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(*Pinus taeda* L.)

(*Pinus nigra* Arn. ssp. *austriaca*)

Cryptomeria japonica D.)

(*Pinus brutia* Ten.)

(*Pinus longifolia* Sarg.)

(*Cedrus deodara* D. Don.)

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(*Pinus radiata* D. Don.)

(*Pinus pinaster* Ait.)

(Don.)

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(Rahmani et al., 2001)

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Critchfield & Elbert,)

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(1966

(Langdon, 1979)

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(Bahri, 2010

(Dastmalchi, 1995)

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:(Mohammadnezhad Kiasari et al., 2008)

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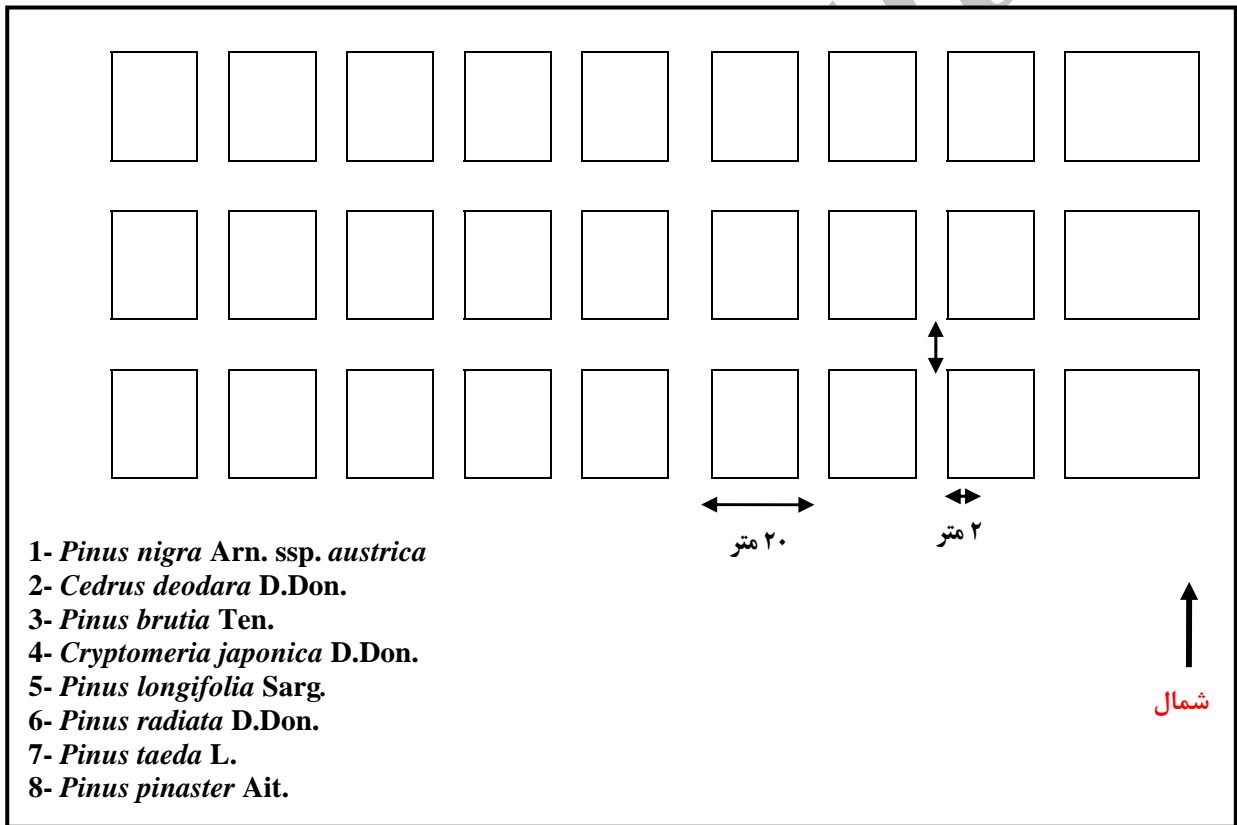
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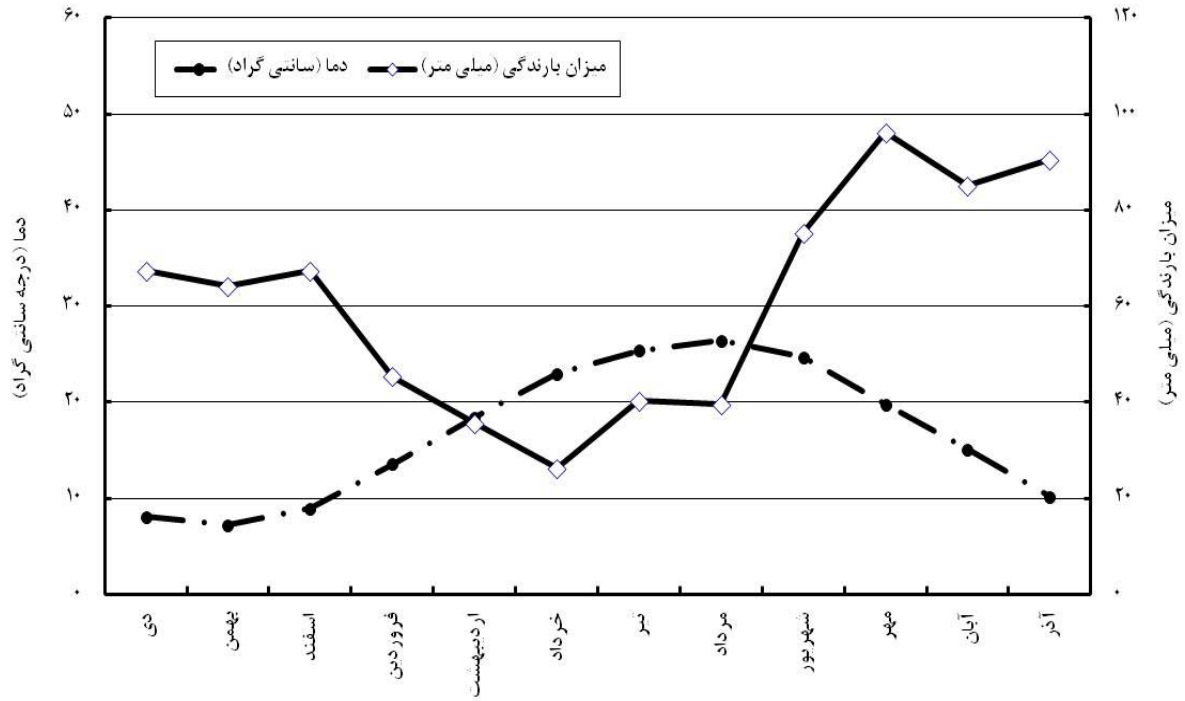
(+)	<i>Pinus nigra</i> Arn. ssp. <i>austrica</i>
(+)	<i>Cedrus deodara</i> D.Don.
(+)	<i>Pinus brutia</i> Ten.
(+)	<i>Cryptomeria japonica</i> D.Don.
(+)	<i>Pinus longifolia</i> Sarg.
(+)	<i>Pinus radiata</i> D.Don.
(+)	<i>Pinus taeda</i> L.
(+)	<i>Pinus pinaster</i> Ait.



