

## DAFTAR PUSTAKA

- Ahmad, I., G. P. Waldbauer., dan S. Friedman. 1993. Maxillectomy does not disrupt self-selection by larvae *Manduca sexta* (Lepidoptera: Sphingidae). *Annals of the Entomological Society of America* 86: 458-463.
- Ahmad, I., S. Hariyadi dan T. Anggaraeni. 2001. Nutrient self selection by the armyworm, *Spodoptera exempta* WALKER (Lepidoptera: Noctuidae) larvae. *Pakistan Journal of Biological Sciences* 4: 684-687.
- Amaldoss, G and , N.C. Hsue. 1989. The biology and the reproductive morphology of beet army worm *Spodoptera exigua* (Lepidoptera: Noctuidae). *Chinese Journal Entomology* 9 : 239-250.
- Anggarwulan, E., N. Etikawati., A. D. Setyawan. Karyotipe kromosom pada tanaman bawang budidaya (Genus *Allium*; Familia Amaryllidaceae). *BioSmart* 1: 13-19.
- Anonim. 2010. Amaranthus. Department of Agriculture, Forestry and Fisheries.
- Anonim. 2015. Pigweeds. <[http://www.oisat.org/pests/weeds/broad\\_leaf\\_weeds/pigweeds.html](http://www.oisat.org/pests/weeds/broad_leaf_weeds/pigweeds.html)> Diakses pada 27 Desember 2015.
- Anonim. 2013. Ancaman Serangan Ulat Grayak *Spodoptera litura* Fabricius Terhadap Produktivitas Kedelai. <<http://pangan.litbang.pertanian.go.id/berita-630-ancaman-serangan-ulat-grayak-spodoptera-litura-fabricius-terhadap-produktivitas-kedelai-.html>> Diakses pada 16 juni 2016.
- Azidah, A. A. and M. S. Azirun. 2006. Some aspects on oviposition behaviour of *Spodoptera exigua* (Hubner) (Lepidoptera : Noctuidae). *Journal of Entomology* 3: 241-247.
- Backer, C. A. dan R. C. Bakhuizen van den Brink. 1968. Flora of java. Volume III. Groningen: Wolters Noordhoff.
- Badan Pusat Statistika. 2015. Produksi Cabai Besar 1,075 Juta Ton, Cabai Rawit 0,8 Juta Ton, dan Bawang Merah 1,234 Juta Ton. <<http://www.bps.go.id/brs/view/id/1168>>. Diakses pada 29 Desember 2015.
- Borror, D. J., Carles., Triplehorn., and N. F. Johnson 1992. Pengenalan pelajaran serangga, alih bahasa: Partosoedjono. Edisi ke Enam. Gadjah Mada University Press. Yogyakarta.
- Christine, M., J. G. Robert. M. R. Steven. 2009. Antennal circadian clocks coordinate sun compass orientation in migratory Monarch butterflies. *Science* 325: 1700-1704.
- Dethier, V. G. 1970. Chemical interaction between plants and insects. In *Chemical Ecology*, E. Sondheimer and J. B. Simeone, (eds). Academic Press. New York.

