

Short Communication**Effect of nitrogen and sulphur on yield and quality of Mustard (*Brassica juncea*) under rain fed condition**V.P. Dwivedi¹, *N.K. Srivastava² and Shudhanshu Shekhar³¹Department of Agronomy,²Department of Botany,

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A field trial was conducted with different levels of nitroge and sulphur on mustard sown. Nitrogen increased the yield of mustard but sulfur was ineffective.

Figure : 00

References : 02

Table : 01

KEY WORDS : Desert ecosystem, Forests, Grasslands, Livestock, Management, Wildlife

A filed trial was conducted at the research farm of S.D.J.P.G. College Chandeshwar, Azamgarh (U.P.) in *Rabi*

season 2016-17. There were 12 treatment combinations of four nitrogen levels (N_0 , N_{30} , N_{60} and N_{90} kg/ha) and

TABLE-1 : Yields and yield attributing of characters of mustard crops

Treatments	No. of Siliqua/ Plant	Length of Siliqua	No. of seed/ Siliqua	Yield/ Plant (g)	Seed Yield q/ha	Stover yield q/ha	Oil content %	Oil yield q/ha
Nitrogen (kg/ha)								
N_0	201.75	4.55	12.25	10.68	6.87	34.88	41.23	2.84
N_{30}	217.92	4.78	12.71	11.78	9.27	39.57	39.84	3.71
N_{60}	247.92	4.93	13.26	13.46	10.49	44.88	39.33	4.13
N_{90}	250.17	5.19	13.55	14.28	10.90	46.08	38.71	4.22
C.D. 5%	10.23	0.14	216.61	0.46	0.68	4.60	0.69	0.27
Sulphur (kg/ha)								
S_0	207.31	4.83	12.70	12.13	8.36	37.23	39.22	3.27
S_{20}	237.00	4.86	13.10	12.57	9.46	42.00	39.83	3.85
S_{40}	244.00	4.88	13.02	12.96	10.13	44.75	40.29	4.07
C.D. 5%	8.86	N.S.	N.S.	0.40	0.58	3.77	0.59	0.24

sulphur levels 0, 20 and 40 kg/ha Table - 1. Mustard C.V. NDR 8501 was sown in rows. The experiment was laid out in split plot design (S.P.D.) with four replications. The soil was silty loam in texture with a pH of 7.8 and 0.40% organic carbon, the available nitrogen, phosphorus and potash were 140, 13.5 and 192 kg/ha respectively.

Application of 60 kg nitrogen and 90 kg nitrogen/ha increased no. of Siliqua/plant, no of seed per Siliqua,

seed yield q/ha, percentage of oil content and oil yield q/ha significantly as compared to other levels of nitrogen (Table-1). The oil content was maximum (41.23%) with no nitrogen application. These findings are in conformity with previous finding². The Sulphur level Sulphur 20 kg/ha and 40 kg/ha did not influence most of the yield attributing characters such as no. of siliqua/plant seed yield per plant seed yield q/ha stover yield, oil content and oil yield q/ha. Similar findings were reported earlier¹.

References

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