas Lokal Yang Unggul. Jurnal Mediagro Vol 4. No.2 : hal 62-74.

Suhartini, T. 2004. Perbaikan Varietas Padi untuk Lahan Keracunan Fe. Balai Besar Penelitian dan Pengembangan Bioteknologi dan Sumberdaya Genetik Pertanian Bogor. Buletin Plasma Nutfah Vol. 10. No. 1. hal 1-11.

Sulaksono, B., Nabiu, M., Akhmadi, Budiyati, S., Munawar, W., Rahayu, S. K., Smeru Laporan Penelitian Pendanaan Usahatani Padi Pasca KUT, Kredit Ketahanan Pangan (KKP). Laporan dari Lembaga Penelitian SMERU, dengan dukungan dari AusAID dan Ford Foundation.

Susniahti, N., Sumeno, Sudarjat. 2005. Bahan Ajar Ilmu Hama Tumbuhan. Fakultas Petanian Universitas Padjadjaran Bandung. hal 81.

Syam, M., Wurjandari, D. 2005. Masalah Lapang Hama Penyakit Hara pada Padi. Cetakan Kedua. Atas kerjasama Balai Penelitian Tanaman Padi, BPTP Sumatera Utara, BPTP Kalimatan Selatan dan IRRI. hal 71.

Tingey, W. M. 1986. Techniques For Evaluating Plant Resistance to Insects. In: Insect - Plant Interactions. (Eds): J. R. Miller T. A. Miller and M. Berenbaum Vol. 9. Springer - Verlag. New York. hal 251-284.

Umboh, N. T., Pinaria, B. A. N., Manueke, J., Tarore, D. 2014. Jenis dan Kepadatan Populasi Serangga Pada Pertanaman Padi Sawah Fase Vegetatif di Desa Talawaan Kecamatan Talawaan Kabupaten Minahasa Utara. Jurnal Eugenia Vol 19. No. 3.hal 1-9.

Widiarta, I. N., Wijaya, E. S., Sawada, H. Dinamika Populasi Wereng Punggung Putih *Sogatella furcifera* Stal (Hemiptera: Delphacidae) di Jawa Tengah. Journal Entomil Indonesia Vol. 3. No. 1: 1-13.

War, A. R., Paulraj, M. G., Ahmad, T., Buhroo, A. A., Hussain, B., Ignacimuthu, S., Sharma, H. C. 2012. Mechanisms of Plant Defence Against Insect Herbivores. Journal Plant Signal Behav. &(10): 1306-1320.

War, A. R., Paulraj, M. G., War, M. Y., Ignacimuthu, S. Jasmonic Acid-Mediated-Induced Resistance in Groundnut (*Arachis hypogaea* L.) Against *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae). Journal of Plant Growth Regulation 30(4): 512-523.

War, A. R., Paulraj, M. G., War, M. Y., Ignacimuthu, S. 2011. Herbivore and Elicitor Induced Resistance in Groundnut to Asian Armyworm, *Spodoptera litura* (Fab.) (Lepidoptera: Noctuidae). Journal Plant Signaling and Behavior 6(11): 1769-1777.

Warsito, S. D. 2013. Pengaruh Pemberian Zeolit Terhadap Keberadaan Wereng Batang Coklat Pada beberapa Varietas Padi. Skripsi Program Studi Agroteknologi Fakultas Pertanian Universitas Sebelas Maret Surakarta.

Win, S. S., Muhamad, R., Ahmad, Z. A. M., Adam, N. A. Population Fluctuation of Brown Plant Hopper *Nilaparvata lugens* Stal. And White Backed Plant Hopper *Sogatella furcifera* Horvath on Rice. Journal of Entomology Vol. 8. No. 2. hal 183-190.

Win, S. S., Muhamad, R., Ahmad, Z. A. M., Adam, N. A. 2011. Life Table and Population Parameters of *Nilaparvata lugens* Stal. (Homoptera: Delphacidae) on Rice. Journal Tropical Life Sciences Research Vol 22. No. 1, hal. 25-35.

Winarno, T. 2014. 30% Lahan Padi Nasional Terserang Wereng Batang Coklat. On line http://industri.bisnis.com/read/20140406/99/217381/30-lahan-padi-nasional-terserang-wereng-batang-coklat. diakses pada tanggal 22 Januari 2016

Wu, G. R., Yu, X. P., Tao, L. Y. Ren. Z. J. 1994. Wing Dimorphism and Mirgration in the Brown Planthopper, *Nilaparvata lugens* Stal. Kluwer Academic Publishers : Netherlands. hal 263-275.

Xue, J., Zhang, X. Q., Xu, H. J., Fan, H. W., Huang, H. J., Ma, X. F., Wang, C. Y., Chen, J. G., Chen, J. A., Zhang, C. X. 2013. Molecular Characterization OF the Flightin Gene In The Wing-Dimorphic Planthopper, *Nilaparvata lugens,* and Its Evolution In Pancrustacea. Insect Biochemistry and Molecular Biology Vol 43. hal 433-443.

Yin. L. K., Bang, H. D., Zhou, L. F., Man, L., Yi, L. S., Jing, Z., Ping H. Y., Xia, H. H. 2015. Wing Patterning Genes of *Nilaparvata lugens* Identification by Transcriptome Analysis, And Their Differential Expression Profile In Wing Pads Between Brachipterous And Macropterous Morphs. Journal of Integrative Agriculture Vol. 14. No. 9. hal 1796-1807

Yusianto, R., Talitha, T. 2015. Pengembangan Alat Pengendali Hama Wereng Coklat Otomatis Dengan Motion Sensor. Seminar Nasional IENACO ISSN 2337-4349. hal 108-115

Zahara, F. 2002. Tanggap Wereng Batang Coklat *Nilaparvata lugens* Stall (Homoptera: Delphacidae) Terhadap Mikroba Bio-Tani di Rumah Kasa. Laporan Penelitian. Fakultas Pertanian Universitas Sumatera Utara. hal 1-13.

Zhu, M. Song, Y. H., Uhm, K. B., Turner, R. W., Lee, J. H., Roderick, G. K. 2000. Simulation of the Long Range Migration of Brown Planthopper, *Nilaparvata lugens* (Stal), by Using Boundary Layer Atmospheric Model and the Geographic Information System. Journal of Asia-Pacific Entomology 3(1): 25-32. DOi 10/1016/S1226-8615(08)60051-5.