

Various strategy of management and clonal selection effect on short rotation coppice willow biomass and manual harvesting productivity



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The planting was established in April of 2011 when beginning research:

"Development of multifunctional deciduous tree and energy plant plantations model establishment and management" under European regional development fund project Nr. 2010/0268/2DP/2.1.1.1.0/10/APIA/VIAA/118

All clones and species were planted simultaneously. Two thirds of shoots were cut in the beginning of 2012 and the other third in the beginning of 2013.

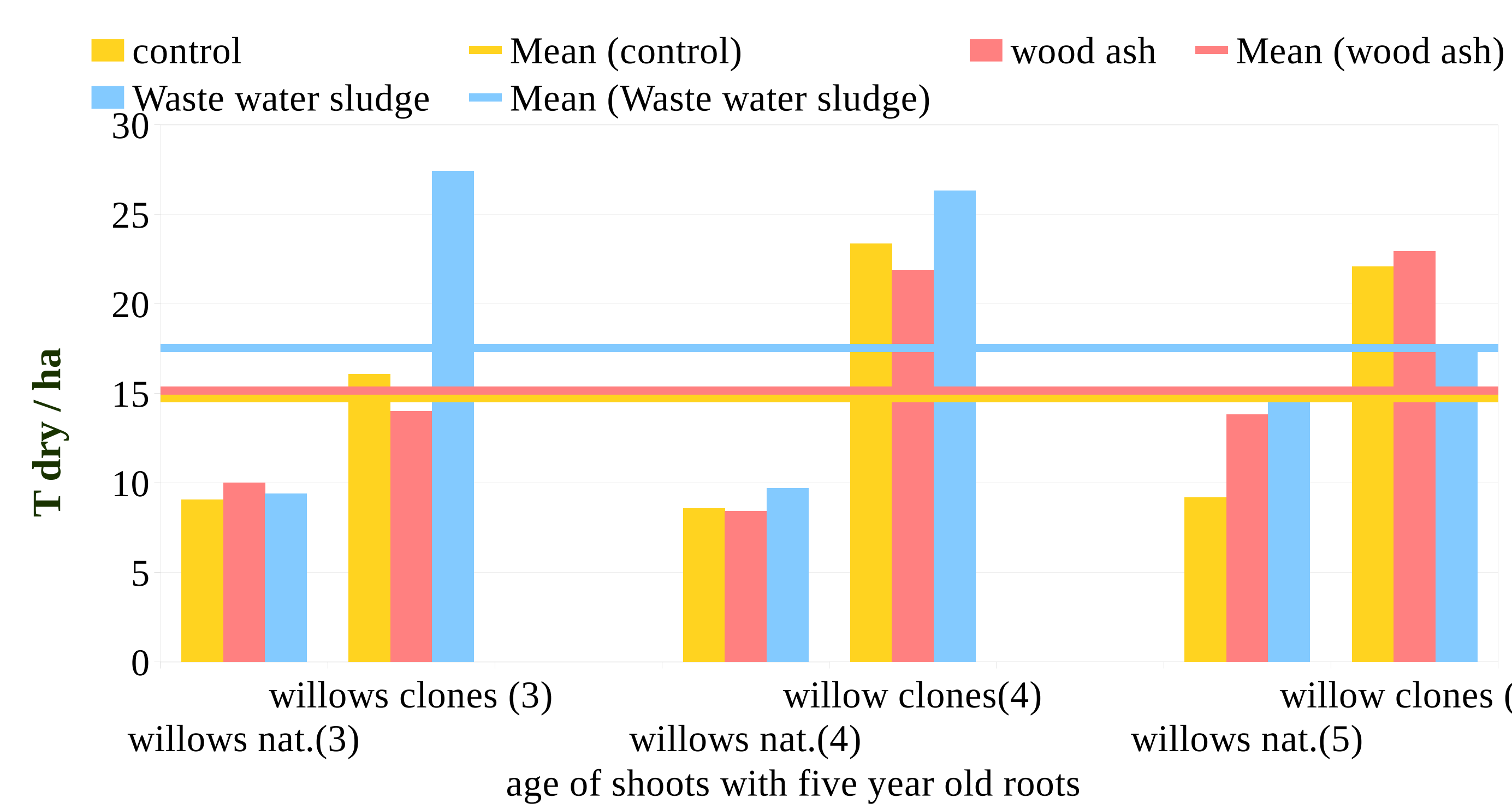
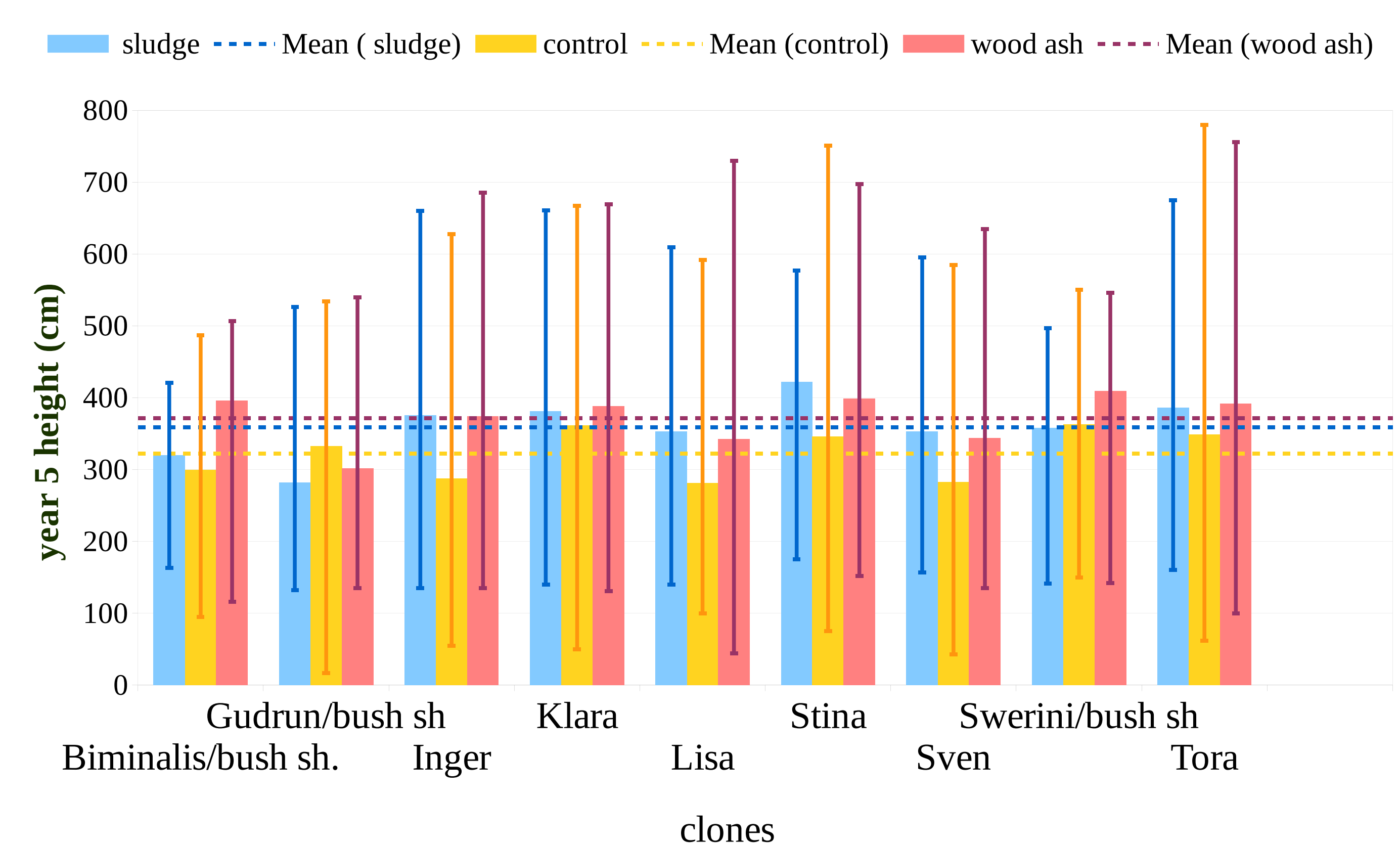
The planting was sustained with funding from the *"Research of fast growing tree plantation establishment and management methods and evaluation of the suitability of obtained wood pulp for production of granules" European regional development fund project Nr. 2013/0049/2DP/2.1.1.1.0/13/APIA/VIAA/031* project.

