

Experiment

JP 29°F Strat

#2

Mounds

Date	Time of day	Germ. time (days)	No.	Tips		Germination			No. of days
				Cum.	%	No.	Cum.	%	

Sample **3** (65) (85% 54 55 V) ex. **72**

Apr 13 9AM out worked → 60°F 0 0

14 10AM 1 4 4 1mm left

17 8AM 4 (36) 60% root tip injury stunted. 75 79 out

24 1PM 11 Back out 7 36 65% **(67%)**

30 ~~7 41~~

May 1 9AM 5 41

2 8AM 7 43

3 0 43

4 1:noon 0 43

Sample **4** (57) (54) **90**

May 1 9AM 0 out worked → 60°F 0 0

2 8AM 1 0 0

3 8AM 2 3 3 Healthy

4 1:noon 3 17 15

7 8AM 6 (4) 1 16

9 8AM 9 2 18 Root inj. stunted

From excise Healthy up } 23

1-6mm is dead } 8

6 } 6

84% (End) **120**

Abnorm Del

Sample **5** (55) (40 V) **120**

June 1 10AM 0 out Into germ. Slightly moist. Mildewed Apparently seed coats not frozen.

4 8AM 3 (73) Many very healthy New dish → 32 32 to 35mm

5 8AM 4 " " " (5 37 left dish

7 8AM 6 (9) All healthy → 7 39 all out

8 8AM 7 1 40

11 10 7 42 89%

(End) 91% **91%**

Date	Time of day	Germ. time (days)	Tips			Germination			No. of days
			No.	Cum.	%	No.	Cum.	%	

Jan 31/73 11AM Into 29°F

Sample 6 Last (66) (167)
 July 17/73 10AM Out 29°F Watted Into 68°F
 Seed all dried out. Several tips
 Three germinated 1mm 3 3 Left
 " 18 9AM 21V 27 25 to 5mm left
 3 RT injury 3
 17 (41)

Norm Abner Gold Del

Sample 6 Last (64) (52V) (167)
 July 17 10AM out watted Into 68°F - -
 (41) 25 25
 19 (34) { 5 Root tip injury out 30
 14 excised 5 viable 9
 15 tips 2NV 3 viable 10
 20 49

87%	Sample	()	()	()
Germ (64) (52)	0	N	Germination	
40	77%	Viable 52	58	84
Root tips inj. killed 6	17%	Germ 49	52	94 %
		Non viable 6		
		RT injury 6		
		Total 64		

Note Viability of untreated seeds 87%
 " " treated (strat 29°F) seeds 83%
 Conclusion 4% killed at 29°F

29°F strat #2

July 19	17 germs July 18	} Healthy v. g.	
" "	13 30		
" "	5 root tip injury		out
	14 excised	lost	
	(15) tips	lost	
	Total 64		
" 20	(5) - 1 root tip injury	germ com	out
	3 normal - lost	10 10	
	(14) excised above		
" 20	(5) Non viable	9 9	

Note Root tip injury prob due to freezing

Summary	(64) germs	Frag 1 (64)
Healthy	49	Healthy 52
Non viable	6	Root tip inj. 6
Root tip injury	6	Non viable 6
Lost	3	
	64	64

Result: About 11% seeds killed @ 29°F
The rest conditioned healthy.

30
1189
54/50
52
80
52
280