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Influence of chemical fertilizers and biofertilizers on dry matter yield and NPK uptake by cabbage (*Brassica oleracea* var. capitata Linn.)

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ABSTRACT : An experiment was carried out during Rabi 2006-07 and 2007-08 at Bihar Agricultural College, Sabour to find out the effect of inorganic fertilizers and bio fertilizers on dry matter yield per plant and NPK-uptake by plant from soil. Five levels of inorganic fertilizers (F_1-N_{80} P_{40} K_{40}, F_2 – N_{120} P_{60} K_{60}, F_3-N_{160} P_{80} K_{80} F_4 – N_{200} P_{100} K_{100} and F_5 – N_{240} P_{120} K_{120}) and five treatments of bio fertilizers (M1-O, M_2-*Azotobacter*, M_3 – *Azospirillum*, M_4 – VAM and M_5 – PSB) were taken. The data of two years were pooled and analysed. The results of the investigation revealed that maximum dry matter production per plant and NPK- uptake by plant from soil was obtained at fertility level of N_{200} P_{100} K_{100}. The interaction effect of inorganic fertilizers and bio fertilizers were also found highly significant. The plant grown at fertility level of N_{200} P_{100} K_{100} along with application of *Azospirillum* as seed and seedlings treatment as well as soil application gave the highest dry matter yield per plant as well as NPK – uptake by plant from the soil.

KEY WORDS : Chemical fertilizer, Biofertilizer, NPK, Cabbage

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