In the end of 2015 realizing the ENERWOODS project measurements were made on 5 year old shoots which are to be grown as trees.

Biomass was obtained from the shoots under the SRC plus project:

- 5 year old – not cut back, grows in tree-like shape, should be grown as single stand plantings for production of firewood assortment;
- 4 year old – were cut back once (theoretically for the extension of one extraction shoots) to increase the number of shoots from one planting spot and obtain more chipping wood;
- 3 year old – cut back twice (for the extension of theoretically twice extracted shoots).

The extraction of shoots was performed under the SRC plus project with 4 different hand tools and the time of useful varieties was registered!

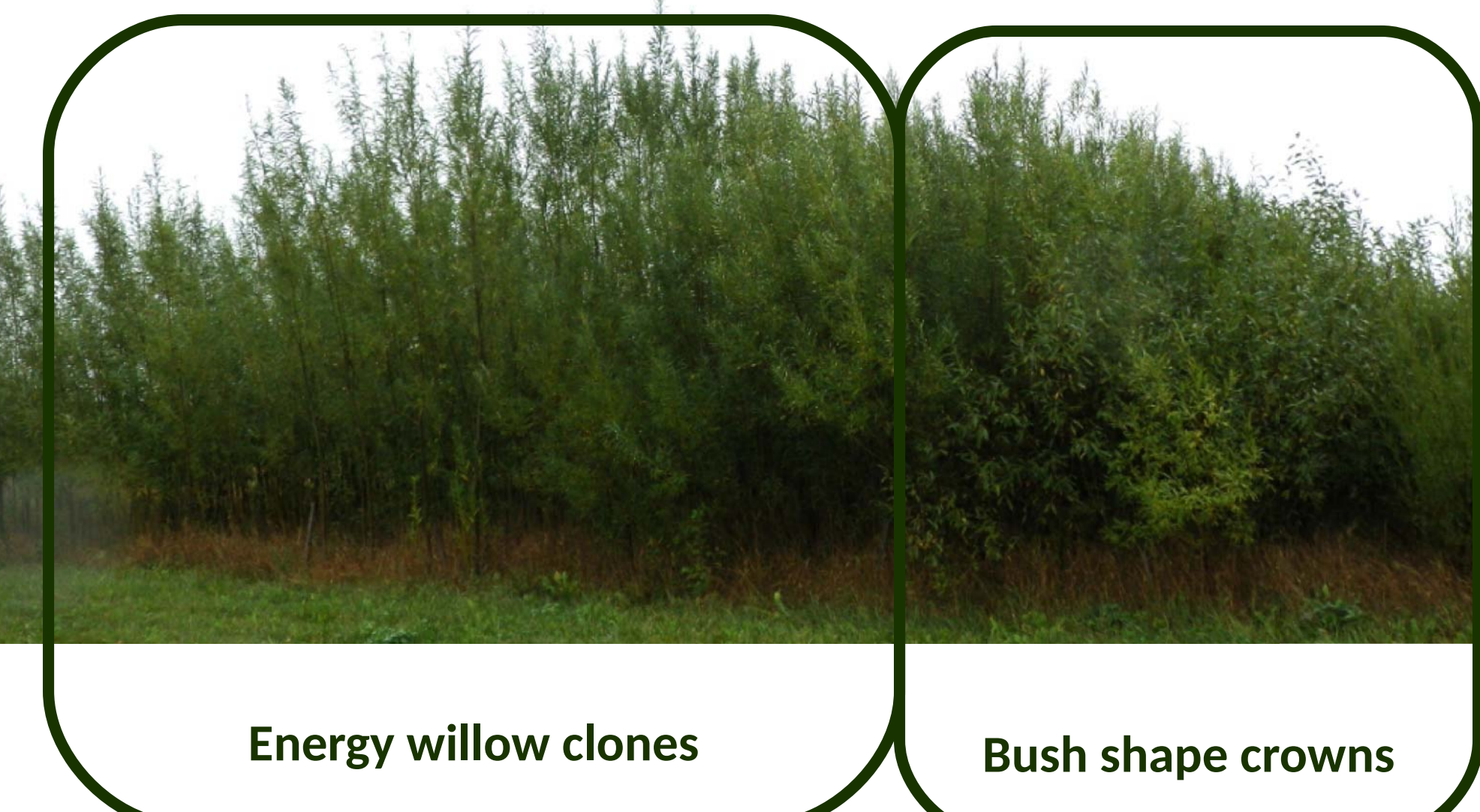


kontrols	pelni	daņas	kontrols	kontrols	daņas	kontrols	pelni	kontrols	kontrols	pelni	daņas
