

#105

Fiber

Plastic tub Bitterbrush Germination

Fruit Potri

Experiment Soil-planting pots Treatment 35°F Location Lab 2

Seed: Name Wheeler 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)	(%)		
Oct 26	8AM		Fruits into pots in Black Mt soil wetted and into strat 35°F Lab 2					299 0	
Nov 6	12noon	0.0	Sample (1) (169) (135V) 34 NU treat					310 (11)	
			Oct 35°F In 68° No tips			0	0	0	
			@68° 2% tips bulging			0	0	0	
Svs.	10	8AM	44	"	Ave 12mm superb	6	6		
SF	12	10AM	66	"	Ave 16mm "	4	10		
Bark	13	8AM	77	"	Into 40°	0	10		He moulded End
Jan	13	8AM	0	"		42	52		
Febr	21	9AM	0	"		25	77		
	77				Excise	58			
	92					135			End
	169								
Nov 13	1PM	0	Sample (2) (194) (64V) 75 G. Prod 105 NU treat			0	0	0	312 (18)
"	14	8AM	1	@68	5% tips	1	1		
"	15	11AM	2	"	Ave 8mm superb	41	42		
"	16	9AM	3	"	Ave 5mm "	15	57		
"	17	9AM	4	"	Ave 3mm "	6	63		
"	20	9AM	7	"	Into 40°	0	63		End
Febr	7	1PM		@68	25g died	1	64		
					105 NU retreat		2		
					64		64		End
					194				
Nov 20	11AM	0.0	Sample (3) (179) (151V) 28 NU			0	0	0	324 (25)
			Nov 35°F In 68° 1% tips						
			@68° To 3mm Ave 1mm			26	26		Vig.
			To 14mm Ave 6mm			80	106		superb
			To 7mm Ave 3mm			6	112		"
			To 1mm			1	113		
			To 6mm Ave 3mm			2	115		
			To 3mm			1	116		
			To 8mm Into 40°			1	117		End
Jan 12/79	9AM	0	" wt 40°			22	139		
15/	"	"	@68°			6	145		
						6	151		Superb End

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Experiment Soil fiber pot Treatment 35°F Location _____

Seed: Name _____ Source _____ Collection date _____

Viability: By excise % From this test %

Date 1978	Time of Day	Germ. time (days)	Tips		Germination			No of Days Treat.
			(No)	(%)	(No)	(Cum)	(%)	
Sample (4) (175) (142) 336 dead NV								
Nov 27	9 AM	0 0	out 35°	In 68°	10% tips	0	0	(32)
" 28	9 AM	1	@ 68°	To 7mm	Ave 2mm	51	51	
" 29	4:00 P	2	"	"	"	57	108	superb.
" 30	9 AM	3	"	"	"	5	113	
Dec 1	8 AM	4	"	"	"	3	116	
" 4	"	7	"	"	Into 40°	4	120	(End)
Jan 23	"	0	"	"	"	19	139	
						3	142	(End)
Sample (5) (207) (138) 69 60% NV								
Dec 8	8 AM	0 0	out 35°	To 68°	15% tips	0	0	(43)
" 11	8 AM	3	@ 68°	To 3mm	Ave 20	125	125	Superb +
" 12	"	4	"	"	"	3	128	
" 13	"	5	"	"	"	0	128	
" 14	"	6	"	"	Into 40°	0	128	(End)
Jan 31/79	2 PM	0	"	"	5 germ died - but v	1	129	
						9	138	(End)
Sample (6) (154) (106) 48 NV								
Dec 15	9 AM	0 0	out 35°	To 68°	25% tips	0	0	(50)
" 18	"	3	@ 68°	To 3mm	Ave 20	91	91	Superb + +
" 19	"	4	"	"	"	3	94	
						12	106	(End)
106 48 154								

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Bitterbrush Germination

Fruit germ. patri

Experiment Soil-fiber pot

Treatment 35°F

Location Lab 2

Seed: Name _____

Source _____

Collection date _____

Viability: By excise % . From this test % .

Date 1978	Time of Day	Germ. time (days)	Tips (No) (%)	Germination (No) (Cum) (%)	No of Days Treat.
Dec 28	2PM	0.0	Sample (7) (183) out 35° To 68°	24 24	To 11mm Ave 4mm (63)
			Fruit brown		
29	8AM	1	@68 Fruit dark brown	80 104	Superb. To 11mm Ave 5mm
			We mould		
Jan 2/79	8AM	5	Med. mould	16 120	
				0	
Jan 4	9AM		All remaining NV or decayed because of treat.	120	End
				120	
				63	
				183	

Date	Time of Day	Germ. time (days)	Tips (No) (%)	Germination (No) (Cum) (%)	No of Days Treat.
			Sample (8) (164)		
Jan 8	11AM	0.0	out 35° Dark brown fruits	3 3	To 6mm
9	8AM	1	@68° To 12mm	30 33	Excellent } that
10	"	2	" Black Mouldy	9 42	" " } germinated
11	"	3	" " "	2 44	" "
12	"	4	" " " To 40"	0 44	
Febr 1	"	0	" " " Hug		
				44	
				120	
				164	

Date	Time of Day	Germ. time (days)	Tips (No) (%)	Germination (No) (Cum) (%)	No of Days Treat.
			Sample (9) (173)		
Jan 15	1PM	0	out 35° To 68 25% tips	5 5	To 10mm Ave 3mm
			Dark brown. Med. cake		
17	8AM	2	@68 Dark brown Med mould	21 26	To 15mm Ave 8mm
19	"	4	" " " "	0 26	
23	11AM	8	" Prac. black	0 26	Med to Hug mould
				0	
				26	End
				147	
				173	

