UNIVERSITAS
GADJAH MADA
TANGGAPAN TANAMAN TOMAT SAMBUNG DENGAN BATANG BAWAH VARIETAS H-7996, AMELIA, DAN MAWAR TERHADAP PENYAKIT LAYU FUSARIUM
ANISA AULIA RAHMA, Dr. Suryanti, S.P., M.P., Prof. Dr. Ir. Triwidodo Arwiyanto, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Abushita, A.A., E.A. Hebshi, H.G. Danood, and P.A. Biacs. 1997. Determination of antioxidant vitamins in tomatoes. Food Chemistry 60 : 207-212.

Adiyoga, W., R. Suherman, T.A. Soetiarso, B. Jaya, B.K. Udiarto, R. Rosliani & D. Mussadad. 2004. Profik Komoditas Tomat. Pusat Penelitian dan Pengembangan Hortikultura. Badan Pengembangan Pertanian. Departemen Pertanian. Jakarta.

Agrios, G.N. 2005. Plant Pathology 5th ed. Elsevier Academic Press, California.

Ahmad, A., P. Mukherjee, D. Mandal, S. Senapati, M.I. Khan, R. Kumar, M. Sastry. 2003. Extracellular biosynthesis of silver nanoparticles using the fungus *Fusarium oxysporum.* Colloids and Surfaces B 28(4) : 313-318.

Ambar, A.A. 2010. Tanggapan Tomat Varietas Tahan dan Rentan terhadap Fusarat dan *Fusarium oxysporum* f.sp. *lycopersici.* Fakultas Pertanian Universitas Gadjah Mada. Disertasi.

Ambarwati, E., R.H. Murti, Y.A. Rahman, dan R.P. Hastari, 2015. Daya simpan dan mutu buah tomat galur mutan harapan yang dibudidayakan di dua ketinggian tempat berbeda. Agrivet 19 : 36-45.

Andrews, P.K. and C.S. Marquez. 1993. Graft Incompatibility. Horticulture Review 15 : 183-232.

Anonim. 2016a. Produksi Tanaman Hortikultura (Dinamis). <https://www.bps.go.id/site/resultTab>. Diakses pada tanggal 17 Oktober 2016.

_____. 2016b. Badan Pusat Statistik dan Direktorat Jenderal Hortikultura. 2016. Luas Panen Pertanaman Tomat di Berbagai Provinsi di Indonesia. <http://www.pertanian.go.id/Data5tahun/pdf-HORTI2016/1.1-LPanen%20Tomat.pdf>. Diakses pada tanggal 17 Oktober 2016.

_____. 2017a. Deskripsi Tomat Varietas Servo. <http://varitas.net/dbvarietas/varimage/Tomat%20Servo.pdf >. Diakses pada tanggal 30 November 2017.

_____. 2017b. Suhu Rata-Rata Daerah Bojong. <https://id.climate-data.org/location/596413/>. Diakses pada tanggal 14 November 2017.

Apriani, L., D.N. Suprapta, I.G.R.M. Temaja. 2014. Uji efektifitas fungisida alami dan sintesis dalam mengendalikan penyakit layu fusarium pada tanaman tomat yang disebabkan oleh *Fusarium oxysporum* f.sp *lycopersici*. E-Jurnal. Agroekoteknologi Tropika Vol. 3, No.3, Juli 2014.

Arwiyanto, T. 2014. *Ralstonia solanaceraum* : Biologi Penyakit yang Ditimbulkan dan Pengelolaannya. Universitas Gadjah Mada Press, Yogyakarta.

UNIVERSITAS GADJAH MADA
TANGGAPAN TANAMAN TOMAT SAMBUNG DENGAN BATANG BAWAH VARIETAS H-7996, AMELIA, DAN MAWAR TERHADAP PENYAKIT LAYU FUSARIUM
ANISA AULIA RAHMA, Dr. Suryanti, S.P., M.P., Prof. Dr. Ir. Triwidodo Arwiyanto, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Arwiyanto, T., S. D. Nurcahyanti., D. Indradewa., and J. Widada. 2015. Grafting comercial tomato cultivars with H-7996 and EG-203 to supress bacterial wilt (*Ralstonia solanacearum*) in Indonesia. Journal Acta Hortikultura 1069 : 173-177.

