

Exp. 55 Soaked, stratified at 41°F Lab 7
LP-73 seed

Dec 20 1973

Soaking times 1hr + absorption from filter paper
4 days
Stratification @ 41°F in lab 7

Samples Soaking times $2 \times 8 = 16$

8 1hr } 100 seeds per sample
8 4 days }
total 1600 seeds

Seeds into soak Dec 20 7:45 A.
1hr soak out Dec 20 8:45 A.
4 day soak " Dec 24 7:45 A.

Financial.

Experiment *SS soaked 4 days stat @ 40°F lab*

| Date 1974 | Time of day | Germ. time (days) | Tips | | | Germination | | | No. of days |
|---|-------------------|-------------------------|------|------------|----|-------------|------|----|-------------------|
| | | | No. | Cum. | % | No. | Cum. | % | |
| | | | | | | | | | Start |
| Jan 17 | 1 PM | 0 | | | | | | | (28) |
| 18 | 11 AM | | | | | 85 | 85 | | |
| 21 | | 4 | | | | 32 | 117 | | |
| | | | | | | 7 | 124 | | |
| <p>See below</p> <p>Intro separate dish</p> <p>67 of these N+Abn.</p> <p>60 in dish out (separate) The remainder glassy, poor vig. (could grow??) Left</p> | | | | | | | | | |
| Jan 23 | 9 AM | 6 | 18 | 6dd glassy | 12 | NV nat | 6V | | |
| <p>Norm Abn Gold Del Gold</p> <p>Start</p> <p>Sample (4) (162) (150V) (34)</p> | | | | | | | | | |
| Jan 23 | 9 AM | | | | | 41 | 49 | 54 | |
| <p>Normal 41</p> <p>Abnormal 49</p> <p>Gold 54</p> <p>Del 0</p> <p>17 NV normal</p> <p>6 V by excise</p> <p>← these glassy that not at all</p> <p>144</p> <p>6</p> <p>150</p> <p>173V excise</p> <p>End</p> | | | | | | | | | |
| Jan 25 | 10 AM | | | | | 32 | | | (36) |
| 28 | | 3 | | | | 3 | 36 | | |
| | | | | | | 16 | 35 | 0 | |
| | | | | | | 35 | 52 | 35 | 0 |
| <p>(15)</p> <p>End</p> | | | | | | | | | |

4 days soak

Experiment

55 soaked, stratified @ 41°F

| Date 1973 | Time of day | Germ. time (days) | No. | Tips | | | Germination | | | No. of days |
|--------------|-------------------|--------------------------|-----|----------------------------------|-----|-----|-------------|---|--|-------------------|
| | | | | Cum. | % | No. | Cum. | % | | |
| Dec 20 | 7:45A | Into soak | | | | | | | | start |
| Dec 24 | " | Out soak and into strat. | | | | | | | | |
| | | Sample (1) | | (121) | | | | | | (7) |
| Dec 31 | 7:45A | 0 | | out strat Into 68°F | | | | | | |
| Jan 2 | 9:00 A. | 2 | | | | 72 | 72 | | | out to 15mm |
| 4 | 8AM | 5 | | { The rest excised | | 1 | 73 | | | |
| | | | | { 6 V normal | | | | | | |
| | | | | { 7 Abnorm. | | | | | | |
| | | | | { 9 NV nat. | | | | | | |
| | | | | { 76 Germ died | | | | | | |
| | | | | { 0 Dd. | | | | | | |
| | | | | 48 | | | | | | |
| | | Sample (2) | | (159) | | | | | | (10) |
| Jan 3 | | 0 | | 3 or 4 germ just | - | - | left | | | |
| 4 | | 1 | | Most (80% germ) | - | - | left | | | |
| 7 | | 4 | | { 47 NV Treat out. 2 NV Nat. out | 50 | 50 | | | | |
| | | | | { 24 Border plus others left | 17 | 67 | | | | |
| 9 | | 6 | | | | | | | | |
| 10 | | 7 | | | | | | | | |
| | | | | Normal 67 | | | | | | |
| | | | | { Abnormal 52 } | | | | | | |
| | | | | { 6 dd 8 } | | | | | | |
| | | | | Dead | 127 | | | | | |
| | | Sample (3) | | (159) | | | | | | (17) |
| Jan 10 | | 0 | | { 84 } Had these glassy left | 49 | 49 | to 12mm | | | line 5 |
| 11 | 9AM | 1 | | Many more germ (vigor)? | - | 49 | | | | |
| 14 | 8AM | 4 | | Most germ left low vigor | | | | | | |
| | | | | Normal 49 | | | | | | |
| | | | | Abnormal 37 | | | | | | |
| | | | | 6 dd 30 | | | | | | |
| | | | | Del NV Nat. 14 | | | | | | |
| | | | | 0 | | | | | | |

SS Seated 4 days Cont'd

| 1974 | | Lost | Norm Ab. | Gold | Del. |
|-------|------|--------------|----------|-------|-------------|
| Feb 1 | 9 AM | (6) | (136) | (174) | |
| | | Dish (6) | 87 | 13 | |
| | | | 11 | 19 | |
| | | | <hr/> | <hr/> | |
| | | | 87 | 11 | 23 |
| | | 3V | | | |
| | | 12 am viable | | | |
| Feb 1 | 9 AM | Dish (7) | (132) | (119) | |
| | | | 61 | | |
| | | | 27 | 29 | |
| | | | <hr/> | <hr/> | |
| | | | 61 | 27 | 29 |
| | | 2V | | | |
| | | 13 am viable | | | |
| Feb 1 | 9 AM | Dish (8) | | | |
| | | | | | Not counted |
| | | | | | ↑ |
| | | | | | No need out |

