A New Record of Monumental Yew Tree In Zonguldak Region

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Abstract: The field is in Davis’ A4 square system in Zonguldak province, in 41° 25' 58.5" N, 31° 50' 26.6" E coordinates, in the Euro Siberian Flora (Euxine). This Taxus is endangered because of the stand conditions and forestry activities.

Key Words: Taxus, Monumental Tree, Zonguldak

Introduction:

The first data belong to monument trees in our country are recorded by Ali Riza Mardin [2] and these data are about Platanus in Sultanahmet and Büyükdere in Istanbul. The first data of Taxus belong to Taxus whose heights are 19, 21, 22 m and whose diameters are 194, 143, 116 cm in 19th section of Karabük (Yenice)-Kavaklı Region. It is also known that there are also some other records as small groups or individual in Hatay (Amanoslar), Çanakkale (Kazdağları), Denizli (Akdağ), Gümüşhane (Kürtün), Sinop (Ayancık), Düzce, Bolu, Kirklareli (Demirköy) ve Rize (Çamlıhemşin) (Aksoy, 1998; Aksoy, 1982).

Materials and Methods:

As our country has rugged and mountainous areas in general it can be said that there are still a lot of inaccessible places and forests. Therefore, it should be taken into consideration that floristic richness of our country has a number of monument trees waiting to be discovered. During the fieldworks it has been identified that the species which was found as an individual in an old Fagus forest is Taxus baccata L. The field is in Davis’ A4 square system in Zonguldak province, in 41° 25' 58.5" N, 31° 50' 26.6" E coordinates, in the Euro Siberian Flora (Euxine) (Davis, 1965-1985).

Findings:

The height of this individual tree has been identified by using Blume-Leiss altimeter. The diameter of the tree in 1,30 m. height was measured with the sensitivity of cm. Then, the identified circumference values were divided into \( \pi (3,14) \) and the diameter of the tree was founded.

The height of the tree: 17 m
Circumference: 178 cm
Diameter: 57 cm
Top width: 8 m
Altitude: 195 m
Aspect: North West

It is guessed that the tree is 400 years old. Its stem is smooth and healthy. The first branching starts from 170 cm. In the middle and upper parts of the tree there is a density of
branching (Figure 1, 2, 3).

![Figure 1: Density of branching](image1)
![Figure 2: Seed and arillus](image2)
![Figure 3: Leaf and yellow branch](image3)

Other plants found there at 400 square meters area included *Fagus orientalis* Lipsky, *Sorbus torminalis* (L.) Crantz, *Tilia platyphyllos* Scop., *Castanea sativa* Mill., *Laurus nobilis* L., *Rhododendron ponticum* L., *Hedera helix* L. and *Pteridium aquilinum* (L.) Kuhn. Minimal Monumental Point (MMP) is 40 for *Taxus* (Genç & Güner, 2001). The MMP for this recorded tree is shown in the Table 1.

<table>
<thead>
<tr>
<th></th>
<th>MMP</th>
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<tbody>
<tr>
<td>Height</td>
<td>17 m</td>
</tr>
<tr>
<td>Diameter</td>
<td>57 cm</td>
</tr>
<tr>
<td>Top width</td>
<td>8 m</td>
</tr>
<tr>
<td>Age</td>
<td>400</td>
</tr>
<tr>
<td>Location</td>
<td>Forest</td>
</tr>
<tr>
<td>Other Positive Points</td>
<td>Possible to protect, healthy</td>
</tr>
<tr>
<td>Total MMP</td>
<td>51 p</td>
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</table>

**Conclusion and Discussion:**

Today, there is a pressure on forest areas and it has a number of negative impacts. Especially in the production, the minor species are not taken into consideration. Thus, it is caused damage to thousands hectares of forest each year in the production of wood for the need for industrial raw materials. This recorded *Taxus* is endangered because of the stand conditions and forestry activities. According to MMP, this tree should be registered as a “Monumental Tree” as it has smooth, well rounded and healthy stem. So, it is suggested that it should be registered officially as a monumental tree by taking in situ conservation precautions.

**References:**