

Soak for at least 7 hours.

(2)

new samples of seeds A

41°F
soaked
humid

GERMINATION AND GROWTH

Purpose _____

Exp. no. ML-61

Date started _____

Sample no. _____

No. days treated _____

Name _____

Date:

Time of day:

Seed treatment

Germination statistics

Total seeds used #2 100 (96V)

#3 126 (120V)

Total germinated

a) Sound _____
b) Defective 3 RTI

Total ungerminated

a) Sound (excised) _____
b) Defective (excised) 1 Damaged

Germination details

	No. of days germ.	Germ. no.	Length of:		Germ. %	Notes
			Roots (In.)	Tops (In.)		
<u>#2</u>						
May 16 1PM out		0			0	No growth
17 8 AM						20% tips
18 9 AM		17	to 1/4"		15	
19 noon		16	to 3/8		23	
20 11 AM		7	1/4		24	
26 9 AM		3	to 1/8		27	(END)
<u>#3 *</u>						
May 22 10 AM out		0			0	No growth
24 11 AM		27	to 3/16		20	2-RTI
25 11 AM		23	to 3/16		50	11-RTI
26 9 AM		4	to 3/16		54	1-RTI
29 9 AM		5	to 5/16	to 1/8	59	1-RTI
30 9 AM		2	to 3/8		61	(END)

PSW-4200-1

* Put to soak at 10 AM, should have been drained at 2 PM but were not drained until 7:30 AM 5/23/61 - awm.

(2) 40°F
 B Not soaked
 Humid

GERMINATION AND GROWTH

Purpose _____

Exp. no. ML-61 Date started _____
 Sample no. _____ No. days treated _____ Name _____

Date: _____ Time of day: _____ Seed treatment _____

Germination statistics

Total seeds used #4 (125 (114v)) #5 96 (90v)
 Total germinated _____
 a) Sound _____
 b) Defective _____
 Total ungerminated _____
 a) Sound (excised) _____
 b) Defective (excised) _____

Germination details

	No. of days germ.	Germ. no.	Length of:		Germ. %	Notes
			Roots (In.)	Tops (In.)		
#4						
May 29	11 AM	0	—	—	0	No growth
June 1	8 AM	1	to 1/8	—	1	5% tips - light mould
5	8 AM	2	to 1/16	—	3	
7	8 AM	1	to 1/8	—	4	RTI
15	1 PM	8			12	(end)
#5						
June 5	11 AM	0	—	—	0	No growth
15	1 PM	2			2	

Soak for at least 4 hours.

(2)

(2) B

41°F
not soaked
humid

GERMINATION AND GROWTH

Purpose _____

Exp. no. ML-61

Date started _____

Sample no. _____

No. days treated _____

Name _____

Date:

Time of day:

Seed treatment

Germination statistics

Total seeds used #2 110 (95V)

#3 166 (156V)

Total germinated _____

a) Sound _____

b) Defective _____

Total ungerminated _____

a) Sound (excised) _____

b) Defective (excised) _____

Germination details

	No. of days germ.	Germ. no.	Length of:		Germ. %	Notes
			Roots (In.)	Tops (In.)		
<u>#2</u>						
May 16 1:00 PM		0			0	No growth
19 noon		1	1/8"		1	curled
26 9 AM		1	1/8"		2	(END)
<u>#3 *</u>						
May 22 10 AM		0			0	No growth
25 11 AM		1	to 1/8"		1	5% tips
26 9 AM		3	to 5/16"		3	
31 9 AM		2	to 1/8"		5	2-RTI
June 1 8 AM		1	to 1/8"		6	RTI (END)

PSW-4200-1

* Put to soak at 10 AM, should have been drained at 2 PM but were not drained until 7:30 AM 5/23/61 - Ansu

(2) 41°F
 C Soaked
 wet

GERMINATION AND GROWTH

Purpose _____

Exp. no. ML-61

Date started _____

Sample no. _____

No. days treated _____

Name _____

Date:

Time of day:

Seed treatment

Germination statistics

Total seeds used #4 150 (141V) #5 137 (127V)
 Total germinated _____
 a) Sound _____
 b) Defective _____
 Total ungerminated _____
 a) Sound (excised) _____
 b) Defective (excised) _____

Germination details

	No. of days germ.	Germ. no.	Length of:		Germ. %	Notes
			Roots (In.)	Tops (In.)		
#4						
May 29 11AM		3	to 1/8	-	3	Healthy - 70% tips
30 8AM		62	to 3/16		65	
31 9AM		43	to 1/2	to 1/16	108	9-RTI
June 1 8AM		7	to 1/5		115	
15 1PM		7			172	
#5						
June 5 11AM		2	to 1/4"	-	2	80% tips
6 8AM		54	to 3/16"	-	56	
7 8AM		38	to 3/8"	to 1/16"	94	5-RTI
8		10			104	
#6						
July 3 9AM		90	to 3/8"		90	

