



Case Study

SPECHT ECOLOGICAL MEASUREMENT TECHNOLOGY

Berlin
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An oak tree at Breitenberg Castle Park, Itzehoe, approximately 5m from the bank of the castle lake was selected as a suitable specimen for treatment.

Before PLOCHER treatment began, the condition of the oak was very poor. Leaves had thin brown edges, were suffering from chlorosis (strong yellow colour) and the leaf surfaces were uneven and patchy. Foliage was scanty.

Climatic conditions were similar throughout the treatment periods: sunny with air temperatures between 20-23°C.

An oak tree from the tennis court area in the parkland was used as a comparison.

On 5 May 1997, both trees were measured. The oak tree at the lake displayed no oxygen production, whereas the oak by the tennis court measured oxygen production at 3.5mg/l.

Treatment

The oak tree at the lake was treated weekly with Plocher Komposter and Plocher PlantDO for two months until 3 July 1997

Result

On 3 July 1997, photosynthesis performance was re-measured for both trees. The oak tree at the lake showed an increase in oxygen production to 2.9mg/l.

Treatment was continued and on 29 July 1997, the trees were measured again. The results illustrated that oxygen production had stabilised at 2.7mg/l in the oak by the lake. The oak tree near the tennis court displayed 4mg/l—a figure comparable to the first measurement.

This demonstrates that the condition of the oak tree at the lake had almost normalized in the three month treatment period.