

## REFERENCES

- Allen, R.G., Pereira L.S., Raes, D., and Smith, M. (1998) – "Crop evapotranspiration – Guidelines for computing crop water requirements – FAO irrigation and drainage paper 56", Rome.
- Almedia, C.D.G.C., Botrel T.A., and Smith R.J. (2009) – "Characterization of the microtube emitters used in a novel micro-sprinkler", *Irrigation Science*, Vol. 27, No.3, pp. 209-214.
- Anwar, A. A. (1999) - "Factor G for pipelines with equally spaced multiple outlets and outflow", *Journal of Irrigation and Drainage Engineering*, ASCE, Vol. 125, No. 1, pp. 34–38 (January / February)
- Anwar, A. A. (2000) - "Inlet pressure for horizontal tapered laterals", *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.126, No.1, pp. 57-63 (January/February)
- Bhandarkar, D. M., Reddy, K. S., Kishore, L., and Kumar, N. (2005) – "Estimation of minor losses in drip laterals", *Proceedings of 39th Annual Convention & Symposium of Indian Society of Agricultural Engineers*, Hyderabad, India, March 9-11, Vol.II-C, pp.30 - 41.
- Bhuyar, R.C., Deshmukh, M.M., Hiwase, S.S., Wadatkar S.B., and Wane S.S. (2003) – "Response of summer groundnut to different irrigation methods, *Proceedings of XXXVII Annual Convention of Indian Society of Agricultural Engineers*, Udaipur, India, January 29-31, pp.II-23- II-28
- Chinea, R. R., and Dominguez, A. (2006) – "Total friction loss along multiple outlets pipes with open end", *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.132, No.1, pp. 31 – 40 (January/February)
- Christiansen, J. E (1942), "Irrigation by sprinkling." California Agriculture Experiment Station, Bull. No. 670, University of California, Davis, California

Deshmukh, M. M., Hiwase, S. S., Wadatkar, S. B., Bhuyar, R. C., Bajpayee P. R., and Shedame, B. M. (2004) – “Discharge relationship and lateral length optimization of micro tube trickle irrigation”, XXXVIII Annual Convention & Symposium of Indian Society of Agricultural Engineers, Dapoli, India, January 16-18, pp. II-92 – II-96

Deshmukh, M. M., Hiwase, S. S., Wadatkar, S. B., Bhuyar, R. C., Bajpayee P. R., and Shedame, B. M. (2005) – “Study of hydraulics of micro tube trickle irrigation” 39th Annual Convention & Symposium of Indian Society of Agricultural Engineers, Hyderabad, India, March 9-11, pp.152 - 159.

Gupta, S. P. (2001) – “Statistical Methods”, Sultan Chand & Sons, Educational Publisher, New Delhi, Ch.11, pp. 437.

Gyasi-Agyei, Y. (2007) – “Field-scale assessment of uncertainties in drip irrigation lateral parameters”, Journal of Irrigation and Drainage Engineering, ASCE, Vol. 133, No. 6, pp. 512–519 (November/December)

Hiwase, S.S., Deshmukh, M.M., Bhuyar, R.C., Yamulwad, H.M., and Yadgire, M.V. (2004) – “Semi-portable drip irrigation system – a case study”, XXXVIII Annual Convention & Symposium of Indian Society of Agricultural Engineers, Dapoli, India, January 16-18, pp. II-82 – II-86.

Jain, S. K., Singh, K. K. and Singh, R. P. (2002) – “Micro irrigation lateral design using lateral discharge equation”, Journal of Irrigation and Drainage Engineering, ASCE, Vol.128, No.2, pp. 125 - 128 (March/April)

Jenson, M. C. and Fratini, A. M. (1957) – “Adjusted F factors for sprinkler lateral design”, Agricultural Engineering, 38(4), pp.247 (April)

Juana, L., Rodríguez-Sinobas, L., and Losada, A. (2002a) – “Determining minor head losses in drip irrigation laterals .1: methodology”, Journal of Irrigation and Drainage Engineering, ASCE, Vol.128, No.6, pp. 376 - 384 (Nov./Dec.)

Juana, L., Rodríguez-Sinobas, L., and Losada, A. (2002b) – “Determining minor head losses in drip irrigation laterals. ii: experimental study and validation”,

Journal of Irrigation and Drainage Engineering, ASCE, Vol.128, No.6, pp. 385 - 396 (November/December)

Juana, L., Losada, A., Rodríguez-Sinobas, L., and Sa'nchez, R., (2004) – "Analytical relationships for designing rectangular drip irrigation units", Journal of Irrigation and Drainage Engineering, ASCE, Vol.130, No.1, pp. 47 – 59 (January/February)

Juana, L., Rodríguez-Sinobas, L., Sánchez, R., and Losada, A. (2005) – "Analytical expressions for hydraulic calculation of trapezoidal drip irrigation units", Journal of Irrigation and Drainage Engineering, ASCE, Vol. 131, No. 5, pp. 420 – 432 (September/October)

Kang, Y., and Nishiyama, S. (1996a) - "Analysis and design of micro irrigation laterals", Journal of Irrigation and Drainage Engineering, ASCE, Vol.122, No.2, pp. 75 - 82 (March/April)

Kang, Y., and Nishiyama, S. (1996b) - "Analysis of micro irrigation systems using a lateral discharge equation." Transactions ASAE, 39(3), pp. 921–929.

