

HRYMUR: SEED PRODUCTION OF HYBRID LARCH FOR ICELAND

ÞRÖSTUR EYSTEINSSON



1993: SELECTING AND GRAFTING PLUS TREES



2000 AND 2003: PROGENY TRIALS PLANTED

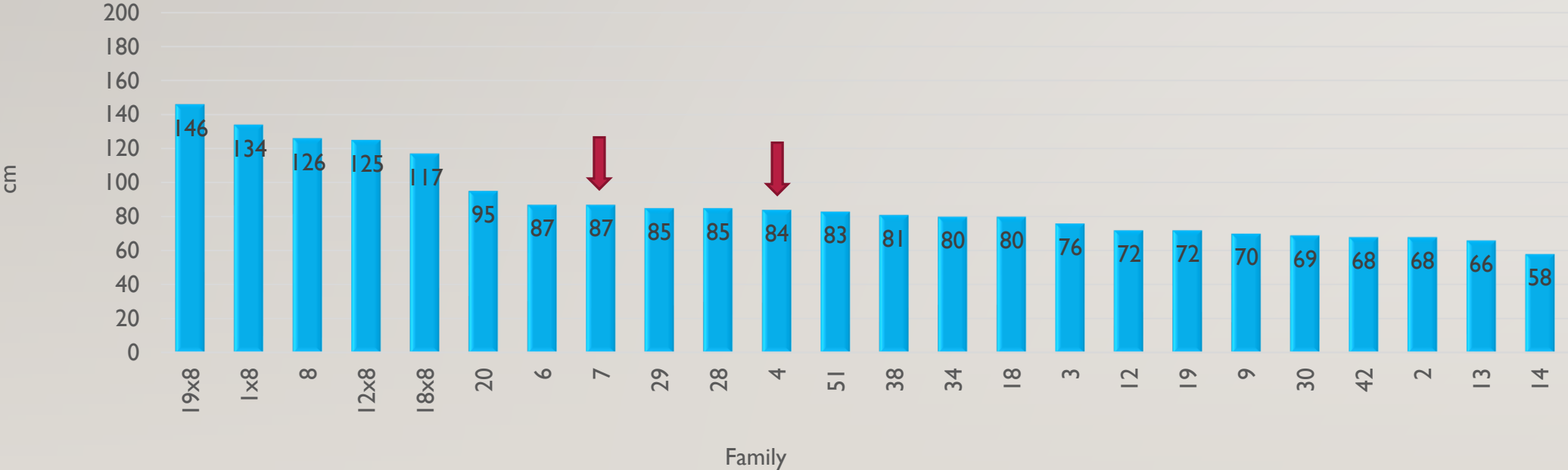


2003: HYBRID OBVIOUSLY SUPERIOR



2005: MEASUREMENT OF PROGENY TRIALS