47 days
start

End

End

Finished

"1hr" soak

Experiment

SS Seaked, stratified @ 41°F Lab 7
JP'73 seed

| Date 1973 | Time of day | Germ. time (days) | Tips | | | Germination | | | No. of days | | |
|--------------|-------------------|-------------------------|--|------|---|-------------|------|-----|-------------------|---------|------|
| | | | No. | Cum. | % | No. | Cum. | % | | | |
| Dec 20 | 7:45 A | | Into soak. After 1 hour in water. Then on moist filter paper | | | | | | Start | | |
| Dec 20 | 11:30 A | | Sample (1) Into strat (79) | | | (72V) | | | (8) | | |
| Dec 28 | 9:00 A | 0 | out Into 68°F | | | | | | | | |
| 31 | 9:00 A | 3 | | | | 6 | 6 | out | | | |
| Jan 2 | 9:00 A | 5 | | | | 1 | 7 | | | | |
| 3 | 9:00 A | 6 | | | | - | 7 | 1 = | | | |
| 4 | 8:00 A | 7 | Excise roots | | | 7 | | | 7% | | |
| 8 | 8:30 AM | | 7 NV Nat | | | Norm 48 | | | End | | |
| | | | 17 NV Trans | | | Abn - | | | | | |
| | | | 2 Most split roots | | | Gdd 77 | | | | | |
| | | | | | | Dd - | | | | | |
| | | | Sample (2) | | | (65) | | | (14) | | |
| Jan 3 | | 0 | out Into 68°F | | | | | | 1 | 1 | left |
| 4 | | | | | | | | | | | |
| 7 | | 4 | | | | - | | | 1 | " | |
| 8 | | 5 | | | | - | | | 1 | " | |
| 9 | | 6 | | | | - | | | 1 | " | |
| 10 | | 7 | | | | - | | | 1 | out | |
| | | | | | | | | | | End | |
| | | | Sample (3) | | | (95) | | | (21) | | |
| Jan 10 | 8 AM | 0 | | | | 2 | | | 2 | out 2mm | |
| 14 | 8 AM | 4 | | | | 2 | | | 4 | | |
| 15 | | | | | | 2 | | | 6 | | |
| 18 | | 8 | | | | 0 | | | 6 | | |
| Feb 11 | | 0 | out strat | | | | | | | | |
| 12 | | 1 | | | | 40 | | | 40 | 6 = | |
| 13 | 10 AM | 2 | Back 40 | | | 10 out 50 | | | 86 | | |
| 19 | | | out " 15" | | | 17 | | | 62 | | |
| 20 | | | | | | 24 | | | 86 | End | |

Experiment

55 Soaked 1hr strat @ 40°F Lab 7

| Date 1974 | Time of day | Germ. time (days) | No. | Tips | | Germination | | | No. of days |
|--------------|-------------------|-------------------------|-----|---------------------|---------|-------------|------|---|-------------------|
| | | | | Cum. | % | No. | Cum. | % | |
| | | | | | | | | | strat |
| | | Sample (4) | | (98) | (90V) | | | | (28) |
| Jan 17 | 1 PM | 0 | | Hor 1767 | | 3 | 3 | | out |
| | 18 11 AM | | | | | 1 | 4 | | 4 |
| | 23 | 6 | | Back 40°F strat | | 1 | 5 | | " |
| Febr 11 | | 0 | | out strat | | | | | |
| " 12 | | | | | | | | | |
| " 13 | 10 AM | | | Back 40 (57) | | | 29 | | 5 = |
| | | | | | | 10 | 39 | | 90 |
| | | | | | | 17 | 56 | | |
| | | | | | | | 22 | | |
| | | | | | | | 78 | | |
| | | | | | | | 12 | | |
| | | | | | | | 90 | | |
| | | Sample (5) | | (86) | (79V) | | | | (36) |
| Jan 25 | 10 AM | 0 | | out Into 68°F | | 5 | 5 | | |
| | 28 | 3 | | | | 5 | 10 | | 10 = |
| | 29 | 4 | | Back strat | | | 10 | | 79 = |
| Febr 11 | | 0 | | out strat | | | | | |
| " 12 | | 1 | | | | | 11 | | out |
| " 13 | 10 AM | 7 | | Back 40 | | 6 | 17 | | |
| | | | | out 15" 46 | | 13 | 30 | | 30 |
| | | Sample (6) | | (79) | (68V) | | | | (47) |
| Febr 1 | 9 AM | 0 | | out Into 68°F | | 10 | 10 | | out |
| " 11 | | 10 | | Back 40°F 51V | | 7 | 17 | | 17 = 68 |
| | | Sample (7) | | (87) | (77V) | | | | (53) |
| Febr 12 | | 0 | | out strat Into 68°F | | 6 | 6 | | out |
| " 13 | 10 AM | 1 | | | | 16 | 22 | | |
| " 14 | 9 AM | 2 | | | | 9 | 31 | | |
| " 15 | | 3 | | | | 1 | 32 | | |
| " 19 | | 7 | | 55 42V | | 3 | 35 | | 35 = 77 |

SS Soak 1hr Cont'd

Dec 20

1974

Febr. 15
" 20
22

0
5
7

out start Into 68°F
Back start. 40

DNT Norm Abn. Gddel dcl DT

(90)(82V)

72 out

—

72

$\frac{72}{82} =$

28

(18)

Plus 10V

50

→ 50
72

End

Start
days

(62)