

Bitterbrush Germination

Fruit

Experiment Strat -35°F (F) Treatment Strat 35°F Location Lab 7 stand
 Seed: Name Wheeler (1974) Source Nov. Collection date _____

Viability: By excise % From this test %

Date	Time of Day	Germ. time (days)	Tips		Germination			No of Days Treat.	
			(No)	(%)	(No)	(Cum)	(%)		
1978									
Febr. 16			Fruit into soak Lab 7 @ 70°F 9AM						
" 17			2PM out soak and into 35°F						0
			Sample (1) (109) (82V) 25NV						
Febr 24	9:10A	0	out Into 68°F			0	0	0	(7)
			(Supply dry. Fruit immersed in H ₂ O 30 seconds)						
26	8:00A	2			0	0	0		
27	1PM	3			0	0	0		
Mar 1	1PM	5			0	0	0		
3	11:30	7	<u>Into 40° restart.</u>			0	0	0	(End)
May 1	3PM	0	out 40° In 68°			—	—	—	
3	2PM	2	Into 35°F			24	24		77
75	2PM	0	out Into Lab 7 24hrs			45	69		32
June 22	1PM	2	out 35° In 68° 6/21			5	8	77+5=82	(End)
			Sample (2) (98) (77V) 21NV						109
Mar 3	11:30A	0	out. Into 68°F			0	0	0	(14)
6	11AM	3			0	0	0		
8	3:30	5			0	0	0		
10	4PM	7	<u>Back 40° restart</u>			0	0	0	(End)
May 1	3PM	0	out 40° In 68°			—	—	—	
3	2PM	2	Into 35°F			20	20		76
75	2PM	0	out Into Lab 7 24hrs			45	65		72
June 22	1PM		out 35° In 68° 6/21			11	76		98
							77		(End)
			Sample (3) (154) (119V) 35NV						
Mar 14	8:30A	0	out. In 68°F			0	0	0	(25)
15	9AM	1			0	0	0		
20	12noon	6	Into 40° strat			9	9		
May 1	3PM	0	out 40° In 68°			—	—	—	(End)
3	2PM	2	Into 35°F			21	30		
75	2PM	0	out Into Lab 7 24hrs			70	100		118
June 22	1PM		out 35° In 68° 6/21			18	118		36
							1		154
							119		(End)

Bitterbrush Germination

Fruit.

Experiment 535°F Treatment 35°F 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.
Sample <u>(4)</u> (143) (106V) 37NV					
Mar. 20	12noon	0	out 35°F In 68°F	0 0 0	(31)
22	3PM	2		0 0 0	same about to break out
27	8AM	7	In 40° strat	13 13	(End)
May 1	3PM	0	out 40° In 68°	— —	
3	2PM	2	Into 35°	27 40	
75	2PM	0	out Into Lab 7 24hrs	51 91	
July 21	1PM	0	ret 33° In 68°F	10 101	(End)
				<u>5</u>	
				106	
				101	
				42	
				143	
Sample <u>(5)</u> (164) (110V) 54NV					
Mar 31	10 AM	0	out 35° In 68° 5% tips	0 0 0	(42)
Apr 4	9 AM	4		30 30	
6	9 AM	6		5 35	
7	1 PM	7	Into 40° strat	1 36	(End)
May 1	3 PM	0	out 40° In 68°	— —	
3	2 PM	2	Into 35°	49 85	
75	2 PM	0	out Into Lab 7 24hrs	22 107	
July 21	1 PM	0	ret 33° In 68°	3 110	
				<u>0</u>	
				110	(End)
				54	
				164	
Sample <u>(6)</u> (158) (104V) 54NV					
Apr 13	8:30A	0	ret 35° In 68° 10% tips	1 1	(55)
14	10AM	1		27 28	
17	4PM	4		38 66	
18	11AM	5		3 69	
20	4PM	7		7 76	
24	4PM	11	Into 33° strat	7 83	(End)
May 1	3PM	0	ret 33° In 68°	— —	
3	2PM	2	Into 35°	8 91	
75	2PM	0	out Into Lab 7 24hrs	7 98	104
July 21	1PM	0	Into 68°F	6 104	54
				<u>0</u>	158
				104	(End)

Bitterbrush Germination

This Ave 35.5°F
Fruit

Experiment 535°F

Treatment Street 35°

Location Lab 2

Seed: Name Wheeler

Source _____

Collection date 1974

Viability: By excise % From this test %

Date 1978	Time of Day	Germ. time (days)	Tips		Germination			No of Days Treat.	
			(No)	(%)	(No)	(Cum)	(%)		
								Start	
			Sample (10) (222) (181V) 41NK						
May 26	10AM	0	out 35.5° Superior 174 174 To 3mm Ave 20; out						
27	4PM	1			4	178			
June 2	1PM	7			3	181			
5	8AM	10			0	181			
					181			End	
			181						
			41						
			222						

