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WP2. Adaptability and Productivity Field Trials

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Task 2.4: Kenaf field trials with size 2 ha.

The establishment of the 2 ha field will be carried out based on the experience of the smaller kenaf trials that will be established in central Greece in the first and the second growing season of the project.

Task 2.4: Kenaf field trials with size 2 ha

- The cultivation of kenaf in the 2 ha field will be performed mechanically (sowing, weed control, fertilization and harvesting).
- For the irrigation of the plants will be used a common overhead irrigation system.
- During the growing period productivity data will be recorded in order to give a more realistic estimation about the productivity of kenaf

Task 2.4: Kenaf field trials with size 2 ha

- The 2 ha field will be established next a main road.
- Training visits for the local farmers will be carried out.
- A seminar will be organized for the dissemination of the results that will be derived focus on specific target groups (farmers, scientists and industries).
- The handbook that will be prepared will be distributed in the audience of the seminar.

Previous experience on kenaf

In the view of a national programme
 DIMITRA 95 a total number of six
 kenaf trials were established for a period of three years (1997, 1998, 1999) in two sites in northern Greece (Komotini and Xanthi).

Description of the previous trials

William Section 199	Site	Site coordinates	Experimental layout	Treatments
	Komotini (northern Greece)	latitude 41° 05' longitude 25° 20' altitude 37 m	2x3 ² factorial in a randomized complete block design in three replications	Tainung 2 Mal 1 Everglades 41 320,000 pl/ha 170,000 pl/ha I ₁ =fully irrigated I ₂ =1/2 I ₁
	Xanthi (northern Greece)	latitude 41° 06' longitude 23° 18' altitude 15 m	2x3 factorial in a randomized complete block design in three replications	Tainung 2 Mal 1 Everglades 41 60 kg N/ha 120 kg N/ha

Fresh and dry matter yields (t/ha)

Site	Treatments	Fresh matter yields (t/ha)	Dry matter yields (t/ha)
Komotini	Tainung 2	72.24	23.51
(northern Greece)	Mal 1	71.85	20.72
	Everglades 41	69.54	18.06
M Z	320,000 pl/ha	80.45	21.66
	170,000 pl/ha	72.16	20.71
	I₁=fully irrigated	72.46	21.17
	I ₂ =1/2 I ₁	69.81	20.31
Xanthi	Tainung 2	55.00	14.35
(northern	Mal 1	50.52	14.64
Greece)	Everglades 41	55.29	13.99
	60 kg N/ha	53.16	13.64
	120 kg N/ha	51.2	13.12

View of kenaf at the first stages of growth (left) and at the harvesting time (right).



