

high temperature in the glasshouse. During the active growing period from April to September, a large amount of nitrogen was partitioned to the leaves, especially to the sprouting shoots. On the contrary, a large part of the absorbed nitrogen stayed in the roots during the dormant period from November to February. After the bud break, the nitrogen temporally reserved in the roots was translocated to the first flush shoots. Contribution of nitrogen absorbed at each month to the first flush shoots, which was evaluated by the isotope dilution technique, was low during the spring to summer months of thc preceding year, then gradually increased during autumn to winter months. The contribution further increased in early spring months of this year. Sum of the contribution from February to March amounted to 60%. Thus, the most recently absorbed nitrogen showed the largest contribution to the nitrogen in the first flush shoots. This means that nitrogen taken up during early spring was most effective for improving the quality of the first flush shoots. Importance of the nitrogen absorbed the year before was also discussed.

Keywords:

Camellia sinensis, First flush shoots, Isotope dilution, ^<15>N, Nitrogen, Seasonal change, Tea, Uptake of nitrogen

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