

DAFTAR PUSTAKA

- Andriani, A., & Isnaini, M. (2016). Morfologi dan Fase Pertumbuhan Gandum. *Gandum: Peluang Pengembangan di Indonesia*, 69–106.
- Aprizal, A. (2019). *Pertumbuhan dan hasil beberapa varietas gandum (Triticum aestivum L.) di Alahan Panjang Kabupaten Solok*. Universitas Andalas.
- Arshad, M. A., Abbas, R. N., Policarpo Tonelli, F. M., Baloch, R., Ul Haq, M. Z., Ahmad, A., Zulfiqar, U., Djalovic, I., Prasad, P. V. V., & Alshaharni, M. O. (2025). Enhancing wheat yield and quality through optimized weed control timing and seeding density. *Archives of Agronomy and Soil Science*, 71(1), 1–21. <https://doi.org/10.1080/03650340.2025.2570466>
- Asmiat, A., Radian, R., & Astina, A. (2013). Pengaruh Pupuk Phonska Terhadap Pertumbuhan Dan Hasil Padi Inpara 3 Di Tanah Aluvial. *Jurnal Sains Mahasiswa Pertanian Untan*, 2(1).
- Azrai, M., Hamdani, M., Andriani, A., Hasnah, & Yusuf, M. (2014). Gandum Varietas GURI 1 (Guri 1 Wheat Variety). Balai Penelitian Tanaman Serealia.
- Baga, L. M., & Puspita, A. A. D. (2013). Analisis daya saing dan strategi pengembangan agribisnis gandum lokal di Indonesia. *Jurnal Agribisnis Indonesia*, 1(1), 9–26.
- Baillet, N., Gironse, C., Allard, V., Piquet-Pissaloux, A., & Le Gouis, J. (2018). Different grain-filling rates explain grain-weight differences along the wheat ear. *PLoS ONE*, 13(12), 1–15. <https://doi.org/10.1371/journal.pone.0209597>
- Bastos, L. M., Carciochi, W., Lollato, R. P., Jaenisch, B. R., Rezende, C. R., Schwalbert, R., Vara Prasad, P. V., Zhang, G., Fritz, A. K., Foster, C., Wright, Y., Young, S., Bradley, P., & Ciampitti, I. A. (2020). Winter Wheat Yield Response to Plant Density as a Function of Yield Environment and Tillering Potential: A Review and Field Studies. *Frontiers in Plant Science*, 11(March), 1–17. <https://doi.org/10.3389/fpls.2020.00054>
- Beres, B. L., Brûlé-Babel, A. L., Ye, Z., Graf, R. J., Turkington, T. K., Harding, M. W., Kutcher, H. R., & Hooker, D. C. (2018). Exploring Genotype × Environment × Management synergies to manage fusarium head blight in wheat. *Canadian Journal of Plant Pathology*, 40(2), 179–188. <https://doi.org/10.1080/07060661.2018.1445661>
- Badan Pusat Statistik. (2026). Statistik Indonesia (*Statistical yearbook of Indonesia*). Badan Pusat Statistik.

