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Mexal, and) (Mexal and Landis, 1990)

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(Driessche, 1982

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(Stroempl, 1985)

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(Van den Driessche 1984)

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Thompson (1985)

(Duryea, 1985)

(Mexal and Landis,1990)

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(Stroempl,1985)

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Burdett, *et. Al.*).

(1983

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(Richard, 1980)

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(Pawsey, 1972)

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South (1987)

Mexal and South (1991)

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.(Schmidt-Vogt, 1981)

Lopushinsky and Beebe (1967)

(1954)

.(South 1987)

Wakeley

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The grading of *Alnus glutinosa* and *Acer velutinum* seedlings in *Shanderman* and *Safrabasteh* forest nursery in *Guilan* province.

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Abstract

Seedling grading is one of the main aspects of producing good quality seedling in forest nursery. It is obvious that good quality seedlings would have highly survival and performance in field after out planting. This study was conducted to grade *Acer velutinum* and *Alnus glutinosa* seedling in *Shanderman* and *Safrabasteh* forest nurseries in *Guilan* province. For each species, 100 seedlings were selected randomly from seedbed. Collar diameter, height, number of root and leaf area of seedlings were measured. The results indicated that there was significant correlation at 1% level, between collar diameter with number of roots, leaf area and seedling height. Furthermore, it is cleared that the seedling could be graded by collar diameter in four classes. Suitable collar diameter for *Alnus glutinosa* and *Acer velutinum* were 6 – 8 mm. and 10 – 14 mm, respectively.

Keywords: *Acer velutinum*, *Alnus glutinosa*, seedling grading, collar diameter