

# Pinus lambertiana

(72) (68V) ← Max if These germ

July 27/71  
78

Healthy  
"

3 decayed empty  
1st unger

No Com

55

55

to 28mm

7

62

4

66

4

2

Experiment

## PL No 4 strat 40°F (A) Plastic jar

Date	Time of day	Germ. time (days)	Tips			Germination			No. of days
			No.	Cum.	%	No.	Cum.	%	
Mar 10	8AM		Seeds into 40° strat 10/ Acadia Use 10 seeds per sample						start ①
			Sample ① ( 11 ) ( )						⑦
Mar 17	8AM	0	out strat			0	0		
	19					0	0		
	27	10				0	0		
	28	11				0	0		
Apr 3		17				1	1	left	
	10	24				0	1		
			(End)						
			Sample ② ( 19 ) ( )						⑭
Mar 24	9AM	0	out strat			0	0		
	27	3				0	0		
Apr 3	9AM	10				0	0		
	11	18				0	0		
	17	24				0	0		
			(End)						
			Sample ③ ( 11 ) ( )						⑳
Apr 3	9AM	0	out strat			0	0		
	10	7				0	0		
	11	8				0	0		
	17	14				0	0		
			(End)						



Experiment

## PL No 27 Strat 40°F (B) Sand

Date	Time of day	Germ. time (days)	Tips			Germination			No. of days
			No.	Cum.	%	No.	Cum.	%	
Mar 10	8AM		Seeds into strat 40°F 101 Acadia Take 10 seeds per sample						Strat ①
		Sample ①	( 10 )						⑦
Mar 17	8AM	0				0	0		
" 25	8AM					0	0		
" 27		10				0	0		
" 28	9AM	11				0	0		
" 30		13				2	2		
Apr 3						0	2		
" 10		24				0	2		
			(End)						
		Sample ②	( 11 )						⑭
Mar 24	9AM	0	out strat			0	0		
" 25	8AM					0	0		
" 27	8AM	3				0	0		
" 30		6				0	0		
Apr 3	9AM	10				0	0		
" 10	9AM	17				0	0		
			(End)						
		Sample ③	( 11 )						⑳
Apr 3	9AM	0	out strat			0	0		
" 10	9AM	7				0	0		
" 11	10AM	8				0	0		
" 17		14				0	0		
			(End)						



# PL Check @ 68°F (Plastic tub) ✓ no sand.

Days 0 Seed wetted and into 68°F (front room 1084011) on Mar 21 11AM

Days	Date	Time	Germin	%	Notes
19	Apr. 9	10AM	1	1	left
	" 17	9AM	2	3	out
	" 12		1	4	"
	May 1	9AM	5	9	"
	" 2	9AM	3	12	"
	" 10	3PM	1	13	Left
	" 17	10AM	0	13	out

## Excised and into 40° strat

Seed from Plastic Jar (A)

Date	Time	Temp	Observations
April 11			Excised (X) Complete (X) Left in 1/2 endosperm
" 30			out strat Into 60°F Cotyledons spreading Both
May 1	9AM	At 60°F	Cots spreading yellow
" 2	9AM		Cots spreading yellow
May 17	10AM		No growth, Root growth inhibited Cots green edge up No growth slight Hypoc elongated some

(End) Finish  
Dormancy Enzymes promoting root growth not dormant??

✓ No observation of seed in sand until end of observation of seed not in sand

Experiment

*Pinus lambertiana*

Date	Time of day	Germ. time (days)	Tips			Germination			No. of days
			No.	Cum.	%	No.	Cum.	%	
Dec 29/70 Mar 3			Into 37°F strat. in sand lab 7 out strat. Into Petri						
Mar 3	10 AM	Sample	<b>Unfiled</b> ( 10 )						
			Into germ			0	0		
7	7 AM	4	3	3	0	0			
8	7 AM	5	1	4	0	0			
9	9 AM	6	-	4	2	2		-out	
11	8 AM	8	2	6	0	2			
12	8 AM	9	0	6	1	3			
13	9 AM	10	3	9	0	3			
14	9 AM	11	-	9	2	5		AV out	
27	9 AM	24	<b>(End)</b>			0	5		<b>50%</b>
Mar 3	10 AM	Sample	<b>Filed</b> ( 10 )						
			Into germ.			0	0		
7	7 AM	0	3	3	1	1		to 2 mm	
8	7 AM	0	0	3	0	1			
9	9 AM	1	1	4	1	2		-out	
11	8 AM	3	3	7	1	3		out	
12	8 AM	1	1	8	0	3			
13	9 AM	10	0	8	3	6			
14	9 AM	0	0	8	1	6			
27	9 AM	24			0	6		<b>60%</b>	
		Sample	( )			( )			
		0							

No diff in above.