

Summary - Recommendations

In 2010 were investigated at the State School of Horticulture in Stuttgart-Hohenheim which fertilization level for pot sage (Salvia farinacea) is optimal. It looked at the variety 'Blue Emotion' from company Kientzler, potted was at week 20, the sale of maturity was reached at week 28th. The fertilizer levels were in liquid fertilization 250, 400, 600, 800, 950 and 1150mg N per 12cm pot. In addition, there were two versions with exclusive term fertilization of 500mgN/pot. There were significant differences in the sales quality, as well as in root quality. The best above-ground impression at it, gave a fertilization level of 950 mg/N. However, the root quality was not sufficient in that case. If the rooting involved, it was the best plants for an N-supply 600-800 mg N. Of the two permanent fertilizers, was Toolisan (Alphasoil) a little better than Osmocote 3-4 M (Scotts). When fertilization with Toolisan, the plants were slightly larger and the overall impression one step better scoring, but the nitrogen in the substrate was completely exhausted.

Experimental background and research question

In literature there is only little information in relation to the fertilization level in potted sage (Salvia farinacea). In the experiment should be examined, which fertilizer level for summer pot plants in a 12 cm pot is ideal. At the same time, it was examined whether a reasonable supply of long-term fertilizer is useful.

Result

plant height length flower fresh weight leave color overall impression homogeneity root penetration

1-9 9= very good

	Pflanzen- höhe	Länge Blütenstand	Frisch- gewicht	Blatt- farbe	Gesamt- eindruck	Homo- genität	Durch- wurzelung
mg N/Topf	cm	cm	g/Pflanze	1 - 9		9 = sehr gut	
250 mg	21,4	9,0	31,0	5,0	4,3	6,7	8,0
400 mg	20,0	11,6	51,5	7,0	6,0	6,0	8,3
500 mg (Osmocote)	20,2	11,2	43,6	5,0	7,0	7,0	7,0
500 mg (Toolisan)	21,6	12,6	49,2	6,0	8,0	5,0	7,0
600 mg	20,6	12,0	64,8	8,0	7,3	7,0	7,0
800 mg	19,7	12,4	64,8	8,7	8,0	7,7	6,0
950 mg	19,3	12,4	75,1	9,0	8,7	7,3	3,7
1150 mg	19,0	11,9	71,9	9,0	8,3	7,7	2,0

Culture data

Culture: Salvia farinacea 'Blue Emotion'
Potdate: Week 20
Potsize: Teku 12 cm
Substrate: Klasmann Nr. 5
Crop: Week 22
inhibitor: Regalis 0,25% Week 24
 CCC 0,15% Week 28

Temperature-control: Heat T/N 18°C/16°C
 Ventilation T/N 22/18 °C
 from Week 23 14°C/12°C
 18°C Ventilation

Sales maturity: Week 28

g/plant Fresh weight at different fertilization level

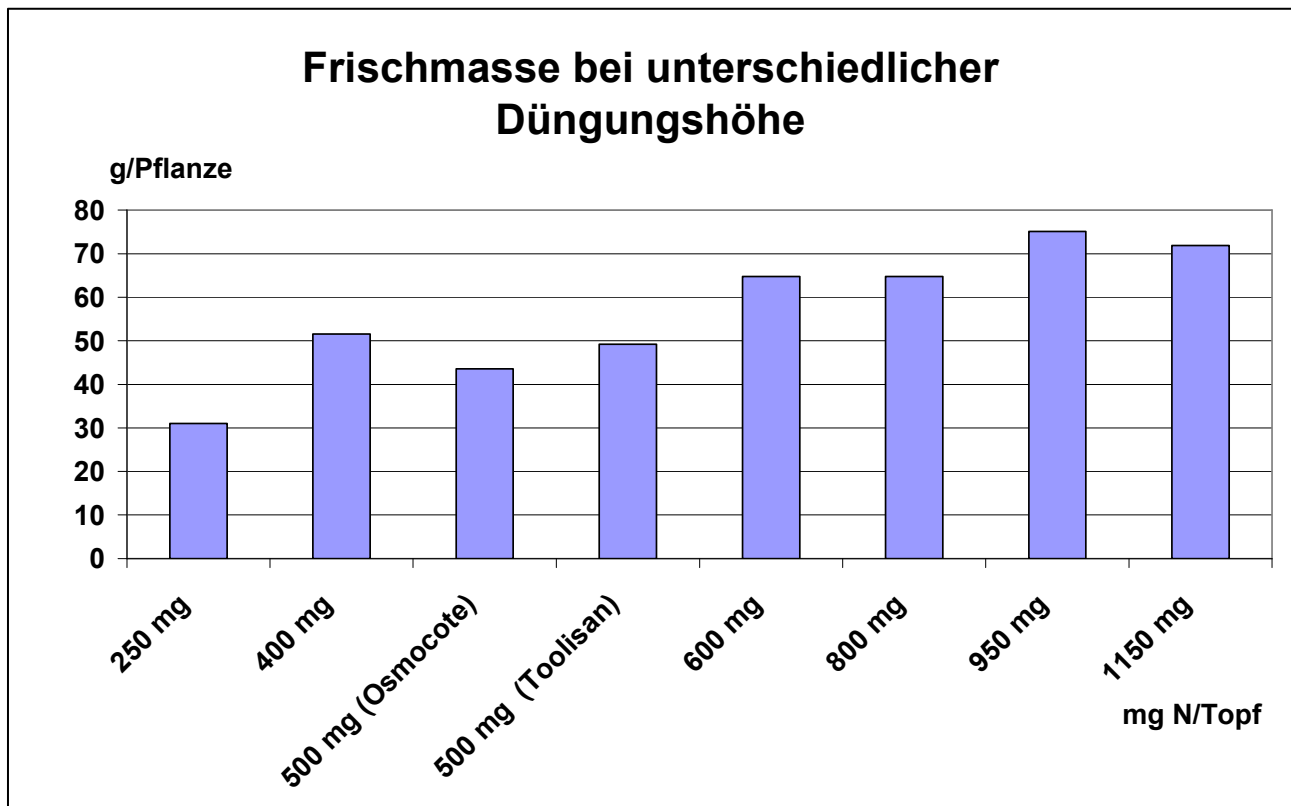


Abb. 1 Frischmasse bei Salvia farinacea 'Blue Emotion'

2010 SfG
Hohenheim

Fresh weight at Salvia farinacea 'Blue Emotion'