
(*Cedrus atlantica* Manetti)

(*Cedrus atlantica* Manetti)

)

()

(

)

()

(

(*Cedrus atlantica* Manetti)

:

Archive of SID

// : // :

(E_mail:Masoudtabari@yahoo.com)

)

()

()

()

()

()

/ (Q2)

(*Cedrus atlantica* Manetti)

/ / (pH)

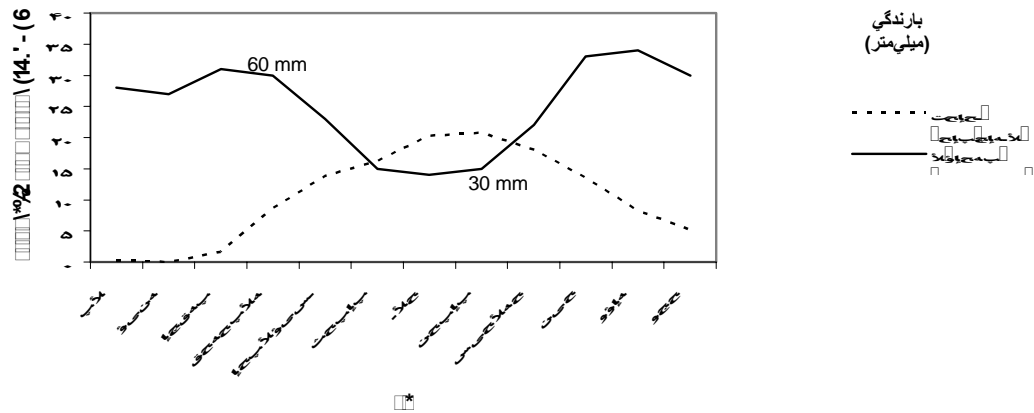
)

(*Cedrus libani*)

(

()

pH



() ()

	(%)	(%)	()	(pH)	(%)		()
/	/	/	/	/			A0
/	/	/	/	/			
/	/	/	/	/	/		
/	/	/	/	/	/		
/	/	/	/	/	/		

() ()

t () ()
EXCEL SPSS

() ()

- Anonymous
- Cochran & Cox

...

.() (d.f.= t= / P= /)

()

.()

() ()	() ()	() ()	± () ()	() ()	() ()	() ()	() ()
/	/	/	± / b	/	/	/	/
/	/ *	/	± / a	/	/	/	/

t-test)

±)

*

t= P= /)

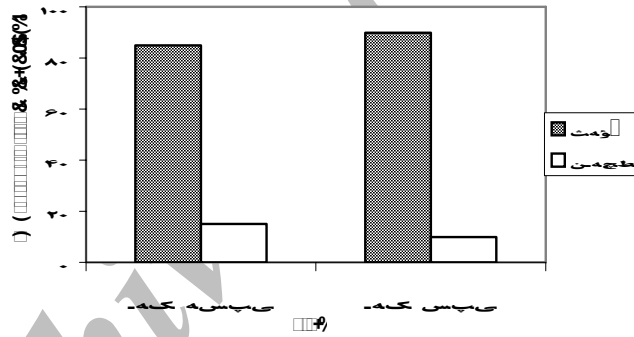
.() (d.f.= /

)± ()	()	()	()	
±		/	/	
±		/	/	

()

" "

" "



Ilex

spinigera

()

Cornus sp., *Crataegus monogina*, *Mespilus*

Frangula vesca germanica, *Acer laetum*

Cyclamen europaea, *Viola alba*

()

()

Picea abies

Picea abies

Picea abies

- 5-Alptekin, CU; Bariteau, M. & Fabre, JP., 1997. *Cedrus Libani* in Turkey: Natural Habit, Insect Pests, and Potential for Afforestation in France. *Revue-Forestiere-Francaise*, 49: 1, 19-31.
- 6-Anonymous, 1999. Forest Condition in Europe. Results of the 1997 Crown Condition Survey Technical Report Prepared by Federal Research Center for Forestry and Forest Products, 140 pp.
- 7-Asadollahi, F. & Hedayati, M. A., 1991. *Cedrus* plantation Experiments in Iran. 10th World Forestry Congress, Paris, 1991. Proceedings, 5: 167-171.
- 8-Cochran, W.G. & Cox, G. M., 1957. Experimental Design. J. Wiley & Sons. Inc. NY. pp. 95-102.
- 9-Kitic, D. & Bojovic, S., 1990. Atlas cedar (*Cedrus atlantica* Manetti) in Northern Sumadija [Yugoslavia]. *Sumarstvo (Yugoslavia)*. 43: 6, 21-30.
- 10-Masotti, V; Barthelemy, D; Mialet, I; Sabatier, S; Caraglio, Y & Bouchon, J., 1995. Study of the Influence of Site Conditions on Growth, Branching and Morphology of Atlas cedar, *Cedrus atlantica*. Architecture of Fruit Trees and Forest Trees. Paper Given at a Conference Held 23-25 November 1993 at Montpellier, France. Les Colloques, No. 74; 175-189. PB: Institut National de la Recherche Agronomique (INRA), Paris, France.

The Effect of Thinning on Atlas Cedar (*Cedrus atlantica* Manetti) in North of Iran

M. R. Poormajidian¹

M. Tabari²

Abstract

Effect of thinning on Atlas cedar (*Cedrus atlantica* Manetti) was investigated in a man-grown forest in Kellar-Dasht region, north of Iran. In this forest, a silvicultural practice, namely thinning was carried out in five replications, each of 200m² area for removing 25% of tree basal area; besides that, five replications, each of 200m² were considered as control. The results in a 5-year investigation period revealed that mean diameter growth in *C. atlantica* was twice as much in thinned stand than in control ($p < 0.01$) but statistical difference in mean height growth in the two stands was not significant. Vitality quality in most of trees was satisfactory but no significant difference of this term could be observed in the two treatments. Fruit bearing was significantly more abundant in the thinned stand. Plant diversity, presented by broadleaves ingrowth as well as herbaceous species, was more conspicuous in the thinned stand.

Keywords: *Cedrus atlantica* Manetti, Diameter growth, Height growth, Plant diversity, Thinning, Vitality.

¹ -Assistant Professor, Faculty of Natural Resources, University of Mazandaran

² - Assistant Professor, Faculty of Natural Resources, University of Tarbiat Modarres (E-mail: masoudtabari@yahoo.com)