

EFFECTS OF ACID RAIN UPON GROWTH PARAMETERS OF *CALENDULA OFFICINALIS*

T.S. Dhaka and Pragati*

Department of Botany, D.A.V. (P.G.) College, Muzaffarnagar-251001 (U.P.) India

Abstract: In the present investigations the effects of acid rain upon growth parameters of *Calendula officinalis* have been studied. Results showed a decrease in root length, root fresh weight, shoot fresh weight, root dry weight, shoot dry weight, leaves fresh weight and leaves dry w.t. when plants were treated with acid rain solutions.

Keywords: Acid rain, Root length, Shoot length, Root fresh wt., Shoot fresh wt., Leaves fresh wt., Root dry wt., Shoot dry wt., Leaves dry wt.

REFERENCES

- Acid Rain Program** (2007). Progress Report, United States Environmental Protection Agency, January 2009.
- Dhaka, D.T.** (1999). Impact of air pollution on some plants. Ph.D. Thesis, C.C.S. University, Meerut.
- EPA,** *Effects of Acid Rain- Human Health*, 5/13/2009.
- Evans, L.S. and Curry, T.M.** (1979). Differential Responses of Plant Foliage to Simulated Acid Rain, American Journal of Botany, **66**(8): 953-962.
- Kumar, Vipin** (1997). Effect of simulated acid rain on *Zea mays* L. Ph.D. Thesis, C.C.S. University, Meerut.
- Lee, J.J.; Neely, G.E.; Perrigan, S.C. and Grotheus, L.C.** (1981). Effect of simulated acid rain on yield, growth and foliar injury to several crops. Environ Exp. Bot., **21**: 171-185.
- Mark, J.L.** (1975). Air pollution: Effects on plants. Science (USA), **187**(4178): 731-733.
- Outer, R.W. Den, Boercura, M.G. and Den Outer, R.W.** (1987). Effect of acidified water on tracheary elements of the first maize (*Zea mays* L.) internode and conditions determining elongation of this internode. Acta Botanica Netherlandica. **36**(3-4) : 283-243.
- Verma, S.P.** (1999). Studies on phytotoxicity of acid. Ph.D. Thesis, C.C.S. University, Meerut.