

Exp 30-30 Strat 30°F Petri Hilgard

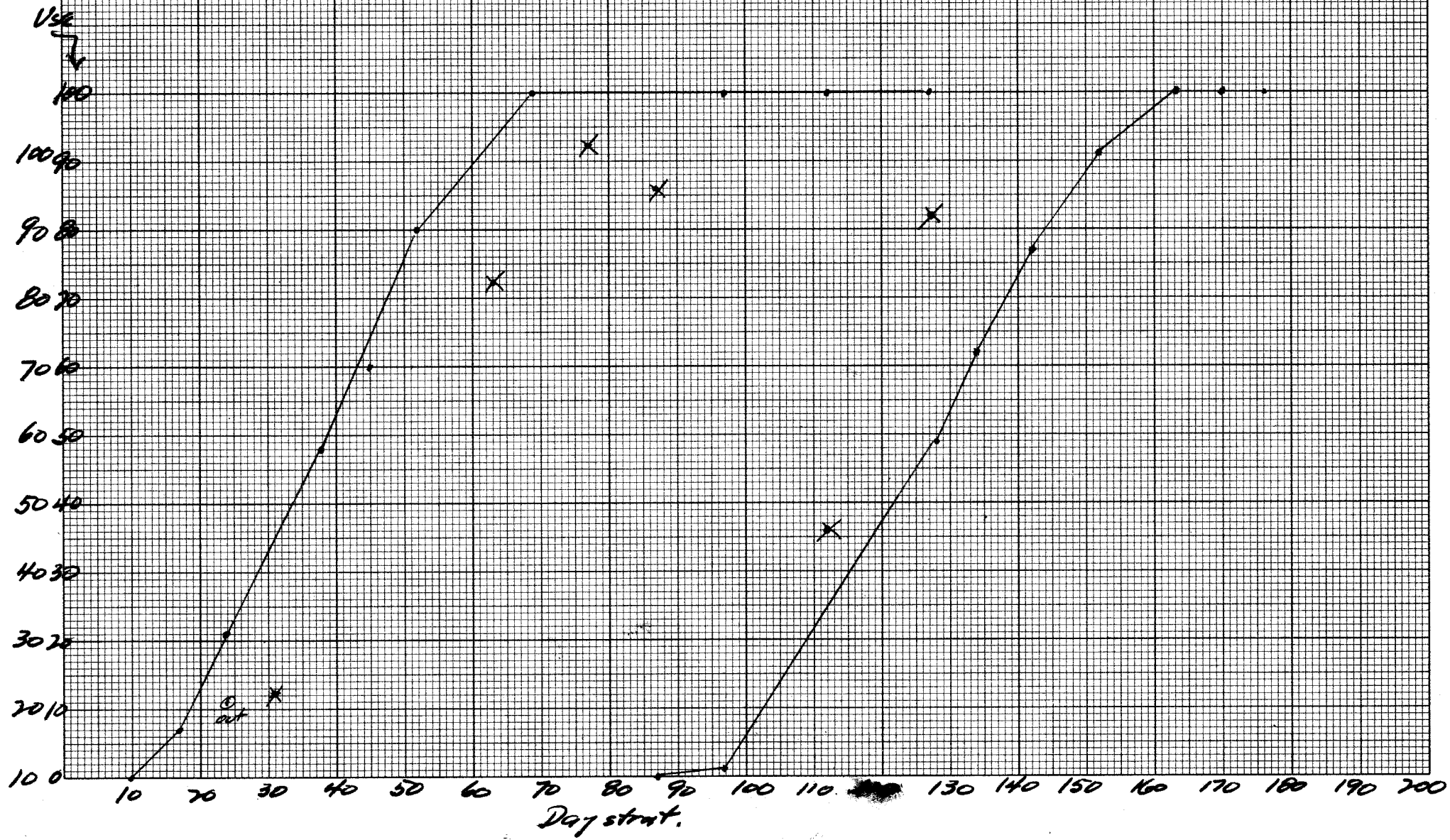
1946

Hormay

Jamesville 1945
July-Dec 1946

Tr % viability

Mar 18 1974



Experiment Summary

Petri

Exp. 30-30
Seed - source, nameTreatment: Strat 30°F
Jonesville 1945Not aerated
Hilgard

Treatment details

Test July 2 - Dec 26 1946

Date

77% viability

Germination record

@ 72°F

@ 30°F

Date

Sample

Treatment

No. of seeds

Germination 1/

Germination

(Strat)

Tips

: Complete

in treatment

No

No. of days

Total Viable

Percents

Percents

Percent

No %

No %

July 2/46

0

Into strat

Calc

1

10

732

165

167

0

0

0

0

2

17

765

194

191

14

7

7

3

24

735

178

169

36

20

21

4

31

354

272

255

31

11

12

5

38

272

164

196

94

57

48

6

45

373

213

233

139

65

60

7

52

270

270

194

156

80

80

8

63

272

188

196

141

74

72

9

69

738

179

171

175

98

100

10

77

766

179

192

177

99

92

11

87

276

178

199

172

97

86

0

12

97

769

202

194

200

99

100

2

13

112

276

211

199

204

97

100

72

14

127

244

209

176

209

100

100

144

15

128

187

180

180

89

48

49

16

134

187

187

180

111

59

62

17

142

187

187

180

139

74

77

18

152

187

187

180

163

87

91

19

163

187

187

180

183

98

100

20

170

187

187

180

185

99

100

26

176

187

187

180

187

100

100

Nov 7

8

14

22

Dec 2

13

20

26

1/

In 7 days @ 68°F. Germination complete when root tip through seed coats.

