

Growth Characteristics of *Pinus densiflora* on Air Temperature in the Baekdudaegan Area

Dong-Jin Seo¹, Hee-Gon Kang¹, Hak-Yun Kim¹ and Jong-Kab Kim^{1*}

¹*Department of Forest Environmental Resources, Gyeongsang National Univ., Jinju 660-701, Korea(Institute of Agriculture & Life Science)*

It was surveyed the growth changes of *Pinus densiflora* leaves from March to September, 2010 in Taeback area(8.6), Bongwha area (9.8), Kimchen area(11.4), Namwon area(12.3) and Goeje area(14.0) of warm temperature forest area, which had a difference more than 1 of annual average temperature in order to find relationship between growth process of *P. densiflora* leaves and temperature in Baekdudaegan area. Leafing day was late about 20 days in Taeback area comparing with Goeje area but The finishing time of leafing was similar. The intervals of completion of leafing were 69 days in Taeback area, 70 days in Bongwha area, 78 days in Kimchen and Namwon area, and 88 days in Goeje area. It was the shortest as 6.7cm of leaf length in Taeback area, and grew in the order of 6.9cm in Bngwha area, 8.5cm in Kimchen area, 9.4cm in Namwon area and 9.7cm in Goeje area. The first growth of leaves was started in early May over 7 of minimum temperature and over 11 of average temperature, and the growth was increased in late May and early June.

Acknowledgment : This study was carried out with the support of 'Forest Science & Technology Projects (Project No. S211011L020120)' provided by Korea Forest Service.

* Corresponding Author : jkabk@gnu.ac.kr