Kang, Y., and Nishiyama, S. (1996c) - "A simplified method for design of microirrigation laterals", Transactions of ASAE, 39(5), pp. 1681-1688.

Keller, J., and Karmeli, D. (1974) - "Trickle Irrigation Design Parameters " Transaction of . ASAE , 17 , pp.678-684

Kishore, R., Singh, V.V., and Shirsat, N.A. (2005) – "Precision irrigation system-design and performance", 39<sup>th</sup> Annual Convention & Symposium of Indian Society of Agricultural Engineers, Hyderabad, India, March 9-11, pp.98 -106.

Kishor, L., Reddy, K.S., Bhandarkar, D.M., and Sahu, R.K. (2005) – "Studies on hydraulic characteristic of drippers", 39th Annual Convention & Symposium of Indian Society of Agricultural Engineers, Hyderabad, India, March 9-11, pp.132-151.

Mahar, P.S., and Singh, R. P. (2003) – “Computing inlet pressure head of multi outlet pipeline”, *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.129, No.6, pp. 464 - 468 (November/December)

Miller, I., and Freund, J. E. (1985) – “Probability and Statistics for Engineers”. Prentice Hall Inc., Englewood Cliffs, NJ.

Mohan, S., and Sahoo, P. K. (1991) – “Comparative evaluation on methods of friction loss computations”, *Journal of Indian Water Works Association*, pp. 265 - 271, (October/December)

Nakayama, F.S., and Bucks D. A. (1986) – “Trickle Irrigation for Crop Prouction Design, Operation and Management”, Elsevier, Amsterdam, Oxford, New York, Tokyo, Ch.2, pp.86-89.

Ojha, C. S. P., and Subbaiah, D. (1997) - “Analysis of flow through slot”, *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.123, No.5, pp. 402-405 (September/October)

Patel, N. R., and Shete, D. T. (2008) – “Annual – Monsoon Rainfall Relationship in North Gujarat Region, India”, National conference on Hydraulics and Water Resources, Jaipur, India, December 15-16.

Provenzano, G., and Pumo, D. (2004) – “Experimental analysis of local pressure losses for micro irrigation laterals”, *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.130, No.3, pp.201 – 217 (July/August)

Provenzano, G., Pumo, D., and Di Dio, P. (2005) – “Simplified procedure to evaluate head losses in drip irrigation laterals”, *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.131, No.6, pp.525–532 (November/December)

Provenzano, G., Di Dio, P., and Palau Salvador, G. (2007) – “New computational fluid dynamic procedure to estimate friction and local losses in coextruded drip laterals” *Journal of Irrigation and Drainage Engineering*, ASCE, Vol. 133, No. 6, pp. 520–527 (November/December)

Rao, V. N., and Sahu, R. K. (2004) – “Development and evaluation of micro drip irrigation system in farmer’s field”, Proceedings of XXXVIII Annual Convention & Symposium of Indian Society of Agricultural Engineers, Dapoli, India, January 16-18, pp. II-109 – II-119.

Ravikumar, V., Ranganathan, C.R., and Bosu, S.S. (2003) – “Analytical equation for variation of discharge in drip irrigation laterals”, Journal of Irrigation and Drainage Engineering, ASCE, Vol.129, No.4, pp. 295 - 298 (July/August)

Reddy, K. Y., and Tiwari, K.N., (2004) – “Critical flow based model for economic pipe size selection”, Proceedings of XXXVIII Annual Convention & Symposium of Indian Society of Agricultural Engineers, Dapoli, India, January 16-18, Vol – II, pp. II-1 – II-8.

Report of National water mission under National Action plan on Climate Change, Government of India, Ministry of Water Resources, Voll, 2008

Report of ground water resources estimation committee “Ground water resources estimation methodology”, Ministry of Water Resources, Govt. of India, New Delhi, 2009, pp. 11-12

Saad, J. C. C., and Marino, M. A. (2002) - “Optimum design of micro irrigation systems in sloping lands”, Journal of Irrigation and Drainage Engineering, ASCE, Vol.128, No.2, pp. 116 - 124 (March/April)

Scaloppi, E. J., (1988) - “Adjusted F factor for multiple outlet pipes”, Journal of Irrigation and Drainage Engineering, ASCE, Vol. 114, No. 1, pp. 169 – 174, (January/February)

Shete, D.T. (2000) - “Optimization of drip irrigation system layout and design for row crops and orchards”, Ph.D thesis submitted to The M.S. University of Baroda.