- Chaniago, I., Suliansyah, I., & Hasanah, N. (2019). Weeds found associated with wheat crop at Alahan Panjang, West Sumatra. *IOP Conference Series: Earth and Environmental Science*, 347(1). <https://doi.org/10.1088/1755-1315/347/1/012086>
- Farooq, U., Khan, E. A., Khakwani, A. A., Ahmed, S., Ahmed, N., & Zaman, G. (2016). Impact of sowing time and seeding density on grain yield of wheat variety Gomali-08. *Asian Journal of Agriculture and Biology*, 4(2), 38–44.
- Feng, N., Song, G., Guan, J., Chen, K., Jia, M., Huang, D., Wu, J., Zhang, L., Kong, X., Geng, S., Liu, J., Li, A., & Mao, L. (2017). Transcriptome profiling of wheat inflorescence development from spikelet initiation to floral patterning identified stage-specific regulatory Genes. *Plant Physiology*, 174(3), 1779–1794. <https://doi.org/10.1104/pp.17.00310>
- Feng, X., Huai, Y., Kang, S., Yang, L., Li, Y., Feng, J., Zhang, Z., Maw, M. J. W., Cui, Z., & Ning, P. (2024). Reproductive resilience of growth and nitrogen uptake underpins yield improvement in winter wheat with forced delay of sowing. *Science of the Total Environment*, 949(July), 175108. <https://doi.org/10.1016/j.scitotenv.2024.175108>
- Gudeta, M., Tesso, B., & Geleta, N. (2025). Genetic variation, genotypic and phenotypic correlation, heritability, and path coefficient analysis of yield and yield-related traits in bread wheat (*Triticum aestivum* L.) varieties at Gitilo Dale, Western Ethiopia. *Agrosystems, Geosciences and Environment*, 8(2), 1–13. <https://doi.org/10.1002/agg2.70115>
- Gupta, A. (2022). Effect of Seed Rate on Yield of Wheat (*Triticum aestivum*) under Front Line Demonstrations in Poonch. *Asian Journal of Agricultural Extension, Economics & Sociology*, 40(10), 795–797. <https://doi.org/10.9734/ajaees/2022/v40i1031144>
- Handoko, I. (2007). Relationship between crop developmental phases and air temperature and its effect on yield of the wheat crop (*Triticum aestivum* L.) grown in Java Island, Indonesia. In *Biotropia* (Vol. 14, Nomor 1, hal. 51–61). <https://doi.org/10.11598/btb.2007.14.1.24>
- Herdhani, M. (2024). *Keragaman karakter agronomi galur-galur gandum (Triticum aestivum) pada dua agroekosistem di Indonesia*. Institut Pertanian Bogor.
- Holman, J. D., Haag, L. A., Schlegel, A. J., & Assefa, Y. (2021). Yield components of dryland winter wheat genotypes and response to seeding rate. *Agronomy Journal*, 113(2), 1776–1791. <https://doi.org/10.1002/agj2.20607>
- Khazratkulova, S., Sharma, R. C., Amanov, A., Ziyadullaev, Z., Amanov, O., Alikulov, S., Ziyaev, Z., & Muzafarova, D. (2015). Genotype × environment interaction and stability of grain yield and selected quality

- traits in winter wheat in Central Asia. *Turkish Journal of Agriculture and Forestry*, 39(6), 920–929. <https://doi.org/10.3906/tar-1501-24>
- Lin, T., Wang, B., Wang, S., Haider, F. U., Zhang, P., & Li, X. (2026). Integrated physiological, hormonal, and metabolic mechanisms regulating wheat yield quality under combined drought and heat stress. *Plant Stress*, 20(March 2025), 101257. <https://doi.org/10.1016/j.stress.2026.101257>
- Lindsey, L. E., Goodwin, A. W., Harrison, S. K., & Paul, P. A. (2020). Optimum seeding rate and stand assessment of soft red winter wheat. *Agronomy Journal*, 112(5), 4069–4075. <https://doi.org/10.1002/agj2.20303>
- Lollato, R. P., Giordano, N., & Gastaldi, J. (2025). *Kansas Agricultural Experiment Station Research Reports Wheat Grain Yield Response to Seeding Rate in 2023-2024 Wheat Grain Yield Response to Seeding Rate in 2023-2024*. 11(3).
- Lu, J., Jiang, T., Ge, S., Chang, X., Su, L., Xu, W., Tang, J., Zhai, J., & Ma, Z. (2026). Wide-narrow row planting optimizes source-sink dynamics to sustain high yield and achieve water conservation in drip-irrigated winter wheat. *Field Crops Research*, 343(April), 110497. <https://doi.org/10.1016/j.fcr.2026.110497>
- Luo, J., Wei, B., Han, J., Liao, Y., & Liu, Y. (2019). Spermidine Increases the Sucrose Content in Inferior Grain of Wheat and Thereby Promotes Its Grain Filling. *Frontiers in Plant Science*, 10(November), 1–17. <https://doi.org/10.3389/fpls.2019.01309>
- Nass, H. G., & Reiser, B. (1975). Grain filling period and grain yield relationships in spring wheat. *Canadian Journal of Plant Science*, 55(3), 673–678. <https://doi.org/10.4141/cjps75-107>
- Nasution, K. S. (2015). *Analisis Usahatani Gandum (Triticum spp.) di Kenagarian Alahan Panjang Kecamatan Lembah Gumanti Kabupaten Solok Sumatera Barat*. Universitas Andalas.
- Nasution, M. N. H., Harahap, R. A., & Nur, A. (2019). Adaptasi galur dan varietas gandum (*Triticum aestivum* L.) di dataran medium Padang Sidimpuan Sumatera Utara. *Agrium*, 22(2), 107–110. <https://doi.org/https://doi.org/10.30596/agrium.v22i2.3719>
- Nugroho, S. A. (2022). Analisis Faktor-Faktor Yang Mempengaruhi Impor Gandum di Indonesia (Dari 5 Negara Mitra Impor: Australia, Kanada, Ukraina, Amerika Serikat, dan Federasi Rusia) Tahun 2010-2020. *Jurnal Publikasi Universitas Muhammadiyah Surakarta*, 7. [https://eprints.ums.ac.id/108682/1/Naskah Publikasi.pdf](https://eprints.ums.ac.id/108682/1/Naskah%20Publikasi.pdf)

