

Integrated effect of different substrates on growth parameters and yield of *Pleurotus sajor caju*

NIRDESH KUMAR, S.K. BISWAS*, KISHAN LAL, DIPAK BABOO AND ARSHAD HUSSAIN

*Department of Plant Pathology, C. S. Azad University of Agriculture and Technology,
Kanpur 208002, Uttar Pradesh*

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Various agricultural waste like wheat, lentil, paddy, mustard, urd, moong, pea, maize, grass straw, sugarcane bagasses have been integrated in different combinations and found variable response on growth parameters and yield of *Pleurotus sajor caju*. Among the various combinations, the minimum 11 days require for spawn running stage in T5 treatments where combinations are as 3/4wheat straw+1/4mustard straw+100gm wheat bran which was followed by T10 treatment. Similarly, the minimum days require for pin head initiation is noted in T5 treatment which is only 16 days against 35 day in case of T29 treatment where only grasses are used as substrates. The maximum number of stripe length was found T5 treatment which is 4 cm at the time of harvesting against 1.5 cm in case of T28 treatments but in case of wheat straw, the value 2.5 cm only. The crop of *Pleurotus sajor caju* was harvested in 5 flushes, the maximum yield was obtained in the first flush, than the second and third flushes in all the treatments. The maximum yield was obtained from T5 treatment where combination of substrates were given as (3/4 wheat straw+1/4 mustard straw+100gm wheat bran) representing the value 1483 gm per bag.

Key words: Oyster mushroom, agricultural waste, spawn, growth parameters, yield