Ashari, S. 1995. Hortikultura Aspek Budaya. Universitas Indonesia Press. Jakarta.

Ben-Yephet, Y., Reuven, M., & Genizi, A. 1994. Effect inoculums depth and density on Fusarium wilt in carnations. Phytopathology, no. 84. Pp. 1393-98.

Black, L. 2003. Grafting Tomatoes For Production in the Hot-Wet Season. International Cooperators Guide. Asean Vegetable Research and Development Centre. Pub 03-551, May.

Black, L.L., D.L. Wu., J.F. Wang., T. Kalb., D. Abbas., and J.H. Chen. 2003. International Cooperators Guide. Grafting Tomatoes for Production in the Hot-Wet Season. ARDC pub 03-551.

Borrero, C., M.I. Trillas, J. Ordovás, J.C. Tello, and M. Avilés. 2004. Predictive factors for the suppression of fusarium wilt of tomato in plant growth medium. Phytopathology 94(10) : 1094-1101.

Cahyaningrum, H., N. Prihatiningsih, dan Soedarmono. 2017. Intensitas dan luas serangan beberapa isolat *Fusarium oxysporum* f.sp *zingiberi* pada jahe gajah. Jurnal Perlindungan Tanaman Indonesia Vo. 3, No. 1 : 16-22.

Caliman, F.B.R., D.J. Henriquez da Silva, P.C. Stringheta, P.C.R. Fontes, G.R. Moreira, E.C. Mantovani. 2010. Quality of tomatoes grown under a protected environment and field conditions. IDESIA 28 : 75-82.

Chempakam, B. 1983. Distribution of ascorbic acid oxidase activity in the developing cashew apple (*Anacardium occidentale* L.) J. Hort. Sci. 58:447-448.

Chin, C.T, F.H. Ting., & C.C. Yih. 1996. Vegetable disease incited by *Rhizoctonia* spp., Di dalam: Sneh B, Jabaji-Hare S, Neate SDijst G, editor. *Rhizoctonia Species*: *Taxonomy, Molecular Biology, Ecology, Pathology and Disease Control*. Netherlands (NL):Kluwer. hlm. 369–377.

Dussi, M.C., G. Giardina, D. Sosa, R. González Junyent, A. Zecca, P. Reeb. 2005. Shade nets effect on canopy light distribution and quality of fruit and spur leaf on apple cv. Fuji. Span J. Agr Research. 3:253-260.

Elmer, W.H. & Lacy, M.L. 1987. Effects of inoculums densities of *Fusarium oxysporum* f.sp. *apii* in organic soil on disease expression in celery. Plant Disease, no. 71, pp. 1086-1089.

Gautier, H., V. Diakou-Verdin, C. Benard, M. Reich, M. Buret, E. Bourgaud, J.L. Possel, C. Caris-Veyrat, and M. Genar. 2008. How does tomato quality (sugar, adic, and nutritional quality) very with ripening stage, temperature, and irradiance? Journal Agriculture Food Chemicalistry 56 : 1241-1250.

UNIVERSITAS GADJAH MADA
TANGGAPAN TANAMAN TOMAT SAMBUNG DENGAN BATANG BAWAH VARIETAS H-7996, AMELIA, DAN MAWAR TERHADAP PENYAKIT LAYU FUSARIUM
ANISA AULIA RAHMA, Dr. Suryanti, S.P., M.P., Prof. Dr. Ir. Triwidodo Arwiyanto, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Gioia, F.D., F. Serio, D. Buttaro, O. Ayala, & D. Santamaria. 2010. Influence of rootstock on vegetative growth, fruit yield and quality ini "Cuore di Bue" an heirloom tomato. Journal of Horticultural Science & Biotechnology 85 : 477-482.

Goffreda, J.C., E.J. Szykowiak, I.M. Sussex, and M.A. Mutshler. 1990. Chimeric tomato plants show aphid resistence and triacyglucose production are epidermal autonomous characters. Journal of the Plants Cell 2 : 643-649.

