

## **Bikazugi Agricultural Non-profit Ltd.**

Szabadsag str. 30, H-5540 Szarvas, Pf.: 54

Telephone: +36 66 311 192, Fax: +36 66 216 566

E-mail: [energiafu@szarvasnet.hu](mailto:energiafu@szarvasnet.hu)

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### **Cultivation guidance for 'Szarvasi-1' energy grass**

The successful plantation of 'Szarvasi-1' energy grass (*Elymus elongatus* subsp. *ponticus* cv. Szarvasi-1) requires a eutrophic soil of fair water supply, which is in general suitable also for cultivation of wheat.

The 'Szarvasi-1' energy grass has a high adaptability, it can be efficiently cultivated on szik and poor quality soil as well.

It is suitable for re-cultivation, industrial utilization and fodder purposes.

#### **Pre-crops:**

Good pre-crops of the 'Szarvasi-1' energy grass are winter wheat and other grain crops, lucern, pea, rape etc.

#### **Soil preparation:**

In order to have a soil suitable for seeding it is essential to have a 6 to 10 weeks long period between the harvesting of the previous crop and the seeding of the 'Szarvasi-1' energy grass.

In case the soil is strongly fixed and has a poor water management quality, it is recommended to perform a 50-60 cm deep disintegration with the adequate machinery.

- 20-25 cm deep ploughing (if necessary) or
- disk-harrowing with two rows (diagonally, then lengthwise)
- rolling in multiple rows until the soil is necessarily smooth and dense.

#### **Recommended amount of nutrients:**

- Basic artificial manure: 200 kg/ha complex artificial manure (N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O) worked in between two disk-harrow rows.
- Other manures: 100-150 kg/ha ammonium nitrate in the spring.

#### **Timing of plantation:**

Seeding is recommended both in spring (March to April) and at the end of summer (August to September).