

Dahlia hybrida







Central Europe
North Europe



Goldalia
Midalio
Grandalia
Dahlegria

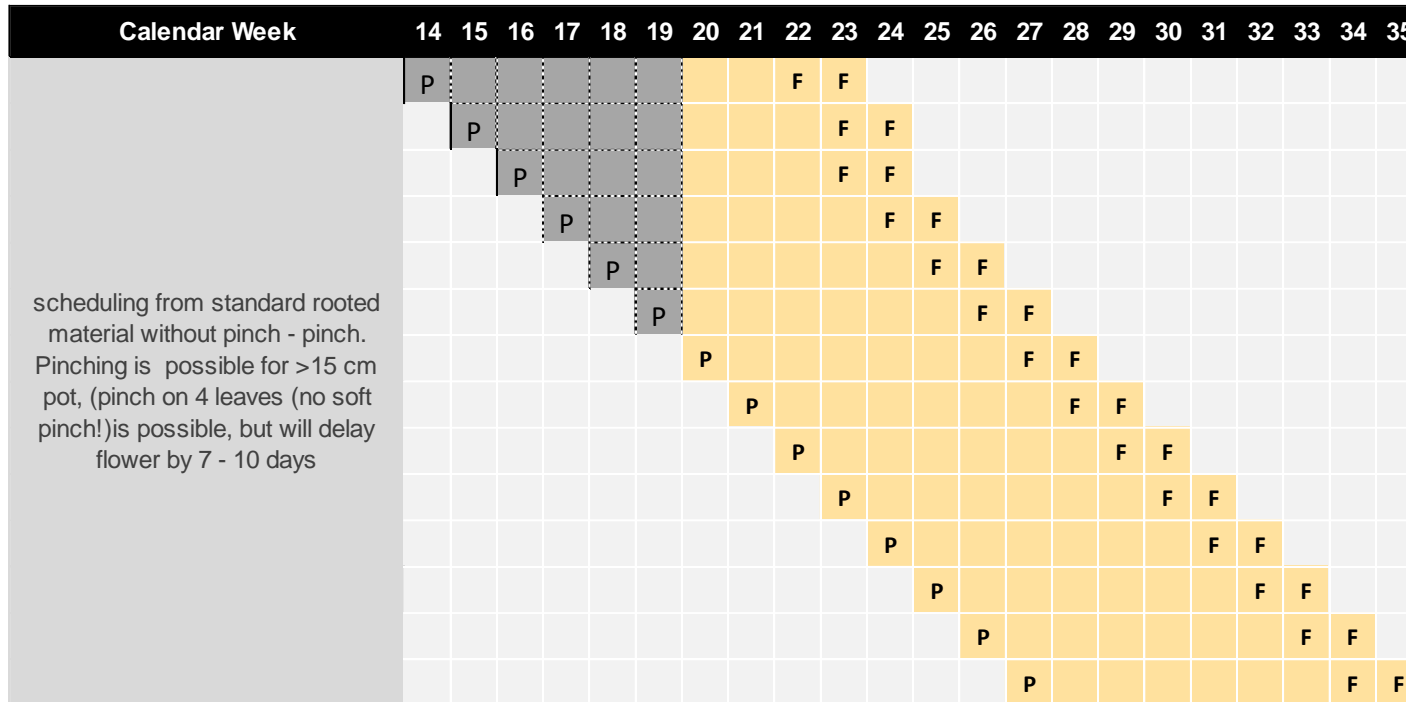
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Finished Plant Dahlia

Series 	Type 	Leaf colour 	Pot size 	Comment
Goldalia	medium	green	10.5–13 cm	pot and container market
Midalio	medium	green	10.5–15 cm	pot and container market
Grandalia	vigorous	green	12–19 cm	mainly container market
Dahlegria	vigorous	green	13–19 cm	mainly container market

Remarks

Make sure that conditions are not extreme to avoid tuber set and growth. Avoid extremely dry conditions. Both EC level and N:K ratio influence the plant performance very strong - more Potassium gives a quick flower initiation but stops growth! Nitrogen is washed out quickly, especially under wet conditions. Therefore constant feeding with a N focused fertilizer are recommended to create enough plant growth. Plant growth and flowering is regulated with N:K ratio and EC level. Protect from frost --> either greenhouse until mid May or cover with vlies



Cultivation Advice

Outdoor crops are very strongly impacted by climate conditions. Make sure that plants are protected from frost and that feeding is under control!