Grierron, D. and A.A. Kader. 1986. Fruit Ripening and Quality. In : Atherton, J.G. and J. Rudich (eds). The Tomato Crop : A Scientific Basic for Improvement. Chapman and Hall, London.

Hanson, P., J.T. Chen., C.G. Kuo., R. Morris., & R.T. Opena. 2000. Suggested cultural practices for tomato. International Cooperator Guides. Oct, pp. 1-8.

Harris, D.C. 2000. Quantitative Chemical Analysis 5th Ed. W.H. Freeman and Company, New York, USA.

Ilic, Z.S., L. Milenkovic, L. Sunic, L. Stanojevic, M.B. Solarov, D. Marinković. 2012. Tomato fruits quality as affected by light intensity using color shade nets. Page 414-418. Proceedings. 47th Croatian and 7th International Symposium on Agriculture. Croatia.

Khah, E.M., E. Kakava, A. Mavromatis, D. Chachalis, & C. Goulas. 2006. Effect of grafting on growth and yield of tomato (*Lycopersicon esculentum* Mill.) in greenhouse and open field. Journal of Applied Horticulture 8 : 3-7.

Latifah, E., E. Korlina., K. Boga., & J. Maryono. 2013. Grafting technology for sustainable improvement of tomato production a field study in Kediri, East Java. Proceeding International Conference. The 4th Green Technology Faculty of Science and Technology. Islamic of Universuty State Maulana Malik Ibrahim Malang.

Laeshita, P. 2017. Pengelolaan Penyakit Layu Bakteri *(Ralstonia solanacearum)* dan Nematoda Puru Akar *(Meloidogyne incognita)* pada Tomat dengan Penyambungan Batang Bawah Tahan. Fakultas Pertanian. Universitas Gadjah Mada. Tesis.

Louws, F.J., C.L. Rivarda, & C. Kubota. 2010. Grafting fruiting vegetables to many soilborne pathogens, foliar pathogens, arthropods, and weeds. Scientia Horticulture 127 : 127-146.

Lu, S., T. Li, and J. Jiang. 2010. Effects of salinity on sucrose metabolism during tomato fruit development. African Journal of Biotechnology 9 : 842-849.

Lukas, G.B., C.L. Campbell., L.T. Lucas. 1985. Introduction to Plant Disease Identification and Management. Avi Book. New York, 313 hlm.

UNIVERSITAS
GADJAH MADA
TANGGAPAN TANAMAN TOMAT SAMBUNG DENGAN BATANG BAWAH VARIETAS H-7996, AMELIA, DAN MAWAR TERHADAP PENYAKIT LAYU FUSARIUM
ANISA AULIA RAHMA, Dr. Suryanti, S.P., M.P., Prof. Dr. Ir. Triwidodo Arwiyanto, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Mahardhika, B. 2016. Pengendalian Layu Bakteri (*Ralstonia solanacearum*) dan Nematoda uru Akar (*Meloidogyne incognita*) pada Tomat dengan Penyambungan dan Aplikasi *Pseudomonas putida* strain Pf-20. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.

Martinez-Balesta, M.C., C. Alcaraz-Lopez, B. Muries, C. Mota-cadenas, & M. Carvajal. 2010. Physiological aspect of rootstock-scion interactions. Scientia Gorticulture 127 : 112-118.

Masithoh, R. E, B. Rahardjo, L. Sutiarso, A. Hardjoko. 2011. Pengembangan computer vision system sederhana untuk menentukan kualitas tomat. Agritech Vol. 31, No. 2.

Massot, C.M., M. Genard, R. Stevens, and H. Gautier. 2010. Fluctuations in sugar content are not determinant in explaining variations in vitamin C in tomato fruit. Plant Physiology and Biochemistry 48 : 751-757.

Matthew D.K and N. R. Bumgarner. 2012. Using ^{o}Brix as an Indicator of Vegetable Quality. The Ohio State University, Ohio.

Mehrota, R.S. 1983. Plant Pathology. Tata Mc. Graw-Hill Publishing, New York.

Murti, R.H. 2012. Mutu Buah Tomat Dua Galur Harapan Keterunan "GM13" dengan "Gondol Putih". Prosiding Seminar Nasional Hasil Penelitian Pertanian. Research Gate.