30-30 ✓ Effect of strat. @ 30°F on ger.
1946

same seed
Lanesville 1945

15 samples stored in 30°F & check put in 32°F
on July 2, 1946

Days strat 30°F 72% viability Days check Rm 32°F
 $\frac{1}{193} = 5181$ July 2, 1946

July 2, 1946

July 12.

71% V

10 1st Sample
232 165V

Date Days No.

27 17 6
31 21 11

0 - 0
10 1
13 2
15 3
17 5

12 0
15 3
17 5
19 7
22 10
24 12
26 14

0 0
0 0
0 0
0 0
0 0
2

2nd Sample
265 194V

73% V

17 0 0
11
13
14 7
14 7
15

↓
20 9 5
22 11
24 12

7-19

7-19 0
7-22 3
7-24 5
-26 7
29 10
31 12

7-26-46

24 3rd Sample
235 178V 76% V

26 0
29 3
31 5
Aug 2 7
5 10

0 0
35
36
36 20
36 20

↓
27 15 8
29 16
31 21
34 23

26
9
36

Date

Days

Days
start

Days

Check

Aug 2

Aug 2

5

6

7

8

12

0

3

4

5

9

10

31

4th samp
354/272V

71% V

0

0

22

22

25

31 11

35 12

Days

↓

34

23

12

35

26

36

27

38

29

41

31

Aug- 9

- 9

12

14

16

19

0

3

5

7

10

38

5th samp
272/144V

60% V

0

0

82

92

94 57

98 59

↓

43

33

18

45

35

Aug 16

16

19

20

22

23

26

0

45

6th samp
323/213V

66% V

0

0

130

134

137

139 65

141 66

↓

48

35

18

49

37

51

37

52

38

55

39

30°

Check

Days

Aug 23

0

7th Sample
290 1940

Aug 23

0

52

0 0

26

152

-27

4

154

28

5

155

30

7

156 80

Sept 3

11

158 59

55

39 20

56

40

57

40

59

41

63

43 22

Sept 3

8th Sample
272 188 69%

Sept 3

0

63

0 0

4

26

5

108

6

3

119

9

6

139 74

10

7

141

11

8

141

12

9

142

13

10

144 77

↓

66

44

69

46

Sept 9

9th Sample
238 179 75%

Sept 9

0

69

0 0

10

1

155

11

2

170

12

3

171

13

4

171

17

8

175 98

20

11

175 98

↓

70

46 24

71

46

72

46

73

46

77

46

↓

30°

Date			Check		
Sept 17			Days		
17	0	77	↓		
18	T		78	46	
20	3		80	47 24	
24	7		84	48	
25	8		85	48	
26	9		86	50	
27	10		87	51	
Sept 27					
27	0	87	↓		
30	5		90	51 26	
act 1	4		91	52	
2	5		92	53	
3	6		93	53	
4	7		94	55	
7	10		97	57	
Oct 7					
7	0	97	↓		
8	1		98	57 29	
11	4		105	58	
15	8		109	58	
19					

10th Sample
 266 179V 67%

0 0
 157
 175
 177 99
 177
 177
 177 99

11th Sample
 276, 178V 65%
 64.5

128 ← { Radicals seem
 164 to be somewhat
 166 shunted & deteriorated
 168
 172 97
 172 97

12th Sample
 289 202V 75%
 2 1

189
 200
 200 99

Jamesville
1945

Oct 22, 46

Oct 22 0
23 7
24 2
25 3
28 6
29 7
31 9

13 ^{1st} ~~2nd~~
276 211
112 72 root 34 in 24 hrs
198 " " 1/4 when counted
206 " " 3/4 when counted
209 " " 1/2 when counted
204 " " 1/4 when counted
204 7 of the 211 germs only
204 97

Days

Check

112 58
113 59
114 59
117 118 62
118 119 63
120 121 63 33

160

All Boston

~~1st~~ ~~2nd~~ ~~3rd~~ ~~4th~~ ~~5th~~ ~~6th~~ ~~7th~~ ~~8th~~ ~~9th~~ ~~10th~~ ~~11th~~ ~~12th~~ ~~13th~~ ~~14th~~ ~~15th~~ ~~16th~~ ~~17th~~ ~~18th~~ ~~19th~~ ~~20th~~ ~~21st~~ ~~22nd~~ ~~23rd~~ ~~24th~~ ~~25th~~ ~~26th~~ ~~27th~~ ~~28th~~ ~~29th~~ ~~30th~~ ~~31st~~

Nov 2 0
7 1
8 4
11 5
12 6
13 7
14 2

127 274 209
144 69
207
209
209
209
209 100
and

127 128 65
131 132 65
132 133 65
133 134 65

18
25
27
3
9
12
16
20
26

Total seeds 3572
" viable seeds 7579

72% viability

138 139 66 34
145 146 67
147 148 68
153 154 68 35
159 160 69
162 163 70 36
166 167 70
170 171 70
176 177 71 36 37%

Janesville-1945 send

CA Graham
1 Nov. 8, 1946

15th (last) Sample 30°F.

Date _____

Number
Germinated in 30° chamber.

250 189V

180 calc

Nov. 8, 1946

14

22

Dec 2

15

20

24

8948

11/39

13974

16387

189 98

185-99

187 100

These counts were made in the 30° chamber.

Factor 5348

	0
2	0
7	0
8	0