

cut plants, dry matter production rates during the second period was higher in the plot given less fertilizer during the first period. This strongly suggests that a compensatory growth occurred in the second period due to the fertilizer deficiency in the first period. Such compensatory growth may have resulted from the stimulation of daughter tiller production and leaf growth of each tiller, which in turn brought about a higher LAI and net assimilation rate in the plot given less fertilizer in the first period. **Keywords:**

period) and from April 15 to May 25 (the second period). In addition, similar treatment and observation were made in the pot trial in 1993. As the direct effects of the ferfilization at the beginning of the first period, tiller production, the leaf extension rate, leaf area index (LAI) and the dry matter yield of the aerial part decreased along with the fertilization fate. However, for both non-cut and

Compensatory growth, Dry matter yield of aerial part, Fertilization, Leaf area index, Orchardgrass, Tiller number

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