SVEN	SVEN	SVEN	SVEN	SVEN	SVEN	SVEN	SVEN	SVEN	SVEN	SVEN	SVEN
KLARA	KLARA	KLARA	KLARA	KLARA	KLARA	KLARA	KLARA	KLARA	KLARA	KLARA	KLARA
INGER	INGER	INGER	INGER	INGER	INGER	INGER	INGER	INGER	INGER	INGER	INGER
GUDRUN	GUDRUN	GUDRUN	GUDRUN	GUDRUN	GUDRUN	GUDRUN	GUDRUN	GUDRUN	GUDRUN	GUDRUN	GUDRUN
LISA	LISA	LISA	LISA	LISA	LISA	LISA	LISA	LISA	LISA	LISA	LISA
TORA	TORA	TORA	TORA	TORA	TORA	TORA	TORA	TORA	TORA	TORA	TORA
STINA	STINA	STINA	STINA	STINA	STINA	STINA	STINA	STINA	STINA	STINA	STINA
BIMINALIS	BIMINALIS	BIMINALIS	BIMINALIS	BIMINALIS	BIMINALIS	BIMINALIS	BIMINALIS	BIMINALIS	BIMINALIS	BIMINALIS	BIMINALIS
SWERINI	SWERINI	SWERINI	SWERINI	SWERINI	SWERINI	SWERINI	SWERINI	SWERINI	SWERINI	SWERINI	SWERINI
BURJATICA	BURJATICA	BURJATICA	BURJATICA	BURJATICA	BURJATICA	BURJATICA	BURJATICA	BURJATICA	BURJATICA	BURJATICA	BURJATICA