Na, L., Z. Bao-Li, H. Jing, L. Bo & Z. Wei-min. 2012. Biological characteristic of grafted eggplant on tomato rootstocks. African Journal of Agriculture Research Vol. 7 : 2791-2799.

Nelson, S.C. 2008. Late Blight of Tomato (*Phytopthora infestans*). Cooperative Extension Service Manoa.

Nurcahyati, S.D. 2015. Kajian Pengendalian Penyakit Layu Bakteri *Ralstonia solanacearum* pada Tomat dengan Penyambungan. Fakultas Pertanian. Universitas Gadjah Mada. Disertasi.

Olivain, C. and C. Alabuvette. 1999. Process of tomato root colonization by a pathogenis strain of *Fusarium oxysporum* f.sp *lycopersici* in comparison with a nonpathogenic strain. New Phytologist 141 : 497-510.

Opina, N.I., R.T. Alberto, S.E. Santiago, L.L. Black, S.A. Miller & R.G. Maghirang. 2001. Influence of Cultural Practices, Host Resistence and Grafting on the Incidence of Bacterial Wilt on Eggplant. Oral Paper Presented during the 32nd Pest Management Council og the Philippines Annual Meeting Held at DA-CSAC, Pili, Ca,aranes Sur, May 2001.

Palada, M.C., Y.C. Rean., & L.L. Black. 2012. Rain shelters for tomato production in the hot-wet season. AVRDC, The Worl Vegetable Center, Shanhua, Taiwan.

UNIVERSITAS
GADJAH MADA
TANGGAPAN TANAMAN TOMAT SAMBUNG DENGAN BATANG BAWAH VARIETAS H-7996, AMELIA, DAN MAWAR TERHADAP PENYAKIT LAYU FUSARIUM
ANISA AULIA RAHMA, Dr. Suryanti, S.P., M.P., Prof. Dr. Ir. Triwidodo Arwiyanto, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Poudel, S. R. & W.S. Lee. 2009. Respon of eggplant (*Solanum melongena* L.) as rootstock for tomato (*Solanum lycopersicum* L.). Horticulture 34 : 39-52.

Putri, O.S.D., I.R. Sastrahidayat., S. Djauhari. 2014. Pengaruh metode inokulasi jamur *Fusarium oxysporum* f.sp *lycopersici* (Sacc.) terhadap kejadian penyakit layu Fusarium pada tanaman tomat (*Lycopersicon esculentum* Mill.). Jurnal HPT Vol. 2 (3).

Rivai, F., 2005. Dasar-dasar Epidemiologi Penyakit Tumbuhan. Yayasan Perguruan Tinggi Komputer Upi Press. Padang.

Rivard, C.S & F.J. Louws. 2008. Grafting to manage soilborne disease in heirloom tomato production. Journal Horticultura Science 43 : 2104-2111.

Rivero, R. M., Ruiz & L. Romer. 2003. Role Of Grafting In Horticultural Plants Under Stress Conditions. Food Agriculture Environment.

Rosanti, K.T., I.R. Sastrahidayat., A.L. Abadi. 2014. Pengaruh jenis air terhadap perkecambahan spora jamur *Colletotrichum capsici* pada cabai dan *Fusarium oxysporum* f.sp *lycopersici* pada tomat. Jurnal HPT Vol. 2 (3).

Rosmahani, L., E. Korlina, M. Soleh, and D. Setyorini. 2002. Pengkajian pemanfaatan biopestisida dan pupuk hayati mendukung pengelolaan tanaman terpadu pada tanaman tomat. *Prosiding Seminar dan Ekspose Teknologi Hasil Pengkajian BPTP Jawa Timur*, Malang 9-10 Juli 2002. Hal. 327-335.

Rubatzky, V.E. & M. Yamaguchi. 1999. World Vegetables: Principles, Production and Nutritive Values (Sayuran Dunia: Prinsip, Produksi dan Gizi, Alih Bahasa C. Herison).

Sadler, G.D. and P.A. Murphy. 1998. pH and Titrable Acidity, Food Analysis 2nd Edition. Plenum Publisher, Klumer Academic, USA.

