## EFFECT OF SIMULATED ACID RAIN ON THE MORPHOLOGY, DRY WEIGHT FRACTION AND NET PRIMARY PRODUCTIVITY OF SOLANUM MELONGENA.

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**Abstract:** Proper growth of plants is essential for high productivity of food grains and vegetation which may be affected by pollutants in environment. As a part of study of the effect of acid rain on plants, its impact on the morphology, dry weight and net primary productivity was studied. Results of study are being discussed in present publication.

Keywords: Solanum melongena, acid rain, Dry weight fraction, net primary productivity

## REFERENCES

**Evans, L.S.; Curry, T.M. and Lewin, K.F.** (1981). Responses of levels of *Phaseolus Vulgaris* Cultiver University of Idabo-III to simulated acid - rain, New Phytol, **88**: 403-420.

**Evans, L.S.; Gmur, N.F. and De Costa, F.** (1978). Leaf Surface and Foliar perturbations of Leaves of *Phaseolus Vulgaris* and *Helianthus annus* after exposure to simulated acid-nain. Amer. J. Bot., **64**: 903-913.

Ferrenhaugh, R.W. (1976). Effect of simulated acid rain on *Phaseolus Vulgaris* L-(Fabaceae). Amer. J. Bot.. **63**: 383-388.

**Hindawi, I. J; Rea J. A. and Griffis, W.L.** (1980). Response of bush bean (*Phaseolus Vulgaris* Cultivar Condender) exposed to acid mist. Amer. J. Bot. **67**: 168-172.

Irving, P.M. and Miller, J.E. (1981). Productivity of field grown soyabeans (Glycine max. cultivar willis) exposed to acid rain and sulphur dioxide alone and in combination. J. Environ. Quality 10: 473-478. Johnston, J.W. Jr.; Spriner, D.S.; Klarer, C.I. and Lodge, D.M. (1982). Effect of rain pH on

senescence, growth and yield of bush bean (*Phaseolus Vulgaris* Cultivar Blue - Lake 274). Environ. Exp. Bot. **22**: 324-338.

**Keever, G.J. and Jacobson, J.S.** (1983). Simulated acid rain effects on Zinnia (*Zinnia elegans*) as influenced by available nutrients. J. Am. Soc. Hortic. Sci. **108**: 80-83.

**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 of several Crops. Environ. Exp. Bot. **21**: 171-185.

**Likens, G.E.** (1984). Acid rain: the smokestack as in the "smoking gun". Garden **8** (4): 12-18.

**Sharma, M. and Sharma, V.P.** (2011). Effect of acid rain on the contents of leaves of *Solanum melongena*, Journal of Plant Development Sciences. **3** (1 & 2): 169-173.

**Wardlaw, I.F.** (1968). The control and Pattern of movement of carbon hydrate in plants. Bot. Rev. **34**: 79-105.

Weathers, K.C. and Likens, G.E. (2006). Acid rain. pp. 1549-1561. In: W. N. Rom (ed.). Environmental and Occupational Medicine. Lippincott - Raven Publ., Philadelphia. Fourth Edition.

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