- Pradeksa, Y., Darwanto, D. H., & Masyhuri, M. (2016). Faktor-Faktor Yang Mempengaruhi Impor Gandum Indonesia. *Agro Ekonomi*, 25(1). <https://doi.org/10.22146/agroekonomi.17381>
- Schmitz, P. K., & Ransom, J. K. (2021). Seeding rate effects on hybrid spring wheat yield, yield components and quality. *Agronomy*, 11(6). <https://doi.org/10.3390/agronomy11061240>
- Shah, W. A., Hayat, Z., Ullah, I., Anwar, S., & Iqbal, B. (2016). Response of different wheat varieties to various seed rates. *Pesquisa Agropecuaria Brasileira*, 5(3), 529–537. <https://doi.org/10.19045/BSPAB.2016.50067>
- Song, K., Hong, S., & Shim, S. (2025). Responses of Photosynthetic Activity in Flag Leaves and Spikes as well as Seed Development of Wheat (*Triticum aestivum* L.) to Artificial Shading. *Agronomy*, 15(11), 1–16. <https://doi.org/10.3390/agronomy15112577>
- Widowati, S., Khumaida, N., Ardie, S. W., & Trikoesoemaningtyas, D. (2016). Karakterisasi Morfologi dan Sifat Kuantitatif Gandum (*Triticum aestivum* L.) di Dataran Menengah. *Jurnal Agronomi Indonesia (Indonesian Journal of Agronomy)*, 44(2), 162. <https://doi.org/10.24831/jai.v44i2.13485>
- Wu, R., Shen, X., Shang, B., Zhao, J., Agathokleous, E., & Feng, Z. (2025). Complexity and interactions of climatic variables affecting winter wheat photosynthesis in the North China Plain. *European Journal of Agronomy*, 166(February), 127568. <https://doi.org/10.1016/j.eja.2025.127568>
- Yadelew, Z., Tadesse, T. M., & Tarekegn, W. (2024). Appropriate seed source and rate enhanced the productivity of bread wheat varieties under irrigated conditions in North Mecha, Amhara region, Ethiopia. *Heliyon*, 10(10), e31568. <https://doi.org/10.1016/j.heliyon.2024.e31568>
- Zubaidi, A., Anugrahwati, D. R., & Yakop, D. U. M. (2019). Pertumbuhan dan Hasil Gandum pada Berbagai Kerapatan Populasi dan Dosis Pemupukan Urea. *Jurnal Agronomi Indonesia (Indonesian Journal of Agronomy)*, 46(3), 262–268. <https://doi.org/10.24831/jai.v46i3.20777>