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Fruit

Experiment 35° Fiber Pat Treatment _____ Location Lab 2

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)	(%)	
1979								
Jan 26	11 AM		576	0	0	0	0	
			Sample 10	(188)	(13V)			23 germinated 152 HV?
29	2 PM		13	13	0	0	0	13 ok germ to 20mm
			then days	13 germ	dead also			
30	1 PM		Remaining	bleeds	dead	0	0	These in separate dish → Viability of germinated.
Total						13		End
13								
13								
162	Remaining							
188			Sample	()	()			
		0						
			Sample	()	()			
		0						

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Plastic tub
Bitterbrush Germination

Seed Petri

Experiment Soil-planting pots Treatment 35°F Location Lab 2
Seed: Name Wheeler 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)	(%)		
Oct 26	8AM		Seed into pots in soil, wetted and into 35° strat lab 2					(0)	
Nov 6	Noon	0	Sample (1) (281) (247V) 34NV out 35°F In 68° 5% tips			0	0	0	(11)
	7	9AM	1 @ 68° 10% tips (6.5mm)			0	0	0	
Sus.	10	8AM	4 " Ave 8mm superb.			46	46		
SF	11	10AM	6 " To 15mm Ave 5mm			9	55		No mould
Bark	13	8AM	7 " To 2mm Into 40°			1	56		(End) "
Dec	20	11AM	@68			181	237		Excellent
							10		
			Good viability count = GVC			247			(End)
						247			
						34			
						281			
Nov 13	1PM	0	Sample (2) (248) (176V) 726mm died out 35°F In 68° 20% tips			0	0	0	(18)
"	14	8AM	11 @ 68° Ave 2mm			4	4		
"	15	11AM	22 " Ave 7mm Ex.			106	110		No mould
"	16	9AM	33 " Ave 2.5mm "			22	132		"
"	17	9AM	44 " Ave 2.0mm "			18	150		
"	20	9AM	77 " Into 40°			6	156		(End)
Jan 12	"	0	@68 out 40°			7	163		
	15	"	" 72.6mm to 12mm Ave 4mm added 8V excise			5	168		
							8		
						168			(End)
						80			
						248			
Nov 20	11AM	0	Sample (3) (301) (269V) 32NV out 35°F In 68 30% tips			0	0	0	(25)
	21	8AM	1 @ 68° To 5mm Ave 2.5mm			85	85		Vig.
	22	8AM	2 " To 14mm Ave 4mm			153	238		Superb
	23	9AM	3 " To 5mm Ave 2mm			13	251		"
	24	8AM	4 " To 5mm Ave 2mm			3	254		
	25	8AM	5 " "			7	256		
	26	8AM	6 " 1.5mm			1	257		(End) germ
	28	"	8 " Into 40°			0	257		
Dec	11	2PM	0-3 @ 68°			3	260		
							9		
						269			(End)

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Bitterbrush Germination

Seed

Experiment Soil-fiber pot Treatment 35°F Location _____

Seed: Name _____ Source _____ Collection date _____

Viability: By excise % From this test %

Date 1970	Time of Day	Germ. time (days)	Tips		Germination			No of Days Treat.	
			(No)	(%)	(No)	(Cum)	(%)		
RA = Restricted aeration									
R.A.?									
Sample (4) (246) (203V) 43 NV.									
Nov 27	9AM	0	at 35°F In 68°	75% tips	0	0	Bulging	(32)	
" 28	9AM	1	@ 68 To 7mm	Ave 2mm	106	106			
" 29	3:45P	2	"	"	85	191		191	
" 30	9AM	3	"	"	7	198		<u>55</u>	
Dec 1	8A	4	"	"	0	198		246	
" 4	"	7	"	"	0	198	(End)		
					5		(End)		
					203		(End)		
R.A.									
Sample (5) (279) (214V) 35 NV									
Dec 8	8AM	0	at 35° In 68°	1mm 85% tips	2	2	30 sprouted but died	(43)	
" 11	8AM	3	@ 68 To 35mm	Ave 15mm	205	207	Excellent		
" 12	8AM	4	26 sprouted glassy brown. Dead?			0	207	Left in dish	
					The 76 sprouted dead.				
					The remaining prob will die. This sample poor germination.				
					By excise	7			
207	207				214		(End)		
52-6	46-7	39-35							
26	26								
205	279								
R.A.									
Sample (6) (203) (120V) 24 NV									
Dec 15	9AM	0	at 35° In 68°	1mm	5	5	59 germ died	(50)	
" 18	8AM	3	@ 68 To 35mm		100	105	Excellent		
" 19	"	4	+ 51 germ & died glassy brown. Restricted aeration			4	109		
					+ 8 " " " " " " " "				
					24 NV by excise				
					11		(End)		
					120				
120	24	59							
203									

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 Experiment 35° Fiber Pot Treatment _____ Location Lab

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)	(%)	
1979								
Jan 26	11AM	0	2		2	2	2mm left	
29	1PM				0			(S)
								End
								End
2								
69								
2								
140								
213								

← Last

Sample 10 (2/3) ()
 at 35° In 68 Black 2 2 2mm left
 Hyale Sordus-galdieri
 69 germ died out
 2 germ glassy. The rest black prob done

(S)

End
End

Sample () ()

0

Sample () ()

0