



## A Review

# Effect of FYM, biofertilizer and chemical fertilizers on wheat

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### Summary

At global level, India ranks as second largest wheat producing nation and contributing approximately 11.9 per cent to the world wheat production from about 12 per cent of global area. The area under wheat throughout the world as well as in India has become nearly constant around 217.9 million ha and 26.9 million ha, respectively. Wheat contributes about 30 per cent of total grain production in India (Economic Survey, 2007). Long time studies being carried out at several locations in India indicated that application of all the needy nutrients through chemical fertilizers have deteriorious effect on soil health leading to unsustainable yields. During 2008-09, India produced a record wheat production of 80.58 million tones. One of the major constraints in boosting up the wheat production is the deteriorious effect on soil health. Therefore; there is a need to improve nutrient supply system in terms of integrated nutrient management involving the use of chemical fertilizers in conjunction with organic manures coupled with input through biological processes. Balanced fertilizer is the application of essential plant nutrients in light proportion and in optimum quantity for a specific soil crop condition. Continuous imbalanced use of fertilizer led to the deterioration in the soil fertility and decrease in soil productivity. Higher yield at balanced nutrition safe guard soil fertility. Integrated plant nutrient supply system could help in meeting the goals of balanced fertilization. The research findings on various aspects of the integrated nutrient management on wheat are reviewed.

**Key words :** FYM, Fertilizers, Biofertilizer, Chemical fertilizers, Wheat

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