

DAILY WEATHER DATA FOR ZARIA (MARCH TO DECEMBER, 2015)

MONTH	Rainfall (mm)	Tmin (°C)	Tmax (°C)	RH min (%)	RH max (%)	Solar Rad (MJ/m ² /day)	Wind speed Km/h	Wind direc. (Deg)	Wind gust Km/h
march	12.816	35.702	6.734	43.507	21.618	2.194	272.387	6.489	10.563
april	16.818	33.262	7.492	27.990	22.156	4.383	278.666	10.808	13.955
may	2.306	22.265	35.080	15.986	77.248	21.273	3.831	198.034	10.059
june	17.950	37.637	5.266	32.064	29.583	4.154	282.439	10.497	14.102
July	1.532	22.201	34.348	40.309	90.395	24.625	6.723	154.635	16.054
August	2.223	21.682	31.505	43.216	91.464	22.553	8.152	135.961	17.423
september	3.865	20.722	27.545	61.181	97.021	17.941	5.492	148.349	13.005
October	10.603	20.544	28.769	60.622	98.179	16.651	2.874	163.474	8.086
november	9.657	20.897	30.986	50.641	97.905	22.274	0.702	197.948	4.788
december	1.910	19.368	33.671	19.919	94.566	23.278	0.647	243.748	2.928

REFERENCES

- [1] Agbonifo, O.C. and Olufolaji, D.B. (2012). A fuzzy expert system for diagnosis and treatment of maize plant diseases. *International Journal of Advanced Research in computer Science and Software Engineering* vol 2:1t.Cienc. Rur. 31:1075-1084.
- [2] Aldrich, Samuel, R. Walter O. Scoth, and Robert G. Hoeff. 1986. *Modern Corn production* 3rd edition. A&L publications, Inc., Champaign, IL
- [3] Azam, S.M. Ali, M. Amin, S. Bibi and Arif, M. (2007). Effect of plant population on maize hybrids. *Journal of Agricultural and Biological science* 2(1):13-20.
- [4] Cathcart, R.J. and Swanton, C.J. (2003). Nitrogen management will influence threshold values of green foxtail (*Setaria viridis*) in corn. *Weed Sci.* 51:978-986.s
- [5] Farnham, E. Dale (2001): Row spacing, Plant Density and Moisture. *Agronomy Journal* 93:1049-1053 (2001).
- [6] Jason, A. Roth, Ignacio A. Ciampitti and Tony, J. Vyn. (2013). Physiological Evaluation of Recent Drought-Tolerant Maize Hybrids at Varying Stress Levels *Agronomy Journal* 105: 1129-1141 (2013).
- [7] Kamara, A.Y., Menkir, A., Kureh, I., Lucky O. O., Ekeleme, F. (2006). Performance of old and new maize hybrids grown at high plant densities in the tropical Guinea savanna. *Communications in Biometry and Crop Science* 01/2006;
- [8] Kling, J.G. Berner, D.K. Ibikunle. O.A. (1996). Developing Tropical Maize Cultivars with Reduced Striga Emergence and Host Plant Damage Symptoms Under Artificial Infestation with Striga Hermonthica. Paper Presented at the Fourth General Workshop on the pan African Control Network, Bamako, Mali, October 28th to November 1st, 1996.
- [9] Luque, S.F. Cirilo, A.G. and Otegui, M.E. (2006). Genetic Gains in grain yield and related physiological attributes in Argentine maize hybrid. *Field Crop Res.* 95:383-397.
- [10] Sangakkara, V.R. Bandaranayeka, P.S.R.D. Gajanayeka, J.N. and Stamp, P. (2004). Plant density and grain yield of rainfed maize grown in wet and dry seasons of the tropics; *maydica* 49:83-88.
- [11] Sangoi, L. (2001). Maize plant arrangement: analysis of the state of the art. *Ciência Rural* 31, 1075-1084.
- [12] Sangoi, L., Graicitti, M.A., Rampazzp, C. Biandetti, P. (2002) Responose of Brarilian maize hybrids from different eras to changes in plant density; *field crops research* 79 (2002) 39-51.
- [13] Saberali S F (2007). Influence of plant density and planting pattern of corn on its growth and yield under competition with common Lambesquarters (*Chenopodium album* L.). *Pajouhesh and Sazandegi.* 74: 143-152.
- [14] Schneiner, J.D. Gutierre, Z. Boem, F.H Lavado, R.S. (2000). Root growth and phosphorus uptake in wide-and narrow-row soybeans. *Journal of Plant Nutrition* 23,1241-1249.
- [15] Tajul, M.I. Alam, M.M. Hossain, S.M.M. Naher, K. Rafii, M.Y. and Latif, M.M., (2013). Influence of Plant Population and Nitrogen-Fertilizer at various levels on growth Efficiency of Maize.
- [16] Valadabadi, A.S. and Farahani, H.A. (2010). Effects of Planting Density and Pattern on Physiological Growth Indices in Maize (*Zea Mays*) under Nitrogen Fertilizer Application. *Journal of Agricultural Extension and rural Development*, Vol. 2(3), pp.40-47.