- Farahani, S., B. Naseri, and A. A Talebi. 2011. Life cycle and fecundity of *Spodoptera exigua* (Lep : Noctuidae) on five soybean varieties. *Journal of Entomological Society of Iran* 30: 1-12.
- French, R. A., 1969, Migration of *Laphygma exigua* to the British Isles in relation to large-scale weather system. *Journal of Animal Ecology* 38: 199-210.
- Feng, H. Q., K. M. Wu., D. F. Cheng., Y.Y. Guo. 2003. Radar observation of the autumn migration of the beet armyworm, *Spodoptera exigua*, and other moths in northern China. *Bulletin of Entomological Research* 93: 115-124.
- Greenberg, S. M., T.W. Sappington., B.C. Legaspi., T.X. Liu., and M. Setamou. 2001. Feeding and life history of *Spodoptera exigua* (Lepidoptera : Noctuidae) on different host plants. *Annual of the Entomological Society of America* 94 : 566-575.
- Greenberg, S. M., T. W. Sappington., and T.X. Liu. 2002. Beet armyworm (Lepidoptera: Noctuidae) host plant preferences for oviposition. *Environmental Entomology* 31: 142-148.
- Hariani, S., Intan, A., Resti, R. 2011. Efisiensi makan *Spodoptera exigua* (Lepidoptera: Noctuidae) pada bawang daun, sawi hijau dan seledri di laboratorium. *Jurnal Natur Indonesia* 14 : 86-89
- Harpenas, A dan R. Dermawan. 2010. *Budidaya cabai unggul*. PT Niaga Swadaya. Jakarta.
- Herms, D.A., Mattson, W. J. 1992. The dilemma of plants: to grow or to defend. *Quarterly Review of Biology*, 67:283-335.
- Hill, D.S. 2008. *Pest of crops in warmer climates and their control*. Springer Science & Business Media.
- Hyatt, M. 1993. The use of sky polarization for migratory orientation by monarch butterflies. Ph. D. Dissertation, University of Pittsburgh, Pennsylvania.
- Kalshoven, L. G. E. 1981. *Pest of crops in Indonesia*. PT. Ichtar Baru-Van Hoeve. Jakarta.
- Kimura, S., 1991, Immigration of the beet armyworm, *Spodoptera exigua* Hübner, to northern coastal area of Akita Prefecture, 1990, in relation to atmospheric conditions. *Annual Report of the Society of Plant Protection of North Japan* 42: 148-151.
- Rahman, M. A. H. M and M. I. A. Gulshana. 2014. Taxonomy and medicinal uses on Amaranthaceae Family of Rajshahi, Bangladesh. *Applied Ecology and Environmental Sciences* 2: 54-59
- Matthews, R and J. R Matthews. 1978. *Insect Behavior*. A Wiley Interscience Publication, New York.

- McNeil, S., T. R. E, Southwood. 1978. The role of nitrogen in the development of insect/plant relationship. In Wallace JW, Marshall RL. Biochemical aspects of plant and animal coevolution. Academic Press, New York.
- Metclaf, C. I and W. P. Flint. 1982. Destructive and useful insect their habits and control. Mc.Graw. Hill Book Company. Inc New Delhi.
- Mikkola, K., 1970, The interpretation of long-range migrations of *Spodoptera exigua*. Journal of Animal Ecology 39: 593-598.
- Moekasan, T.K., R. S, Basuki dan L. Prabaningrum. 2012. Penerapan ambang pengendalian organisme pengganggu tumbuhan pada budidaya bawang merah dalam upaya mengurangi penggunaan pestisida. Jurnal Hortikultura 22: 47-56.
- Moekasan, T. 1994. Pengujian ambang pengendalian hama *Spodoptera exigua* berdasarkan umur tanaman dan intensitas kerusakan tanaman bawang merah di dataran rendah. Balai Penelitian Hortikultura Lembang 153-167.
- Moekasan, TK., W. Setiawati., F. Hasan., R. Runa dan A. Somantri. 2013. Penetapan ambang pengendalian *Spodoptera exigua* pada tanaman bawang merah menggunakan feromonoid seks. Jurnal Hortikultura 23: 90-90.
- Moenandir, J. 1990. Persaingan tanaman budidaya dengan gulma. CV Rajawali. Jakarta.
- Negara, A. 2003. Penggunaan analisis probit untuk pendugaan tingkat kepekaan populasi *Spodoptera exigua* terhadap deltametrin di Daerah Istimewa Yogyakarta. Informatika Pertanian 12: 1-9.
- Oliviera, E. G., R. Dudley., R. B. Srygley. 1996. Evidence for the use of a solar compass by neotropical migratory butterflies. Bulletin of the Ecological Society of America 75: 332.
- Pérez, S. M., O. R. Taylor., and R. Jander. 1999. The effect of a strong magnetic field on monarch butterfly (*Danaus plexippus*) migratory behavior. Naturwissenschaften 86: 140-143.
- Putri, V.A., Jasmi dan E. Safitri. 2013. Kepadatan Populasi Ulat Penggerek Tongkol (*Helicoverpa armigera* Hubner) pada Tanaman Jagung di Kelurahan Pisang Kecamatan Pauh Padang. <http://download.portalgaruda.org/article.php?article=263945&val=6308&titl>. Diakses pada 16 juni 2016.
- Rauf, A. 1999. Dinamika populasi *Spodoptera exigua* (Hubn.) (Lepidoptera, Noctuidae) pada pertanaman bawang merah di dataran rendah. Buletin Hama dan Penyakit Tumbuhan 2: 39-47.
- Rudiana Y. 1995. Statistik demografi *Spodoptera exigua* Hubner (Lepidoptera: Noctuidae) pada tanaman bawang (*Allium* sp). Jurusan Hama dan Penyakit Tumbuhan. Fakultas Pertanian. Institut Pertanian Bogor.