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P.P.m.	P.P.m.	%	Me/100g	O.C%	T.N.V%	pH	(Cm)
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/	/	/	/	/	/	/	B _{t2}
/	/	/	/	/	/	/	C

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/ a	/ a	Bc *	<i>Pinus brutia</i>
/ a	/ a	a	<i>Pinus taeda</i>
/ a	/ a	/ bc	<i>Pinus radiata</i>
/ b	/ a	/ d	<i>Pinus longifolia</i>
/ c	/ b	ab	<i>Pinus nigra var. austriaca</i>
/ a	/ a	/ c	<i>Pinus pinaster</i>
/ b	/ b	/ bc	<i>Cryptomeria japonica</i>
/ a	/ a	/ cd	<i>Cedrus deodara</i>

*

c	/	bc	/	b	/	a*	<i>Pinus brutia</i>
c		bc	/	b	/	a	<i>Pinus taeda</i>
/	c	/	bc	/	b	/	a
c		bc		b		a	<i>Pinus longifolia</i>
/	b	/	a	/	b	/	<i>Pinus nigra var. austriaca</i>
/	c	/	c	/	b	/	<i>Pinus pinaster</i>
c	/	bc	/	b	/	a	<i>Cryptomeria japonica</i>
c		c	/	bc	/	a	<i>Cedrus deodara</i>

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(Little, 1971)

(Mohammadnezhad Kiasari et al., 2007)

(Fowells, 1965)

(Gelderen & Smith, 1992)

(Forests and Rangelands Organisation, 1996)

(Foil & Ralston, 1967)

Gholizadeh,)

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(Isik & Kara, 1997)

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Adaptation of the Most Important Conifers of *Neka* Forests (Kohsarkandeh)

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Abstract

The aim of this study was to introduce the most successful exotic coniferous species for forest plantation projects. The trial conducted in 1993 at low altitude of *Neka* region in *Mazandaran* Province of I. R. Iran (North Forests), under Completely Randomized Block Design (CRBD) with three replication and eight treatments. The treatments consisted of six Pine species (*P. taeda*, *P. radiata*, *P. brutia*, *P. nigra* var. *austriaca*, *P. pinaster* and *P. longifolia*), *Cryptomeria japonica* and *Cedrus deodara*. The species growth characteristics including survival, height, diameter at breast height and also qualitative characteristics were assessed and measured after 18 years, Soil physical and chemical properties were determined and climate characteristics were identified. The results of statistical analysis showed that there were statistically significant differences between qualitative and quantitative parameters of species. Analysis of characteristics showed that Loblolly pine (*P. taeda* L.) and Brutian pine (*P. brutia* Ten.) were the most promising species; in the second stage Hymalaya Cedar (*Cedrus deodara* D.Don.) and Japanes cedar (*Cryptomeria japonica* D.Don.) were promising species, respectively.

Key words: Elimination trial, Needle-leaved, Caspian forests, Survival, Height, Diameter