

Treatment (T)	75.01	<.0001**
Sampling Date (D)	13.07	<.0001**
Soil Layer (L)	20.67	<.0001**
Treatment x sampling Date (T x D)	0.93	0.5125 ns
Treatment x Soil Layer (T x L)	1.39	0.2551 ns
Sampling Date x Soil Layer (D x L)	2.13	0.0717 ns
Treatment x Sampling Date x Soil Layer (T x D x L)	0.6	0.8096 ns

Table 2. Total Carbon, total nitrogen, bulk density, C : N of each treatment in different layers at harvesting by Turkey kremar (n=3). Means with same letter 'a 'within same column or same letter 'A 'within same row are not significantly (P > 0.05) different.

Treatments	Total Carbon (g / kg)		Total Nitrogen (g/kg)		Bulk density (g/ cm³)		C:N		
		0 - 2.5 cm	5 - 7.5cm	0 - 2.5 cm	5 - 7.5cm	0 - 2.5 cm	5 - 7.5cm	0 - 2.5 cm	5 - 7.5cm
	Manure	34.84Aa	37.83Aa	3.31Aa	3.30Aa	0.87 a	0.88 a	10.52	11.46
	Chemical Fertilizer	25.53Ba	23.92Ba	2.56 Bb	2.32 Bb	1.03 b	0.97 b	9.97	10.31
	Control	23.81Ba	22.73Ba	2.30Bb	2.19Bb	1.02b	1.01 b	10.35	10.38

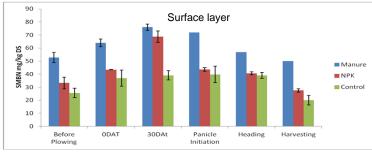


Figure -1 : Contribution of SMBN in each sampling time in upper CONCLUSION layer. Vertical bars indicate standard error.

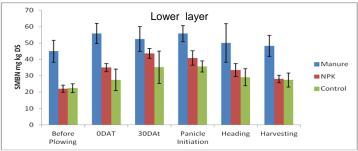


Figure- 2: Contribution of SMBN in each sampling time in lower layer, vertical bars indicates standard error .

1. The highest SMBN was observed in 30 DAT regardless of treatments.

2. Organic matter application gave the highest SMBN, total carbon and nitrogen among treatments in all sampling times.

3. Chemical Fertilizer have no effect on SMBN.