## LONG DAY TREATMENT OF CARNATIONS WITH VARYING LIGHT INTENSITIES

A.P. van der Hoeven Glasshouse Crops Research and Experiment Station, Annual Report, 1985. Naalwijk, The Netherlands.

For a long day treatment incandescent lamps are used with an installed capacity of 10 Watt per square meter. In order to find out what the effects are with a lower installed capacity, an experiment was set up in duplicate on 4 nurseries with the following objects: control (no lighting), 2.5, 6, 10 and 15 Watt installed capacity per square meter glasshouse. On 2 nurseries with spray carnations, lighting took place during 2 weeks in January and on 2 nurseries with standard carnations during 2 weeks in February. On all nurseries, young crops were used with planting dates in Sep-

tember and the beginning of October. Counting the number of stems at harvest demonstrated that on all nurseries a higher installed capacity (light intensity) advanced flowering. Even with 2.5 W/m² harvest was significantly earlier than without lighting. A capacity of 15 W/m² advanced flowering only slightly more than 10 W/m². An installed capacity of 6 W/m² incandescent lamps with bulb windows gave satisfactory results as far as flowering advancement is concerned.