

G.S.

## Bitterbrush Germination

Fruit Petri germ

Experiment \_\_\_\_\_ Treatment Shelf 31° Location \_\_\_\_\_

Seed: Name \_\_\_\_\_ Source \_\_\_\_\_ Collection date \_\_\_\_\_

Viability: By excise % From this test %

Date	Time of Day	Germ. time (days)	Tips (No) (%)	Germination (No) (Cum) (%)	No of Days Treat.
1979					
May 31		Into 3PF			
			Sample ① ( 208 ) ( 150 ) 58 NUTR.		
July 28	9AM	00	out 31° In 59 No tips	0 0 0	
30	9AM	10	Fruit moist side @ 59° In 35°	133 133	
Aug 8	9AM	0	out 31° In 62°	0 133	
" 13	2PM	5	Very fuzzy mould	6 139	Excellent.
" 17	2PM	9	In 31°	0 139	
Nov 27	1PM		@ 68	Excise 11	
				150	End
				139	
				69	
				208	
			Sample ② ( ) ( )		
Aug 10	1PM	00	out 31° Int 68° No tips	0 0 0	Mold mould most
13	1PM	3	To 18 Ave 10am Super	129 129	Fruits
			Super light mould most		
Nov 17	2PM	7	In 31°	1 130	
Nov 17	2PM		@ 68	10 140	
			Sample ③ ( ) ( )		
Aug 31	3PM	00	out 31° In 68° All mold most	0 0 0	
			No tips		
Sept 4	8AM	4	Excellent Mold	133 133	To 7 Sun Ave 15 Sun
			mould some stifled"		
			Total @ 68 mold In 41		
Nov 1	2PM		out 41 In 68	1 134	
			Very heavy fuzzy mould		

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## Bitterbrush Germination

Seed *Patric germ*Experiment \_\_\_\_\_ Treatment Start 31°F Location \_\_\_\_\_

Seed: Name \_\_\_\_\_ Source \_\_\_\_\_ Collection date \_\_\_\_\_

Viability: By excise % From this test %

Date 1979	Time of Day	Germ. time (days)	Tips		Germination			No of Days Treat.
			(No)	(%)	(No)	(Cum)	(%)	
May 31	Indo	31°F						
July 20	9AM	0.0	Sample (1) (180) (163 V) 17NV		0	0	0	(50)
30	"	10	out 31° In 59° 20% tips		152	152		End
						11		End
					152	163		
					28			
					180			
Aug 10	1PM	0.0	Sample (2) (264) (242) 22NV (71)		0	0	0	
			out 31° In 60° 20% tips					
			Touch of light would few seeds					
13	1PM	3	Super Super Arrow straight		240	240		To 30mm Aug 15
			Light would few seeds			2		End
					240	242		
					24			
					264			
Aug 31	3PM	0.0	Sample (3) (256) (232 V) 24NV		10	10		To 0.5mm left
			out 31° In 68° All light					
			would					
Sept 4	8AM	4	@ 60° Super "S.S" arrow straight		222	232		To 35mm Aug 20mm
						0		End
					232	232		
					24			
					256			

