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INTERSPECIFIC HYBRIDIZATION IN LOTUS

According to statistical analysis of green matter weight, dry matter, and protein content, for the first cut of Lotus hybrids from the F_3 generation [Lotus corniculatus X Lotus uliginosus (4x)] in 1974 there were no significant differences among investigated forms (data in Lotus Newslett. 5: 8, 1974).

Significant differences appeared only in the second and third cut. Protein weight differed significantly in both cuts, while green matter weight in the second and dry matter weight in the third cut.

Table 1. Green-, dry matter and protein weight of the second and third cut of Lotus hybrids from the F_3 generation [Lotus corniculatus X Lotus uliginosus (4x)] - 1974.

Origin of plants investigated	Green matter weight q/ha		Dry matter weight q/ha		Protein weight in dry matter q/ha	
	II cut	III cut	II cut	III cut	II cut	III cut
$F_3/1$	265.8	51.6	47.5	13.0	8.147	2.382
$F_3/2$	229.2	43.3	39.2	8.8	6.722	1.683
$F_3/3$	254.2	55.0	42.5	13.3	8.430	2.082
$F_3/4$	322.5	54.1	60.0	12.5	10.537	2.299
<u>Lotus corniculatus</u> "Bursztyn"	374.2	82.5	60.8	17.1	9.746	3.090
<u>Lotus uliginosus</u>	362.5	80.0	60.8	19.6	10.096	3.207
<u>Canadian Lotus corniculatus</u>	368.3	120.8	56.6	30.0	9.430	4.865