

Graph H₂O (A)

Experiment Summary

Exp. *H₂O storage* Treatment: ~~strat~~ *H₂O 41°F storage*
 Seed - source, name *SCS* *98%*

Treatment details

Date

Jan 19 1944

*Into H₂O and 41°F
19*

Germination record

*Determined by
excising embryos*

Date	Sample No	Treatment (storage strat)	No. of days	No. of seeds		Germination %		Germination in treatment Percent
				Total	Viable	Tips Percents	Complete Percents	
<i>Febr 15</i>	<i>1</i>	<i>46</i>	<i>27</i>	<i>50</i>	<i>48</i>	<i>46</i>	<i>96</i>	<i>✓</i>
<i>22</i>	<i>2</i>	<i>53</i>	<i>34</i>	<i>"</i>	<i>50</i>	<i>15</i>	<i>30</i>	
<i>29</i>	<i>3</i>	<i>60</i>	<i>41</i>	<i>"</i>	<i>49</i>	<i>25</i>	<i>51</i>	
<i>Mar 7</i>	<i>4</i>	<i>67</i>	<i>48</i>	<i>"</i>	<i>49</i>	<i>29</i>	<i>59</i>	<i>✓</i>
<i>15</i>	<i>5</i>	<i>75</i>	<i>56</i>	<i>"</i>	<i>49</i>	<i>3</i>	<i>6</i>	
<i>22</i>	<i>6</i>	<i>82</i>	<i>63</i>	<i>"</i>	<i>49</i>	<i>23</i>	<i>47</i>	<i>✓</i>
<i>28</i>	<i>7</i>	<i>88</i>	<i>69</i>	<i>"</i>	<i>48</i>	<i>13</i>	<i>27</i>	
<i>Apr 4</i>	<i>8</i>	<i>95</i>	<i>76</i>	<i>"</i>	<i>47</i>	<i>0</i>	<i>0</i>	
<i>11</i>	<i>9</i>	<i>102</i>	<i>83</i>	<i>"</i>	<i>49</i>	<i>2</i>	<i>4</i>	
<i>19</i>	<i>10</i>	<i>110</i>	<i>91</i>	<i>"</i>	<i>48</i>	<i>0</i>	<i>0</i>	
<i>May 5 Last</i>	<i>11</i>	<i>126</i>	<i>107</i>	<i>"</i>	<i>49</i>	<i>0</i>	<i>0</i>	

*✓ Healthy vigorous germination
 Ebbeted seeds segmented glassy roots - drowned*

All dead at end of 90 days

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Bitterbrush Germination
SCS seed

Feb 15, 1944
A. Hormay

Effect of soaking ^{storage} in H₂O @ 41°F on germination
Into H₂O @ 41°F on Jan 19. Viability = 98

Out of H ₂ O	Lot No	Number of seeds	Germination (embryos extracted)		Tabulated.			
Date	No Days		Vigorous (small roots)	Stunted (segmented)	No germination	Non viable	seeds	
Feb 15	1	27 50	46 $\frac{90}{92}$	2 $\frac{4}{4}$	0	0	2	$\frac{4}{4}$
Feb 22	2	34 50	15 30	34 68	1	2	0	0
Feb 29	3	41 50	25 50	21 42	3	6	1	2
Mar 7	4	48 50	29 58	17 34	3	6	1	2
Mar 15	5	56 50	3 6	40 80	6	12	1	2
Mar 22	6	63 50	23 46	24 48	2	4	1	2
Mar 28	7	69 50	13 26	23 46	12	24	2	4
Apr 4	8	76 50	0 0	30 60	17	34	3	6
April 11		83 50	2 4	44 88	3	6	1	2
April 19		90 50	0 0	23 46	25	50	2	4
May	5	106 50	0 0	6 12	43	86	1	2

Effect of temp 2°F (-18°C) March 15/44

Mar	Exposure (hours)	Condition of seed			Excised embryos
		Root growth			Total
		Vig.	Stunted (segmented)	None	
15	9:30-12	0	12	0	12
	-2	0	11	1	12
16	8:30	0	7	5	12
17	8	0	0	12	12
18	8	0	0	12	12
	1.5	5	6	1	12
	1.5	6	6	0	12
	13 hours	0	7	18	25
	27 hours	0	2	23	25
	39 hours	0	0	25	25

Soaked Seeds killed in 12 to 24 hours at 2°F

Tabulated