





<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > <u>Abstract</u>

ONLINE ISSN: 1349-1008 PRINT ISSN: 1343-943X

Plant Production Science

Vol. 12 (2009), No. 1 116-123

[PDF (533K)] [References]

Comparison of Growth and Grain Yield of Spring Wheat in Lhasa, the Tibetan Plateau, with those in Sapporo, Japan

Shigeto Fujimura¹⁾, Peili Shi²⁾, Kazuto Iwama³⁾, Xianzhou Zhang²⁾, Jai Gopal⁴⁾ and Yutaka Jitsuyama³⁾

- 1) National Agricultural Research Center for Tohoku Region, National Agriculture and Food Research Organization
- 2) Institute of Geography Science and Natural Resources, Chinese Academy of Sciences
- 3) Division of Bioresources and Product Science, Hokkaido Univ.
- 4) Division of Crop Improvement, Central Potato Research Institute

(Received: May 1, 2007)

Abstract: The Tibetan Plateau is one of the highest cultivated regions in the world. The objective of the present study was to compare wheat growth and grain yield in the high altitude region with those in a low altitude region. Two spring wheat cultivars were grown for two years at an experimental field in Lhasa (29°N, 3688 m above sea level) in the Tibetan Plateau in 2001 and 2003, and in Sapporo (43°N, 15 m above sea level), Japan in 2002 and 2003. In Lhasa, temperature throughout the growth period was lower and photoperiod before heading was shorter than in Sapporo. There was no significant difference in grain yield between Lhasa and Sapporo. Dry matter production was higher in Lhasa than in Sapporo. The crop growth rate before heading was similar in both locations, but the time to heading was 15 days longer in Lhasa than in Sapporo. Leaf senescence was more decelerated in Lhasa than in Sapporo. These results suggested that high dry matter production in Lhasa was mainly due to the longer growth period.

Keywords: Dry matter production, Grain yield, Temperature, Tibetan Plateau, *Triticum aestivum* L., Wheat

[PDF (533K)] [References]

Download Meta of Article[Help]

RIS

BibTeX

To cite this article:

Shigeto Fujimura, Peili Shi, Kazuto Iwama, Xianzhou Zhang, Jai Gopal and Yutaka Jitsuyama: "Comparison of Growth and Grain Yield of Spring Wheat in Lhasa, the Tibetan Plateau, with those in Sapporo, Japan". Plant Production Science, Vol. 12, pp.116-123 (2009).

doi:10.1626/pps.12.116 JOI JST.JSTAGE/pps/12.116

Copyright (c) 2008 by The Crop Science Society of Japan









Japan Science and Technology Information Aggregator, Electronic
JSTAGE

