

Exp No 520

Growth development
Excised embryos

Mar 19 1943 12 noon

100 seeds (Truckee 1942) soaked 17 hours. Embryos

excised and germinated in Petri dishes @ 70°F. Hrs Days

Mar 20 5 PM

Seed excised

Growth started

0
30

" 22 7 AM

Sadlings growing well

38 1.6

23 8 AM

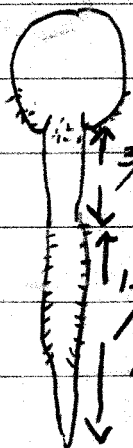
92 seedlings 1/4" to 1"

65 2.7

Starting to reddish. Glanular

hairs developing upper part hypocotyl
and lower edges of cotyledons

Hypocotyls 3/16"



Mar 25

Hypoc 3/8" to 1.0"

4.5

Mar 26

{ Roots 1/2" to 1.5

5.5

~~Hypoc 1/4" to 1/2"~~

" 27

Hypoc 1 to 1 1/2"

6.5

Other results excised embryos

Growth 1/8" in 27 hours } at 70°F

" 1/7" in 70 "

At 33°F 1/8" growth in 43 days

At 87°F roots segmented by third day

Growth abnormal above 72°F, No growth at 104°F