Fertilization & Substrate

Keep the EC level of the growing media in the range of 1.5 – 2.



Spacing

Spacing on time during the culture period is crucial to avoid stretched and uncontrollable growth



Light

Dahlia need full sun and min. 14 hours day, otherwise the plants build tubers



Irrigation

Media should be allowed to dry between irrigation. Alternate between moisture level 2 and 4.



PGR Applications

In the second week after potting start with PGR spraying Dazide or Bonzi. Depending on the serie and potsize till two times a week



Pests

Aphids, Thrips, Spider mites, leaf miner



Diseases

Botrytis, although Syngenta varieties are powdery mildew tolerant keep an eye on it



Tips & Tricks

With pinching the plants get more flowers at the same time .

Dahlia need deep and sturdy planting to provide good support and balance in the pot for the maturing plants






Recommendations

Culture guideline for outside crop:





Culture week	1	2	3	4	5	6	7	8	9
Handling				S					
PGR	P								
Temperature D/N	keep frost free								
Light	not needed								
Shading	full sun								
Humidity	50-70%								
Moisture	3-2								
pH	5,5-6,0								
EC growing medium	1,5 mS/cm	2,5 mS/cm	2,5 mS/cm	2,0 mS/cm					
EC feeding in mS/cm	2,0 mS/cm	2,5 mS/cm							
Fertilizer	N : K 2 : 1			N : K 1 : 1					

Legend







Soil moisture level

	5 saturated: water is easily observed. When the substrate is touched, water moves out freely from top to bottom.
	4 wet: water is not easily observed. When the substrate is touched, there is very little movement of water from top to bottom.
	3 moist: the substrate is black but not glistening. When the substrate is touched, there is water, but virtually no water movement.
	2 medium: the substrate turns from dark to medium brown. There is no water movement when touched.
	1 dry: the substrate changed color to very light brown.








Culture stages Cuttings / Seeds

	callus development / germ1, radicle emergence
	root development / germ2, cotyledon expansion
	leaf development / plug bulking
	plug finishing / plug finishing










EC zones feeding mS/cm

	1 0,5-1,0 mS/cm
	2 1,0-1,5 mS/cm
	3 1,5-2,0 mS/cm
	4 2,0-2,5 mS/cm
	5 2,5-3,0 mS/cm
	6 3,0-3,5 mS/cm







EC zones growing medium mS/cm (Sonneveld 1:1,5)

	1 0,5-0,75 mS/cm
	2 0,75-1,0 mS/cm
	3 1,0-1,25 mS/cm
	4 1,25-1,5 mS/cm
	5 1,5-1,75 mS/cm
	6 1,75-2,0 mS/cm
	7 2,0-2,25 mS/cm




Temperature zones

	1 0-5°C
	2 5-8°C
	3 8-12°C
	4 12-14°C
	5 14-16°C
	6 16-18°C
	7 18-20°C
	8 20-22°C
	9 >22°C

Light zones

	1 total darkness
	2 short day <12 h/short day treatment
	3 shaded
	4 no-shading / natural light
	5 supplemental light > 14 h/long day treatment
	6 night interruption

Shading

	1 shading > 250 W/m2
	2 shading > 450 W/m2
	3 shading > 750 W/m2

ST	sticking URC	PC	plastic cover
RD	root development	L	lift cover
SC₀	sowing no Vermiculite cover	G	gapping
SC₁	sowing plus light Vermiculite cover	TP	transplanting
SC₂	sowing plus medium Vermiculite cover	T	ypl transplanting
SC₃	sowing plus thick Vermiculite cover	C	cover to protect from frost
RE	radicle emergence	PGR	PGR treatment (spray)
Cot	cotyledon	PD	PGR treatment (drench) or heavy spray
M₁	mist day and night	>	pinch
M₂	mist day - dry night	DB	disbud
W	end mist	P	potting
FC	fleece cover	S	spacing
PC	plastic cover	F	flowering
		LF	leaf removal and maintenance