Salisburry, F.B. & C.W. Ross. 1998. Fisiologi Tumbuhan Jilid 2. ITB Press, Bandung.

Semangun, H. 2001. Pengantar Ilmu Penyakit Tumbuhan. Gadjah Mada University Press, Yogyakarta.

_____. 2007. Penyakit-penyakit Tanaman Hortikultura di Indonesia. Gadjah Mada University Press. Yogyakarta.

Siahaan, P. 2012. Pengaruh ekstrak urang aring (*Eclipta alba* L. Hask.) terhadap pertumbuhan jamur *Fusarium oxysporum* f.sp *lycopersici* (Sacc.) Snyder & Hans. Jurnal Bioslogos, Vol. 2, Nomor 1.

Smith, H. 1994. Molecular biology of plant cells. Blackwell Scientific Publication, Oxford.

UNIVERSITAS GADJAH MADA
TANGGAPAN TANAMAN TOMAT SAMBUNG DENGAN BATANG BAWAH VARIETAS H-7996, AMELIA, DAN MAWAR TERHADAP PENYAKIT LAYU FUSARIUM
ANISA AULIA RAHMA, Dr. Suryanti, S.P., M.P., Prof. Dr. Ir. Triwidodo Arwiyanto, M.Sc.
Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Sudarmadji, S., B. Haryono & B. Suhardi. 1976. Prosedur Analisa untuk Bahan Makanan dan Pertanian, Bagian Pengolahan Hasil Pertanian. Fakultas Teknologi Pertanian Universitas Gadjah Mada, Yogyakarta.

Sugito, A., H.A. Djatmiko, dan L. Soesanto. 2010. Penekanan nabati pada tanah tanaman tomat terkontaminasi *Fusarium oxysporum* f.sp *lycopersici*. Jurnal Ilmu Ilmu Pertanian Indonesia 12(1) : 13-18.

Sumeru, A. 2006. Hortikultura Aspek Budidaya. Universitas Indonesia Press. Jakarta.

Sutejo, A.M., A. Priyatmojo, dan A. Wibowo. 2008. Identifikasi morfologi beberapa spesies jamur fusarium. Jurnal Perlindungan Tanaman Indonesia, Vol. 14, No. 1 : 7-13.

Van der Plank, J.C. 1963. Plant Disease Epidemics and Control. Academic Press, New York.

Vasse, J., Danoun, and A. Trigalet. 2005. Microscopic Studies of Root Infection in Resistant Tomato Cultivar Hawaii 7996. Bacterial Wilt Disease and The *Ralstonia solanacearum* Species Complex. APS Press. The American Phytopathological Society St. Paul, Minnesota, USA.

Wibowo, A. 2005. Kemampuan strain bakteri antagonis terhadap fusarium penyebab layu pada tomat dalam kolonisasi perakaran tomat. Jurnal Perlindungan Tanaman Indonesia. 11 (2).

Will, R.H. T.H. Lee, D. Graham, mc. Gkasson, W.B. Hall. 1981. Postharvets An Introduction to The Physiology and Handling of Fruits and Vegetables. New South Wales University, Kensington, Australia.

Wong, M.Y. 2003. *Fusarium oxysporum* f.sp *lycopersici* (Sacc.) W.C Synder and H.M. Hans. NC State University. <http://www.cals.ncsu.edu/course/pp728/Fusarium_oxysporum.htm>. Diakses pada tanggal 29 Maret 2017.

Wulandari, D., L. Sulistyowati., & A. Muhibbudin. 2014. Keanekaragama jamur endofit pada tanaman tomat (*Lycopersicon esculentum* Mill.) dan kemampuan antagonisnya terhadap *Phytopthora infestans*. Jurnal HPT 2(1).

Yetisir, H., A.E. Ozdemir, V. Aras, E. Candir, & O. Aslan. 2013. Rootstock effect on plant nutrition concentration in different organ of grafted watermelon. Agricultural Science 4 : 230-237.

Zhao, X & D. Djidonou. 2014. Nitrogen Uptake and Root Distribution of Grafted Under Different Levels of Nitrogen Fertilization. 1st ISHS International Symposium on Vegetable Grafting (ISVG 2014). March 17-21, 2014, Wuhan, China.