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Bitterbrush Germination

Seed Potri germ

Experiment \_\_\_\_\_ Treatment Short 35° Location \_\_\_\_\_

Seed: Name \_\_\_\_\_ Source \_\_\_\_\_ Collection date \_\_\_\_\_

Viability: By excise % From this test %

Date	Time of Day	Germ. time (days)	Tips		Germination			No of Days Treat.
			(No)	(%)	(No)	(Cum)	(%)	
May 31			Into 35° in Tobacco can		(19)			
July 20	9AM	0	Sample (1) (161) (144) 17NV (50)					
			} not 35 In 59° 90% tips 8 8 To 2mm Ave 1mm					
			} Extremely heavy white mould.					
30	8AM	10	not 59° 179 137				End	
					7		End	
					144			
			137					
			24					
			161					
Aug 8	8AM	0	Sample (2) (214) (189) 25NV+7T					
			} Term 120 To 2mm Ave 10					
			} These taken from top layer of seeds in can Tips 20 140 To 0.5 Ave 0.75					
			} All seeds heavily clothed with white fungus					
			} Can 5" dia 5" deep					
			} Filled 4" deep 179					
"	10	1PM	39 179 Super					
"	13	2PM	716 4 184 Ex:					
"	17	"	To 31° 1 185					
Aug 8	8AM	0	Sample (2) (329) (282V) 47NV+7T					
			} Term 52 To 18 Ave 12mm					
			} These taken from bottom of can All seeds white fungus To 10 Ave 6mm					
			} as in (2) slight difference To 11 Ave 7mm					
			} in conditioning and germ of To 4 Ave 3mm					
			} seeds in top and bottom of To 1 Ave 0.5mm					
			} Can. 20 40 202 Tips not at dish					
Aug 10	1PM		25 247 Super					
"	13	2PM	1 248 "					
"	17	2"	In 31° 1 249					



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Bitterbrush Germination

Fruit Petri 90mm  
 shot in quart jar

Experiment \_\_\_\_\_ Treatment Shoot 35° Location \_\_\_\_\_  
 Seed: Name \_\_\_\_\_ Source \_\_\_\_\_ Collection date \_\_\_\_\_

Viability: By excise % From this test %

Date	Time of Day	Germ. time (days)	Tips		Germination			No of Days Treat.
			(No)	(%)	(No)	(Cum)	(%)	
May 31	3PM		Into shoot 35°					
July 20	9AM	0 0	Sample (1) ( ) ( ) out 35° To 59° No tips 0 0 0					
July 30	8AM	10	@59° In 35° 158 158					
			superior to 40°					
Aug 8	9AM	0	out 35° In 68°		1	159	Left	
" 13	2PM	5	Excellent		5	164		
" 17	2PM	9	In 31°		4	168		
Nov 7	2PM		@68°		8	176		
" 27	1PM		@68° after 41 Ex.		4	180		
			Sample (2) ( ) ( )					
Aug 8	9AM	0 0	out 35° In 68°		2	2	Left	
			light mould fruits transferred to Petri dish container and wetted lightly					
10	1PM	2	Super Super light mould		99	101	To 18 Aug 12mm	
13	2PM	5	Hy 6337 mould		6	107	Excell.	
17	"		Into 31°		7	109		
Nov 7	2PM		@68°		16	125		
			Sample (3) ( ) ( )					
Aug 31	3PM	0 0	out 35° To 68° Mod		66	66	To 8mm Ave 3mm	
			mould Super super					
Sept 4	8AM	4	@68° Super 1 to 4		79	145	To 3mm Ave 15mm	
			mould 6337 To 40					
Nov 1	2PM		out 40° In 68°		6	151	Super Super	
			Exceeding heavy 6337 mould (white grey)					





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Bitterbrush Germination

Growth at

Experiment Wheeler G.S. Treatment 35°F strat Location \_\_\_\_\_

Seed: Name Washed Source \_\_\_\_\_ Collection date \_\_\_\_\_

Viability: By excise % From this test %

Date	Time of Day	Germ. time (days)	Tips		Germination			No of Days Treat.
			(No)	(%)	(No)	(Cum)	(%)	

May 31 Into 35°F in 1 lb. tobacco can ~~(18)~~

Sample only (Seed)

Oct 31 1PM out 35°F Seeds measured for instant growth

Ave length <sup>longest</sup> roots 40 to 45 mm

Germination % 100% of viable seeds

All super super vigorous

Moderate <sup>heavy</sup> mould white-light green

Sample only (Fruits)

Treated as seeds above

Ave length longest roots 20 mm

Germination - close 100% viable

Moderate to heavy mould White light green

Germination Fruit.

Sample only

Oct 31 1PM out 35°F Instant germ → 116 116 Super

(Into 68°F in Petri)

Nov 1 2PM @ 68°F 5 121

27 2PM Extremely dry Ex. 7 178

hairy fungus Body 41

LAST