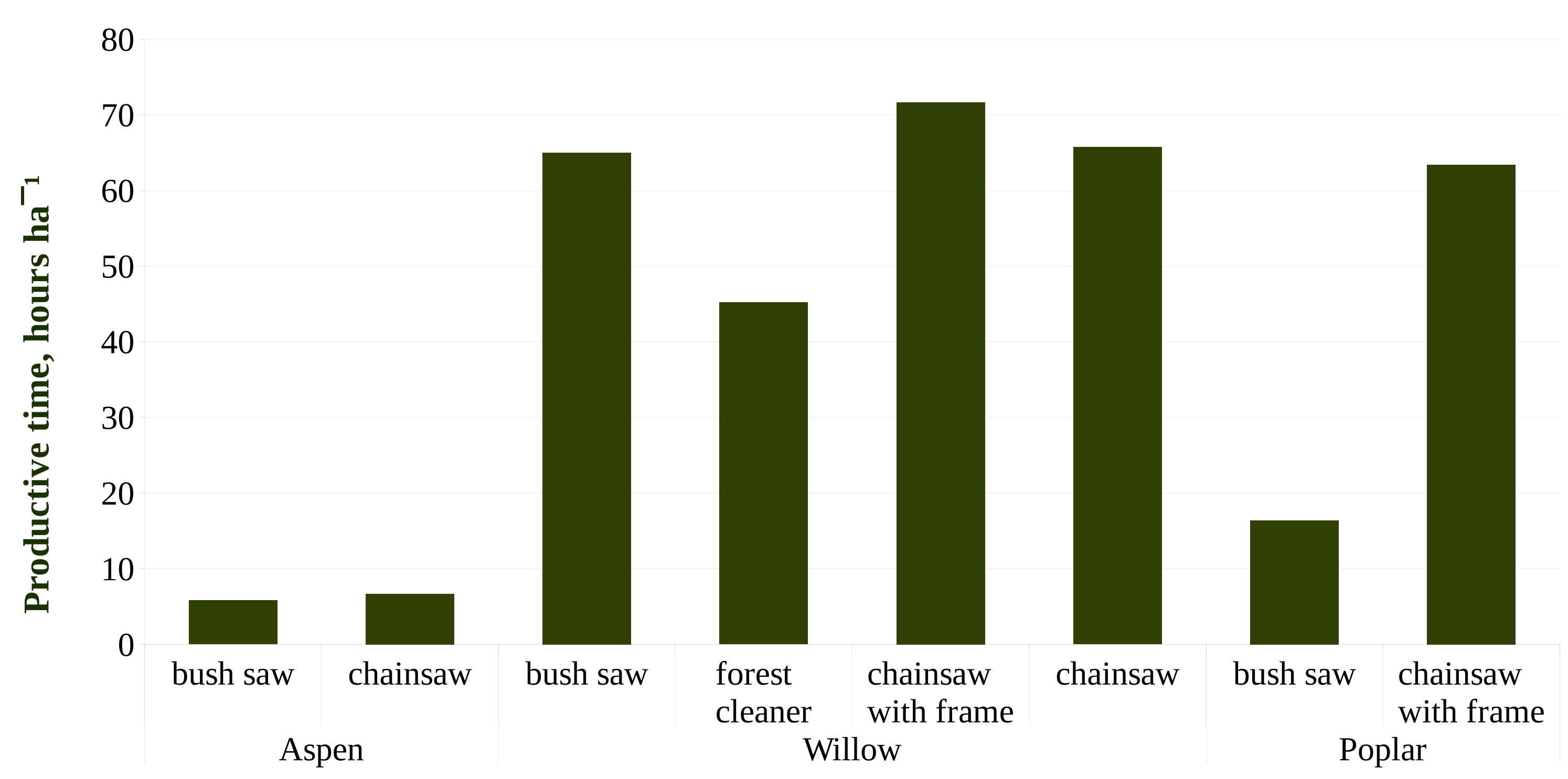


Pamatmērojumus / vecums	kontrols			pelni			daņas			kontrols		
	5 gadīgi dzinumi	4 gadīgi dzinumi	3 gadīgi dzinumi	5 gadīgi dzinumi	4 gadīgi dzinumi	3 gadīgi dzinumi	5 gadīgi dzinumi	4 gadīgi dzinumi	3 gadīgi dzinumi	5 gadīgi dzinumi	4 gadīgi dzinumi	3 gadīgi dzinumi
Selekcionālie enerģētiskākie kloni	KLARA	INGER	GUDRUN	LISA	TORA	STINA	BIMINALIS	SWERINI	BURJATICA	KLARA	INGER	GUDRUN
Kārkli ar kāmveida formu	BIMINALIS	SWERINI	BURJATICA	BIMINALIS	SWERINI	BURJATICA	BIMINALIS	SWERINI	BURJATICA	BIMINALIS	SWERINI	BURJATICA

Design of willow clone test
Kārklu klonu pārbaudes stādījumu shēma



Harvesting methods



Acknowledgements to: COST Action FP1301 Eurocoppice, ENERWOODS and SRC plus projects.

The study is done by the scope of the Commission in the Intelligent Energy for Europe Programme project: "Short Rotation Woody Crops (SRC) for local supply chains and heat use"

