

# Bitterbrush Seed Plumping

Exp Pump 1 Abandoned. Provided info on macrology

Exp. Pump 2      Date Jan 20<sup>th</sup> 1978      Lab      Stead Bldg

1978      Seed No ①

Time of day	Conversion number	Soaking time minutes	Length mm	Width mm	Plump Index
			Comp %	Comp %	mm <sup>comp</sup> %

Jan 20

Dry seed

6.26      370

Wet seed

9:45 A 585

0

seed into H<sub>2</sub>O

9:54 594

6.55      4.02

10:15 615

7.09      4.41

10:37 637

7.11      4.38

10:53 653

7.30      4.55

11:08 668

7.39      4.55

11:27 687

7.37      4.60

11:59 719

7.42      4.57

1:29 P 809 <sup>809</sup>

7.49      4.60

2:42 882

7.48      4.66

4:00

7.48      4.52

Jan 24

7.64      4.66

12:55 P

7.64      4.66

1:25

7.52      4.42

4.71

4.72

✓ Sum of length and width  
 ✓ Percent of dry weight.

# Bitterbrush Seed Plumping

Exp. Pump 2

Date Jan 20 1978

Lab

stead Bldg

Seed No (2)

Time of day	Conversion number	Soaking time minutes	Length mm	Width mm	Pump Index
			Comp %	Comp %	mm cum %

Dry seed

6.69

3.94

Wet seed

9:45A 585

0

seed into H<sub>2</sub>O

9:59 599

6.83

4.39

10:19 619

7.41

4.61

10:40 640

7.43

4.79

10:56 656

7.69

4.84

11:10 670

7.85

5.12

11:30 690

7.78

5.09

12:03P 723

7.72

5.20

1:33 813

8.10

5.27

2:45 885

8.24

5.25

4:05

Extraction

8.19

5.32

Jan 24

1:00 P

~~8.88~~

~~5.00~~

1:00 P

{ 8.05

{ 5.00 }

1:38 P

{ 8.05

{ 4.91 }

✓ Sum of length and width  
 ✓ Percent of dry weight.

# Bitterbrush Seed Plumping

Exp. Plump 2

Date Jan 20 1978

Lab

Steud Bldg

Seed No (3)

Time of day	Conversion number	Sinking time minutes	Length mm	Width mm	Plump Index
			Comp %	Comp %	Comp %

Dry seed

6.10

3.87

Wet seed

0

seed into H<sub>2</sub>O

9:45A 585

10:00 600

10:21 621

10:43 643

11:00 660

11:13 673

11:33 693

12:05P 725

1:37 817

2:48 888

4:08

6.67

4.33

6.78

4.50

6.94

4.75

7.04

4.60<sup>4.60</sup>

7.09

4.62<sup>4.62</sup>

7.15

4.82

7.13

4.91

7.37

4.96

7.30

4.80

7.40

4.85

Jan 24

1:40P

7.05

8.05

4.66

√ Sum of length and width  
 √ Percent of dry weight.

# Bitterbrush Seed Plumping

Exp. Plump 2		Date Jan 20 1978		Lab		Stand Bldg	
Seed No (4)							
Time of day	Conversion number	Soaking time minutes	Length mm	Width mm	Plump Index	✓	
			Comp $\frac{1}{2}$	Comp $\frac{1}{2}$	mm $\frac{1}{2}$	Comp $\frac{1}{2}$	
Dry seed			6.71	3.90			
Wet seed							
9:45	585	0	Seed into H <sub>2</sub> O				
10:04	604		7.13	4.97			
10:25	675		7.55	4.65			
10:47	647		7.53	4.75			
11:02	662		7.80	4.82			
11:15	675		7.88	4.82			
11:36	696		7.85	4.85			
12:08 P	728		7.95	4.90			
1:40	820		8.12	4.83			
2:52	892		8.27	4.83			
4:13			8.22	4.78			
Jan 24			<del>7.80</del>				
4:10 P			7.80				
<del>4:10 P</del>			7.97	4.63			
1:45 P			8.29	4.64			
			8.33				

$\frac{1}{2}$  Sum of length and width  
 $\frac{1}{2}$  Percent of dry weight.

# Bitterbrush Seed Plumping

Exp. Pump 2

Date Jan 20 1978 Lab

stead Bldg

Seed No 5

Time of day	<u>Conversion number</u>	Soaking time minutes	Length mm	Width mm	Plump Index
			$\sqrt{\frac{L+W}{2}}$	$\frac{L+W}{2}$	$\frac{L+W}{L}$

Dry seed

5.95

3.36

Wet seed

✓

Seeds into H<sub>2</sub>O

9:45A 585

0

6.48

4.13

10:07 607

22

6.81

4.29

10:27 627

42

6.87

4.40

10:50 650

65

7.12

4.38

11:05 665

80

7.22

4.40

11:20 680

95

7.36

4.41

11:38 698

113

7.43

4.42

12:10P 730

145

7.50

4.42

1:44 824

239

7.49

4.23

2:55 895

310

7.46

4.23

4:18

7.49

4.23

Jan 24

1:20P

7.49

4.23

1:55P

7.46

4.23

✓ Sum of length and width  
 ✓ Percent of dry weight.