Singh, J., Purohit, R. C., and Gupta, A. K. (2004) – “Economic analysis of different drip irrigation systems(low cost low head type vs conventional type)”,

Proceeding of XXXVIII Annual Convention & Symposium of Indian Society of Agricultural Engineers, Dapoli, India, January 16-18, pp. II-164 – II-168.

Srivastava P.K., Savani N.G., Parikh, M.M., and Raman, S. (1993) – “Hydraulics and surface horizontal movement under microtube drip irrigation”, Gujarat Agricultural University Research Journal, Vol. 19, No.1, pp.21 - 28.

Su, D., Tian, Y., Gao, Q. and Chang, L. (2002) - “Micro irrigation sub main unit with pressure reducing pipes”, Journal of Irrigation and Drainage Engineering, ASCE, Vol. 128, No. 1, pp. 43-48 (January / February)

Valiantzas, J. D. (2002a) – “Continuous outflow variation along irrigation laterals: effect of the number of outlets”, Journal of Irrigation and Drainage Engineering, ASCE, Vol.128, No.1, pp. 34 - 42 (January/February)

Valiantzas, J. D. (2002b) – “Hydraulic analysis and optimum design of multidiameter irrigation laterals”, Journal of Irrigation and Drainage Engineering, ASCE, Vol.128, No.2, pp. 78 - 86 (March/April)

Valiantzas, J. D. (2003a) – “Inlet pressure, energy cost, and economic design of tapered irrigation submains”, Journal of Irrigation and Drainage Engineering, Vol. 129, No. 2, pp. 100 – 107 (March / April)

Valiantzas, J.D. (2003b) – “Explicit hydraulic design of micro irrigation sub main units with tapered manifold and laterals”, Journal of Irrigation and Drainage Engineering, Vol. 129, No. 4, pp. 227 – 236 (July/ August)

Valiantzas, J.D. (2005) – “Modified Hazen–Williams and Darcy–Weisbach Equations for Friction and Local Head Losses along Irrigation Laterals”, Journal of Irrigation and Drainage Engineering, ASCE, Vol. 131, No. 4, pp. 342–350. (July/ August)

Vallesquino, P., and Luque-Escamilla, P. L. (2001) - “New algorithm for hydraulic calculation in irrigation laterals.” Journal of Irrigation and Drainage Engineering, ASCE, Vol.127, No.4, pp. 254 - 260 (July/August)



Vallesquino, P., and Luque-Escamilla, P. L. (2002) – “Equivalent friction factor method for hydraulic calculation in irrigation laterals”, *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.128, No.5, pp. 278 - 286 (September/October)

Visalakshi, K.P., Mathew, R., Suseela, P., and Bridjit, T.K. (2005) – “Kau micro sprinklers – an innovative irrigation technique”, 39th Annual Convention & Symposium of Indian Society of Agricultural Engineers, Hyderabad, India, March 9-11, pp. 60 - 63.

Walpole, R. E., Myers, R. H., Myers S. L., and Ye, K. (2002) – “Probability and Statistics for Engineers & Scientists”, Pearson Education, Indian Branch, Patparganj, Delhi, pp. 367.

Westarp, S. von, Chieng, S., and Schreier, H. (2004) – “A comparison between low-cost drip irrigation, conventional drip irrigation, and hand watering in Nepal”, *Agricultural water management* 64, ELSEVIER, pp. 143-160.

Yildirim, G. and Agiralioğlu, N. (2004a) – “Linear solution for hydraulic analysis of tapered micro irrigation laterals”, *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.130, No.1, pp.78 – 87 (January/February)

Yildirim, G., and Agiralioğlu, N. (2004b) – “Comparative analysis of hydraulic calculation methods in design of micro irrigation laterals”, *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.130, No.3, pp.201 – 217 (May/June)

Yildirim, G. (2006) – “Hydraulic analysis and direct design of multiple outlets pipelines laid on flat and sloping lands”, *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.132, No.6, pp. 537 – 552 (November/December)

Yildirim, G. (2007) – “Analytical relationships for designing multiple outlets pipelines”, *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.133, No.2, pp. 140 – 154 (March/April)

Zade, M. R., Arulkar, K. P., and Deogirikar, A. A. (2004) – “consumptive use of water for summer groundnut at Western Vidarbha (Amravati division)”, XXXVIII Annual Convention & Symposium of Indian Society of Agricultural Engineers, Dapoli, India, January 16-18, pp. II-127 – II-128.