

Supplementary Table 1 Best treatment combination with optimal area distribution during *rabi* season for sustaining goat fodder requirements

Best treatment combination	Area cultivated	Green produced (kg)			Grain yield (kg)
		Non- leguminous	Leguminous	Total	
Oat + Berseem (2:1)	560 m ²	2585±50	1150±55	3735±103	-
Barley + Berseem (2:1)	560 m ²	-	1100±55	1100±55	175±7
Fodder berseem (25 kg seed/ha with 100 kg P ₂ O ₅ /ha)	1456 m ²	-	11425±358	11425±358	-
Dual purpose barley (125 kg seed/ha with 75 kg N/ha)	1424 m ²	3285±128	-	3285±128	477±18
Total	4000 m ²	Total green fodder production – 19545 kg Total barley grain production – 652 kg			

Hybrid Napier as green fencing of the area provides additional green fodder for lean period.