

Temperature

Study Seed Germination in H₂O 3" @ different temps
Exp H 70 Sus. Sun Seed

1970	Temp °F					Days treat went
	59	68	77	86	95	
	(25)	(75)	(75)	(75)	(75)	
Jan 26 2:40P						
" 29 3:30P	←	Into temps & H ₂ O				
		No growth @ any temp				(3)
Jan 29 3:30P		Above seeds excised				
		<u>Per cent germination (normal)</u>				(4)
Febr. 7	100	68	28	4	0	

In Water

(tips)

Exp H Germination strat seed @ temps 59°F - 95°F

In Water 3" ^{50s Sem.}

1970 Date	Time of day	Germination					Germination time Days
		59°F	68°F	77°F	86°F	95°F	
		No Germ % <u>25</u>	No Germ % <u>25</u>	No Germ % <u>25</u>	No Germ % <u>25</u>	No Germ % <u>25</u>	
Jan 26		Into 2:30 P	Into 2:35 P	Into 2:40 P	Into 2:45 P	Into 2:50 P	<u>0</u>
" 27	{ 10:30 A	No growth	No growth	No growth	No growth	No growth	{ <u>.75</u>
" 28		{ 11:00 A	No growth Moulded	No growth Moulded	No growth Mouldy	No growth Mouldy	
						Very mouldy Less mouldy than 86°F Diff organ-isms.	
Results no grow in water at any temperature These were then excised to determine viability							
" 29		Excised 3:15 P	Excised 3:20 P	Ex 3:30	Ex 3:35	Ex 3:45	
Growth or germination							
" 30	11:15 A	All 25 growing Ave 5 mm radicals	All 25 growing Ave 6 mm radicals	19 growing Ave 3 mm	13 growing Ave 2 mm	3 curving	
Febr 1	{ Imp. ✓	All growing Most healthy Prob best germ Temp <u>63°F</u> Check this	8 abnormal 17 normal but not as good as 59°F	Only 6 normal	All alive but abnormal stunted, prob will die	6 cut to 5 mm All stunted, glassy abnormal & will die 14 did not grow at all	
Febr 2		" "	6 abnormal 19 normal	18 abnormal stunted, glassy root tips injured 7 "about" normal	{ 24 abnormal " " " " " " 1 "about" normal	All abnormal and about dead	
			End	End	End	End	End