2

C

41°F
soaked
wet

2

GERMINATION AND GROWTH

Purpose _____

Exp. no. _____

Date started _____

Sample no. _____ No. days treated _____

Name _____

Date: _____ Time of day: _____ Seed treatment _____

Germination statistics

Total seeds used #2 145 (141V) #3 119 (114V)

Total germinated

a) Sound _____

b) Defective *13 RTI RTT

Total ungerminated

a) Sound (excised) _____

b) Defective (excised) 2 decayed

Germination details

	No. of days germ.	Germ. no.	Length of:		Germ. %	Notes
			Roots (In.)	Tops (In.)		
#2						
May 16	1:00 PM	0			0	50% tips
17	8 AM	67	to 1/16"		67	
18	9 AM	40	to 3/8"	to 1/8"	107	
19	noon	3			110	
20	11 AM	9	to 3/8"		119	
22	9 AM	1	to 1/16"		120	
24	10 AM	1	to 3/8"		121	(END)
26	9 AM	1	to 1/16"		122	
#3						
May 22	10 AM	0			0	40% tips
23	10 AM	28	to 3/16"		28	
24	11 AM	30	to 1/2"		58	
"	"	3	"		61	3 RTI
25	11 AM	8	to 3/16"		69	6 RTI
26	9 AM	5	to 1/8"		74	2 RTI
29	9 AM	3	to 1/2"		77	
May 3	8 AM	4			81	(END)

(2) 41°F
D Not soaked
Wet

GERMINATION AND GROWTH

Purpose _____

Exp. no. ML-61

Date started _____

Sample no. _____

No. days treated _____

Name _____

Date:

Time of day:

Seed treatment

Germination statistics

Total seeds used #4 128 (116V) #5 122 (114V)
 Total germinated _____
 a) Sound _____
 b) Defective _____
 Total ungerminated _____
 a) Sound (excised) _____
 b) Defective (excised) _____

Germination details

	No. of days germ.	Time	Condition	Germ. no.	Length of:		Germ. %	Notes
					Roots (In.)	Tops (In.)		
#4								
	May 29	11 AM	Out	0	—	—	0	30% tips
	31	9 AM		28	to 1/4"	to 1/8"	28	
	June 1	8 AM		6	to 3/16"		34	
	2	8 AM		5	to 1/8"		39	1-RTI.
	5	8 AM		4	to 1/4"		43	
	7	8 AM		1	to 3/8"		44	
	15	1 PM					46	(end)
#5								
	June 5	11 AM	Out	0	—	—	0	60% tips
	7	9 AM		20	to 3/8"	to 1/8"	20	
	15	1 PM		17			37	(end)
#6								
	July 3	8 AM	Out	21	to 5/8"		21	

2

2
D 41°F
not soaked
wet

GERMINATION AND GROWTH

Purpose _____

Exp. no. _____

Date started _____

Sample no. _____

No. days treated _____

Name _____

Date:

Time of day:

Seed treatment

Germination statistics

Total seeds used

#2 137 (130V)

#3 133 (173V)

Total germinated

a) Sound _____

b) Defective _____

Total ungerminated

a) Sound (excised) _____

b) Defective (excised) _____

Germination details

	No. of days germ.	Germ. no.	Length of:		Germ. %	Notes
			Roots (In.)	Tops (In.)		
#2						
May 16	1:00 PM	out	0		0	10% tips
17	8:00 AM					40% tips
18	9 AM	13	to 3/16	to 1/16	13	
19	noon	8	to 3/8		21	
22	9 AM	1	to 1/16		22	(END)
#3						
May 22	10 AM	out	0		0	10% tips
23	10 AM	3	to 1/16		2	
24	11 AM	18	to 1/4		20	
25	11 AM	2	to 1/4		22	
26	9 AM	4	to 1/8		26	2-RTI
29	9 AM	1	to 3/16	to 3/16	27	1-RTI
31	9 AM	1	to 1/16		28	(END)

2

F

70°F

Not sootcat
Wet

GERMINATION AND GROWTH

Purpose Moisture level on

Exp. no. ML-61

strat-ger

Date started _____

Sample no. _____

No. days treated _____

Name _____

Date:

Time of day:

