

Objective

To determine the effect of **tree management** on ruminal effective **degradability** of dry matter (EDDM) and **nitrogen** (EDN) in **leaves** of two high-quality forage tree species.

White mulberry
Morus Alba

High stem trees



Pollards



Common ash
Fraxinus excelsior



Materials and methods

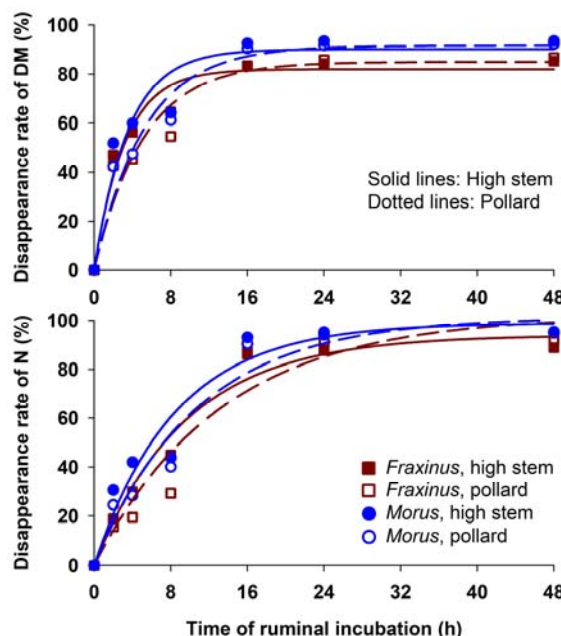
- **Collection of leaves:** August 2016, France, *Fraxinus* from Lusignan, *Morus* from Le Pradel. Trees pollarded since 2 years (*Fraxinus*) or 12 years (*Morus*).
- **Ruminal degradability:** November 2016, *in situ* leaves degradation in nylon bags, replicated on 3 dry Holstein cows, after 2, 4, 8, 16, 24 and 48 h of incubation.



Results

	<i>Morus alba</i>		<i>Fraxinus excelsior</i>	
	High stem	Pollard	High stem	Pollard
DM (g/kg)	321	326	439	395
CP (g/kg DM)	164	129	156	177
EDDM (%)	75.8	70.8	70.0	66.3
EDN (%)	66.1	61.5	59.2	55.4

DM: dry matter CP: crude protein



Conclusions

- **Good nutritive value** of the leaves of the two species whatever tree management.
- **No interaction** between species and management on effective degradability of leaves ($P > 0.10$).
- **Greater** effective degradability on *Morus alba* than on *Fraxinus excelsior* leaves ($P < 0.001$).
- **Greater** effective degradability of leaves on **high stem trees** than on pollards ($P < 0.01$).