■ 研究発表論文

淡路夢舞台花木林苑でのハナミズキ植栽環境の把握及び土壌改良による樹勢回復の可能性

Investigation of the *Benthamidia florida* Planting Environment and Possibility of Tree Vigor Recovery Based on Soil Improvement in Kabokurinen, Awaji Yumebutai

高梨　智子*　大藪　崇司**　藤原　道郎**　山本　　聡**　小野由紀子***　上田　博文****
Tomoko TAKANASHI　Takashi OYABU　Michiro FUJIHARA
Satoshi YAMAMOTO　Yukiko ONO　Hirofumi UEDA

Abstract：There are a large number of examples poor of growth of trees in Kabokurinen of Yumebutai (34° 33′ 30.4" N, 135 ° 0′ 30.7"E) north AWAJI-island in Hyogo. (Original planting was in 1998) It is necessary to investigate the cause of poor growth and to relate to future management plan. Therefore, the weather stations were set to establish the environment of the planting sites. Tree growth factors (height, canopy spread and girth) and soil (moisture, temperature and electric conductivity) were measured. Soil amending work was also carried out to recover the vigor of *Cornus florida*, over 2 months period, photosynthetic rates were measured to assess effect of soil amending work. Results show that, a large improvement was suitable for a poor water area. The other way around a small improvement was suitable for a rich water area. It is important for management to consider these factors.

Keywords: *Awaji Yumebutai, Kabokurinen, soil improvement, maximum photosynthetic rate(Pmax), management system*
キーワード：淡路夢舞台，花木林苑，土壌改良，最大光合成速度，維持管理