

Dec. 17 1932

Sowed 32 species of annual grasses and herbs

Watered first at 6:00 PM

Dec. 20 8:30 AM

Bromus trinii coleoptile $\frac{1}{4}$ " high.

Dec. 21 4:30 PM.

Bromus trinii coleoptile $\frac{1}{4}$ " high

Poa tectorum appearing above soil

Poa rubens " " "

Amsinckia douglasiana " " "

Hemizonia " " "

Thysanocarpus curvipes " " "

Grasses Grown in Greenhouse

Dec 22 1:30 PM

#1 *Avena barbata* $\frac{1}{4}$ " above soil surf.

#2 *Avena fatua* (germinating) $\frac{1}{8}$ " " "

#3 *Aspris caryophylla* - not germ.

#4 *Briza minor* - not germ.

#5 *Bromus arenarius* - (germ) $\frac{1}{4}$ " above soil surf.

#6 " *hordeaceus* (germ) $\frac{1}{4}$ " " "

#7 " *madretensis* (germ) $\frac{1}{8}$ " " "

#8 " *racemosus* (germ) $\frac{1}{8}$ " " "

#9 " *rigidus* - not germinating

#10 " *rubens* - (germ) $\frac{1}{4}$ " above soil surf.

#11 " *sterilis* - not germinating.

#12 " *tectorum* - (germ) $\frac{1}{4}$ " above soil surf.

#13 " *trinii* (germ) $\frac{1}{2}$ " above soil surf.

#14 *Festuca confusa* (germ) $\frac{1}{8}$ " above soil surf.

#15 " *megalura* (germ) $\frac{1}{8}$ " " " "

#16 " *myuros* (germ) $\frac{1}{8}$ " " " "

#17 " *pacifica* (germ) $\frac{1}{4}$ " " " "

#18 *Gastridium ventricosum* (germ) just emerging from soil

Grasses Grown in Greenhouse (Dec 22, 1932)

#19 *Hordeum gussoneanum* (germ) $\frac{3}{8}$ " above soil surf.

#20 " *mucluum* (germ) $\frac{1}{4}$ " above soil surf.

Grasses Grown in Greenhouse to this

Date - Dec, 22, 1932

Flats placed outside of Greenhouse

Dec 22, 1932

#1' *Avena barbata* (germ) $\frac{1}{4}$ " above soil surf.

#2' " *fatua* (germ) $\frac{1}{4}$ " above soil surf.

#3' *Aspris caryophylla* - not germinating

#4' *Briza minor* - " " "

#5' *Bromus arenarius* - (germ) $\frac{1}{4}$ " above soil surf.

#6' " *hordeaceus* (germ) $\frac{3}{8}$ " " "

#7' " *madretensis* (germ) $\frac{3}{8}$ " " "

#8' " *racemosus* (germ) $\frac{3}{8}$ " " "

#9' " *rigidus* (germ) $\frac{1}{4}$ " " "

#10' " *rubens* (germ) $\frac{1}{2}$ " " "

#11' " *sterilis* - not germinating.

#12' " *tectorum* - (germ) $\frac{1}{4}$ " above soil surf.

#13' " *trinii* - (germ) 1" above soil surf.

#14' *Festuca confusa* (germ) $\frac{1}{4}$ " " " "

#15' " *megalura* (germ) $\frac{1}{4}$ " " " "

#16' " *myuros* (germ) $\frac{1}{8}$ " " " "

#17' " *pacifica* - not germinating

Grasses Grown in Greenhouse to this Date
 Flats placed outside of Greenhouse Dec 22
 #18' *Gastridium ventricosum* - not germ.
 #19' *Hordeum gussoneanum* (germ) 1/4"
 #20' " *murinum* (germ) 1/4" above soil surf.

Herbs Grown in Greenhouse
 Dec 22, 1937 4:15 PM
 #21- *Amsinckia douglasiana* - germinating
 appearing above soil surface
 22 *Amsinckia parviflora* - germinating
 appearing above soil surf.

- 23. *Calandrinia caulescens* - not germ.
- 24. *Eremocarpus setigerus* - " "
- 25 *Erodium botrys* - " "
- 26 " *cicutarium* " "
- 27 *Hemizonia* sp. - germinating -
 appearing above soil surface
- 28. *Navarretia* sp. - not germ.
- 29. *Orthocarpus erianthus* - "
- 30. *Plagiobothrys canescens* - "
- 31. " *nothofulvus* - germinating
 appearing above soil surf.
- 32. *Thysanocarpus curripes* -
 germinating, 1/4" above soil surf.

Herbs Grown in Greenhouse to Date
 Dec 22, 1937
 Flats placed outside of Greenhouse
 Dec 22, 1937
 #21' *Amsinckia douglasiana* - germinating
 3/8" above soil surface
 #22' *Amsinckia parviflora* - germ.
 appearing above soil surf.
 23' *Calandrinia caulescens* - not germ.
 24' *Eremocarpus setigerus* - " "
 25' *Erodium botrys* - " "
 26' " *cicutarium* - " "
 27' *Hemizonia* sp. - germinating
 1/4" above soil surface
 28' *Navarretia* sp. - not germ.
 29' *Orthocarpus erianthus* - not germ.
 30' - *Plagiobothrys canescens* - " "
 31. " *nothofulvus* - germinating
 appearing above soil surf.
 32. *Thysanocarpus curripes* - germ.
 1/4" above soil surface.

Dec 23 1937 3:00 PM
 Not germinated
Asperis
Briza
Bromus sterilis DEZI
Calandrinia also Dec 26
Eremocarpus "
Erodium bot "
 " " *cic.* "
Orthocarpus
 " "
 Species germinating outside
Asperis *Gastridium*
Briza
Br. sterilis
Orthocarpus
Navarretia
Erodium bot + cic.
Eremocarpus
Calandrinia

Dec 26 1932 9:00 AM

germinating in greenhouse

Aspris coryophylla

Orthocarpus ciliatus

germinating outside

Bromus sterilis

Navarretia

Jan 1

germinated outside

Aspris.

Gnathidium

Orthocarpus

Colandrinia

germinated in greenhouse

March 30 1933

Brija minor