

Care for H. B. Anderson Esq.,

H. D. A.

26 JUN 1961

21st June 1961 79

DJW/LI/79

R. A. Kennedy Esq.,  
Leaf Department (Advisory)  
MILLBANK

My dear Kennedy,

During your visit last Friday you kindly offered to compare the nutrient levels received by our greenhouse plants with those which are normally given in field culture of tobacco.

In the table below, which starts at the time of transplanting, the life of the plants is divided into six periods corresponding with changes in the nutrient level. Figures not in brackets are the total weight of nutrient, in grams, offered to each plant within each period. Figures in brackets are the rate per plant per day. The amount of nutrient actually taken up by the plants cannot be given as excess solution drips from the bottom of the pots. Accumulation of nutrient is prevented by leaching the pots with distilled water once a week.

Period	Grams per plant of:		
	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
0 - 30 days	5.0 (0.17)	15.7 (0.36)	15.0 (0.50)
31 - 41 days	3.7 (0.34)	7.8 (0.71)	11.0 (1.00)
42 - 48 days	6.7 (0.67)	10.0 (1.43)	14.0 (2.00)
49 - 55 days	2.4 (0.34)	10.0 (1.43)	14.0 (2.00)
56 - 70 days	0.0 (nil.)	21.3 (1.42)	24.3 (1.62)
71 - 79 days	0.0 (nil.)	6.4 (0.71)	7.3 (0.82)

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Harvesting to date has been as follows:

1st harvest at 63 days after transplanting

2nd	"	"	68	"	"	"
3rd	"	"	72	"	"	"
4th	"	"	77	"	"	"
5th	"	"	82	"	"	"

The intention is to cut down the rate of application of  $P_2O_5$  and  $K_2O$  still further as harvesting progresses towards the top leaves.

With kind regards,

Yours sincerely,

P. J. Wood

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C. C. H. D. Anderson Esq., Millbank