Seed treatment

April 28

1:30 PM

Started exposing wet seed at temp
strat and ger temp the same

Germination statistics

Total seeds used #1 205

Total germinated _____

a) Sound _____

b) Defective B RTI

Total ungerminated _____

a) Sound (excised) _____

b) Defective (excised) _____

Germination details

	No. of days germ.	Germ. no.	Length of:		Germ. %	Notes
			Roots (In.)	Tops (In.)		
<u>#1 (only) B</u>						
<u>May 4 10:00 AM</u>		<u>0</u>	<u>—</u>		<u>0</u>	<u>Mod. mould</u>
<u>7 11 AM</u>		<u>0</u>	<u>—</u>		<u>0</u>	<u>Mod-heavy</u>
<u>9</u>		<u>0</u>	<u>—</u>		<u>0</u>	<u>mould</u>
		<u>3</u>			<u>3</u>	<u>2 all RTI</u>
<u>May 14 1 PM</u>		<u>4</u>	<u>to 1/4"</u>		<u>7</u>	
<u>May 15 8 AM</u>		<u>0</u>			<u>7</u>	
<u>17 9 AM</u>		<u>58</u>	<u>to 1/4"</u>		<u>65</u>	<u>Heavy mould</u>
<u>17 9 AM</u>		<u>1</u>	<u>RTI</u>			
<u>19 noon</u>		<u>1</u>			<u>8</u>	<u>All RTI</u>
<u>22 9 AM</u>		<u>1</u>	<u>to 1/16"</u>		<u>9</u>	
<u>25 11 AM</u>		<u>2</u>	<u>to 1/8"</u>		<u>11</u>	<u>Heavy modd.</u>
<u>26 11 AM</u>		<u>1</u>	<u>to 1/4"</u>		<u>12</u>	<u>" "</u>
<u>29 10 AM</u>		<u>2</u>	<u>to 1/8"</u>		<u>14</u>	<u>" "</u>
<u>June 2 8 AM</u>		<u>3</u>	<u>to 1/8"</u>		<u>17</u>	<u>" "</u>
<u>5 9 AM</u>		<u>3</u>	<u>to 1/4"</u>		<u>20</u>	<u>" "</u>
<u>7 9 AM</u>		<u>1</u>	<u>to 1/4"</u>		<u>21</u>	
<u>15 1 PM</u>		<u>4</u>			<u>25</u>	<u>(encl)</u>

(2) G 70°F
Soaked
Humid

GERMINATION AND GROWTH

Purpose _____

Exp. no. _____

Date started _____

Sample no. _____

No. days treated _____

Name _____

Date:

Time of day:

Seed treatment

May 20

10 AM

Treated seed as shown above

Germination statistics

Total seeds used _____

Total germinated _____

a) Sound _____

b) Defective _____

Total ungerminated _____

a) Sound (excised) _____

b) Defective (excised) _____

121 (784)

Note! Do not disturb until June 9
Add no moisture nor make counts

No. of days germ.	Germ. no.	Length of:		Germ. %	Notes
		Roots (In.)	Tops (In.)		
June 14 2 PM	51	1"	1 1/2"	51	(end)
July 3 8 AM	8			59	
					Heavy mold

(2) H
70°F
soaked
Wet

GERMINATION AND GROWTH

Purpose _____

Exp. no. _____

Date started _____

Sample no. _____

No. days treated _____

Name _____

Date:

Time of day:

Seed treatment

May 20

10 AM

Treated seed as shown above

Germination statistics

Total seeds used _____

Total germinated _____

a) Sound _____

b) Defective _____

117

(109)

Total ungerminated _____

a) Sound (excised) _____

b) Defective (excised) _____

Note Add moisture
as needed and
make germination
counts.

Germination details

	No. of days germ.	Germ. no.	Length of:		Germ. %	Notes
			Roots (In.)	Tops (In.)		
May 22	10 AM	6	to 3/16"		6	
23	10 AM	3	to 3/16"		9	
24	11 AM	1	to 3/16"		10	
25	11 AM	4	to 1/16"		14	Very light mould.
26	11 AM	3	to 1/8"		17	2 - RTI
						1 - RTI
29	10 AM	4	to 1/4"		21	1 - RTI
June 1	9 AM	2	to 3/8"		23	Light mould
5	9 AM	1	to 3/16"		24	" "
July 3	8 AM	8			32	(end)

(2) 41°F
 A Soaked
 Humid

GERMINATION AND GROWTH

Purpose _____

Exp. no. ML-61

Date started _____

Sample no. _____

No. days treated _____

Name _____

Date:

Time of day:

Seed treatment

Germination statistics

Total seeds used #4 98 (83v)
 Total germinated _____
 a) Sound _____
 b) Defective _____
 Total ungerminated _____
 a) Sound (excised) _____
 b) Defective (excised) _____

#5 89 (77v)

Germination details

	No. of days germ.	Germ. no.	Length of:		Germ. %	Notes
			Roots (In.)	Tops (In.)		
<u>#4</u>						
May 29	11 AM	0	—	—	0	No growth
30	8 AM	19	to 1/8"	—	19	
31	9 AM	44	to 7/16	to 1/16	63	
June 1	8 AM	7	to 5/16	—	70	
5	8 AM	3	to 3/16	—	73	
15	1 PM	4	—	—	77	
<u>#5</u>						
June 5	11 AM	0	—	—	0	No growth
6	8 AM	25	to 1/8"	—	25	
7	8 AM	38	to 3/8	to 1/8	63	4-RTI
15	1 PM	5	—	—	68	