			Sample (11) (137) (112) 25NV						
June 5	8AM	0	Superior out 35° In 68°F 112 112 To 2mm Ave 25mm						
			These in street 0						
					112			End	
			112						
			25						
			137						

last in street

			Sample (12) (163) (125V) 38NV						
June 5	9AM	0	Superior out 35° In 68° 125 125 To 4mm Ave 25mm						
			These in street 0						
					125			End	
			125						
			38						
			163						

Finished

Bitterbrush Germination

Seed

Experiment 5 35°F (3) Treatment strat 35°F Location Lab 7 Stead
 Seed: Name Wheeler (Ho) Source Nov. 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)	(%)		
January 29			Seed extracted from fruit by hand on rubber mat and ribbed rubber block						
Febr 8			Seed soaked 5 hrs Lab 7. Into strat 4PM						(0)
			Sample (1) (153) (131V) 22NV						
Febr 14	1:15P	0	Out strat		0	0	0	(6)	
	17 1:00P	3			0	0	0		
	21 4:00P	7	<u>Into 40° restat</u>		0	0	0	(End)	
May 1	3PM	0	<u>Out 40° In 68°</u>		—	—	—		
	3 2PM	2	Excised 46 24V 22NV		107	107			
						24			
						131		(End)	
					107	46			
					153				
			Sample (2) (157) (138V) 19NV						
Febr. 17	1:00P	0	Out strat		0	0	0	(9)	
	21 4:00P	4			0	0	0		
	23 4:00P	6	<u>Into 40° restat</u>		0	0	0	(End)	
May 1	3PM	0	<u>Out 40° In 68°</u>		—	—	—		
	3 2PM	2	Excised 92 73V 19NV		65	65			
						73			
						138		(End)	
					65	92			
					157				
			Sample (3) (176) (160V) 16NV						
Febr 24	9:10A	0	Out Into 68°F		0	0	0	(16)	
	26 8:00A	2			20	20		Healthy left in dish	
	27 1PM	3			13	33			
Mar 1	1PM	5			13	46			
	3 11:30A	7	<u>Into 40° restat</u>		2	48		(End)	
May 1	3PM	0	<u>Out 40° In 68°</u>		—	—			
	3 2PM	2	Excised 46 30V 16NV		82	130			
						30			
						160		(End)	
					130	46			
					176				

Bitterbrush Germination

Seed

Experiment 5 35°F (5) Treatment _____ 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 <u>(4)</u> (141) (124V) 17NV								
Mar 3	11:30A	0	Out. Into 68°F		0	0	0	(23)
6	11AM	3			71	71		
8	3:45P	5			5	76		
7	4PM	7	Back 40° restat		1	77		(End)
May 1	3PM	0	Out 40 In 68		—	—		
3	3PM	2	Excised 31 14V 17NV		33	110		
						14		
						124		(End)
	110							
	31							
	141							
Sample <u>(5)</u> (190) (168V) 22NV								
Mar 14	8:30A	0	Out. Into 68°F 500 tips		0	0	0	(34)
15	9:00A	1			60	60		
27 162	11:45A	6	Back 40° restat		103	163		
190 May 1	3PM	0	Out 40 In 68		—	—		(End)
3	3PM	2	Excised 26 4V 22NV		1	164		
						4		
						168		(End)
Sample <u>(6)</u> (200) (174V) 26NV								
Mar 20	11:50A	0	Out 35°F In 68°F		0	0	0	(40)
" 22	3:30P	2			143	143		
57 143 200	8AM	7	In 40° restat		20	163		
May 1	3PM	0	Out 40 In 68		—	—		(End)
3	3PM	2	Excised 34 8V 26NV		3	166		
						8		
						174		(End)

Bitterbrush Germination

Seed

Experiment 535°F (5) Treatment Straight 35°F 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)	(%)		
			Sample <u>(7)</u> (232) (207V) 25 NU						
Mar 31	10AM	0	out 35°F In 68° 85% tips 0 0 0						<u>(51)</u>
Apr 4	9AM	4			205	205		End	
			By excise 2V 75 NU		2				
					207			<u>End</u>	
					<u>205</u>				
					<u>21</u>				
					<u>227</u>				
			Sample <u>(8)</u> (220) (195V) 25 NU						
Apr. 6	4PM	0	out 35.5°F In 68°						<u>(57)</u>
7	1PM	1			1	1		1mm	
					182	183			
					11	194		These roots tip injury	
13	11A	7	Excised 1V 75 NU		0	194		<u>End</u>	
						<u>195</u>		<u>End</u>	
			No root tip injury evident. All roots healthy white, straight						
					<u>183</u>				
					<u>37</u>				
					<u>220</u>				
			Sample <u>(9)</u> (184) (157V) 27 NU						
April 13	8:30A	0	out 35°F In 68° 90% tips 1 1						<u>(64)</u>
14	10:00A	1			148	149			
17	4PM	4			0	157			
18	11AM	5	Excised 27 All NU		0	157		<u>End</u>	
						<u>0</u>			
						<u>157</u>		<u>End</u>	
					<u>149</u>				
					<u>35</u>				
					<u>184</u>				