March 20/45

Exp (X) Compare growth strat seed, strat embryos and unstrat embryos

Continuous Temp →	25 (1)	18 (2) 87°F	51 50V (3)	78 (1)	17 (2) 61°F	65 65V (3)	78 (1)	46 45°F (2)	49N (3)	26 (1)	16 33°F (2)	30 48V (3)
Date	Strat. embryo	non strat embryos	strat seed	← Start seed		Strat seed			Strat seed			Strat seed →
Mar 20 2:30PM	25 1/4"	0 —	32 1/8"	28 1/8"	0 —	25 1/8-3/8	0 —	0 —	0 —	0	0	0
" 21 noon	25 3/4"	18 1/2"	40 3/4"	28 3/8	17 3/16	65 3/8"	0 —	0 —	0 —	0 —	0 —	0 —
" 22 3PM	25 1/4	18 1"	40 1 1/4	28 5/8	17 1/2	65 5/8	T —	0 —	0 —	0 —	0 —	0 —
" 23 " "							11 1/8-3/4	0 —	6 1/8-1/4	0 —	0 —	0 —
26 3PM	—	(end)	—	—	ends	—	28 1/8-3/4	T —	15 1/2-1"	0 —	0 —	0 —
Mar 31 14							end	43 cutting	17 35	40% curving	0 —	0 —
April 4 15	Important 1st days response							6 " 31	22 43		0	1
" 6 17								9 1/4" 56	25 51	73	0	
" 9 20	↑							11 3/8 69	27 55	19 1/8-3/4	0 —	4 1/8-3/4
" 11 22	Strat embryos turn pink a few hours after growth starts										0	
" 13 24								14 88	27 55		0	
" 16 27								15 94	28 56		0	
" 18 29								16 1 1/4 100		-92	0	
" 19 30	seed							end		24 to 3/8	0 —	11
↓ non strat ↑	soaked 5 hours and then embryos excised.											
" 20 31									33 67			
" 23 34									40 82			
" 26 37									46 94			
" 30 41									49 100			
May 2 43										26 av 1/2"		20
" 7 48									end	end.	0 —	22
" 14 55											8 curving 1/16	32
June 4 76											16 av 1/4" end.	48 3/8-1/2 end

Note. Exp. x

Seeds strat 36°F till Feb 8 3PM enclosed in tt air tight and placed at 66°F for 3 days – No germination Then cork removed to let air in about 90% ger.

Seeds strat @ temp. of 80°F and above (constant temp) often swell – cotyledons and root grow just enough to break nucellus layer Then germination takes place. This also applyes to seeds held at lower temps. Develops over a period of several days or weeks.

Fully strat seeds show no signs of swelling but are conditioned for rapid growth at 60 to 70°F.

399

Note V 44°F 385V 260 97% Ger @ 50°F roots 1/8 to 1½"

April 14 375 ← all very healthy full recovery from dormancy condition (see subject at high temps)