- Samharianto. 1990. Biologi Ulat Grayak (*Spodoptera litura* F) pada beberapa varietas tanaman kedelai di Kalimantan Selatan. Laporan Penelitian Fakultas Pertanian Universitas Lambung Mangkurat. Banjarbaru.
- Scriber, J.M. & F. Jr. Slansky. 1981. The nutritional ecology of immature insect. Annual Review of Entomology 26: 183-211.
- Setiadi. 2006. Bertanam cabai. Penebar Swadaya. Jakarta
- Sherwood, M. And S. Elliott. 2006. Major pests of escallion (*Allium fistulosum*) in Jamaica. Entomology Circular. November : 1-4.
- Singh, O.P., and S. B. B. Parihar. 1988. Effect of different hosts on the development of *Heliothis armigera*. Bulletin of Entomological Research 29 : 2168-2172.
- Slansky, F. 1992. Allelochemical-nutrient interactions in herbivore nutritional ecology. In: Rosenthal, G. A., Berenbaum, M. R., (Eds). Herbivores: Their Interaction with Secondary Plant Metabolites Academic, New York.
- Sunarni, N., dan A. Muharam. 2005. Budidaya tanaman cabai merah. Panduan Teknis PTT Cabai Merah No.2. Balai Penelitian Tanaman Sayuran.
- Tanjung, H.R. 2010. Pemanfaatan feromon untuk pemantauan dinamika populasi *Spodoptera exigua* di Kabupaten Bantul. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Tjahjadi, N. 1991. Bertanam cabai. Penerbit Kanisius. Yogyakarta.
- Tjitrosoedirjo, S. I. S., U. Hidayat., dan W. Joedjono. 2010. Pengolahan gulma di lahan perkebunan. PT. Gramedia. Jakarta
- Untung, K. 2004. Bahan ajar kuliah dasar – dasar ilmu hama tanaman. Jurusan Hama dan Penyakit Tumbuhan. Fakultas Pertanian UGM. Yogyakarta
- Warsino dan K. Dahana. 2010. Peluang usaha dan budidaya cabai. PT Gramedia Pustaka Utama. Jakarta.
- Yuliana, D. jasmii, dan E. Safitri. 2013. Kepadatan populasi *Spodoptera exigua* (Lepidoptera: Noctuidae) pada bawang merah di Kampung Batu Kecamatan Danau kembar Kabupaten Solok. <<http://ejournal-s1.stkip-pgri-sumbar.ac.id/index.php/biologi/article/view/1086>>. Diakses pada 27 Desember 2015.
- Zheng, X. L., X. P. Cong., X. p. Wang., C. L. Lei. A Review of geographic distribution, overwintering and migration in *Spodoptera exigua* Hubner (Lepidoptera: Noctuidae). Journal Entomology 13: 39-48.