Mean height Mosfell 2005



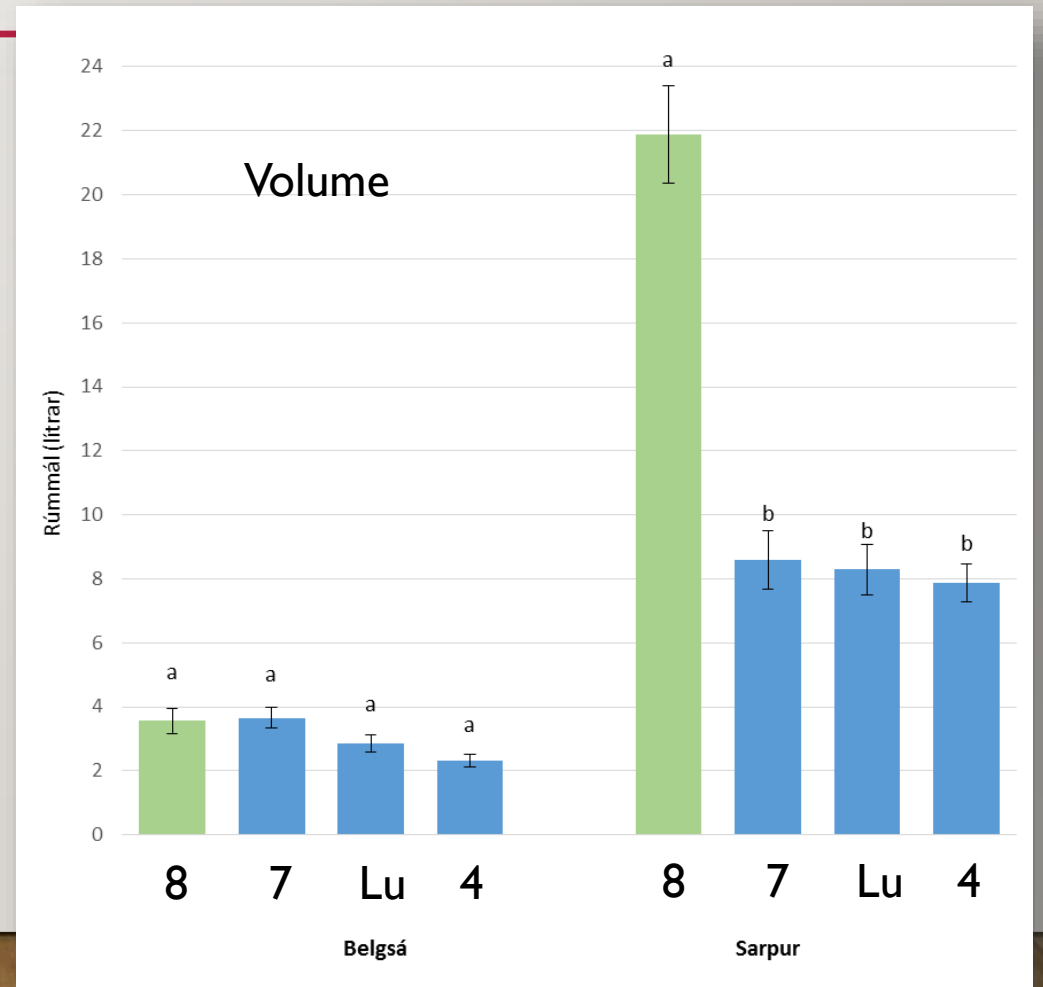
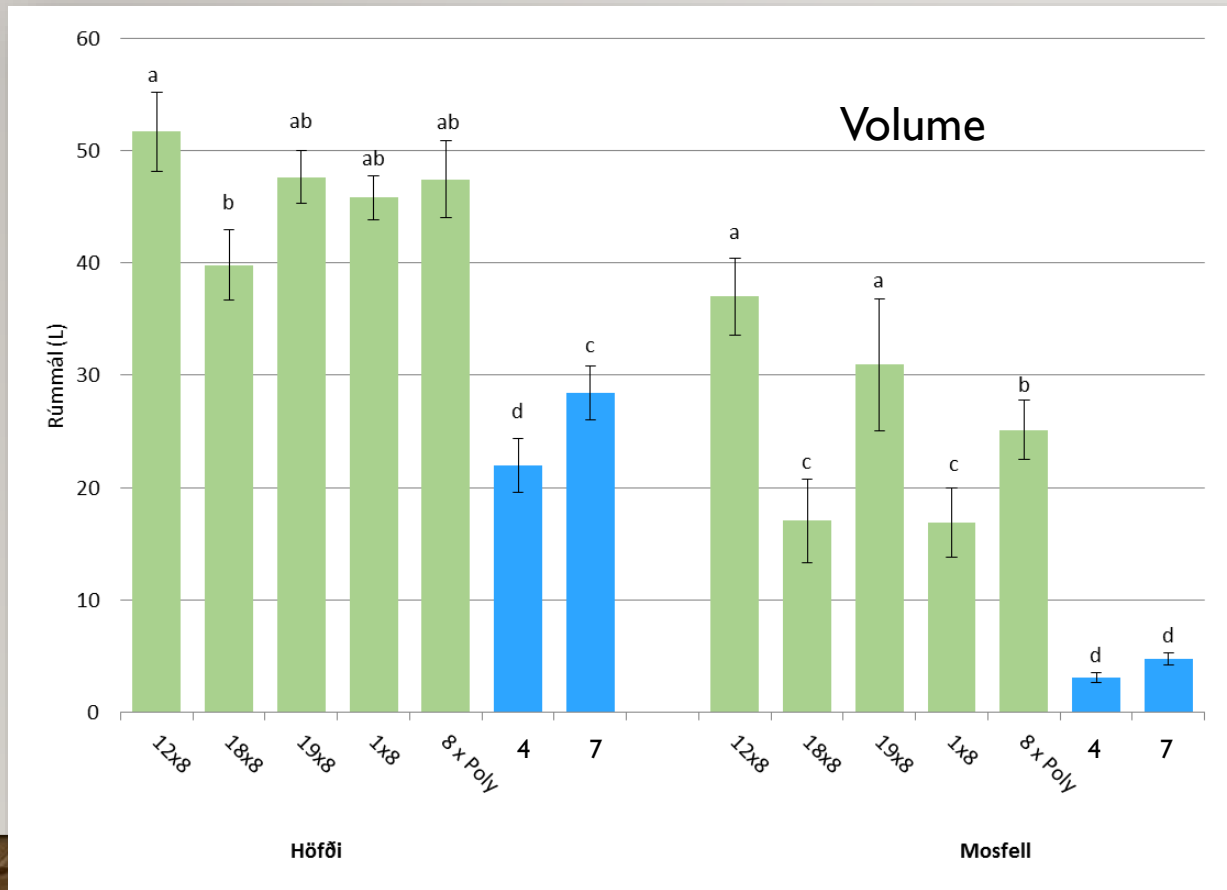
2008: REGRAFTING, EMPHASIS ON HYBRIDS



Hrymr ekr austan
Hefisk lind fyrir

2016: NEW MEASUREMENTS

JÓN HILMAR KRISTJÁNSSON



THE GREENHOUSE ORCHARD

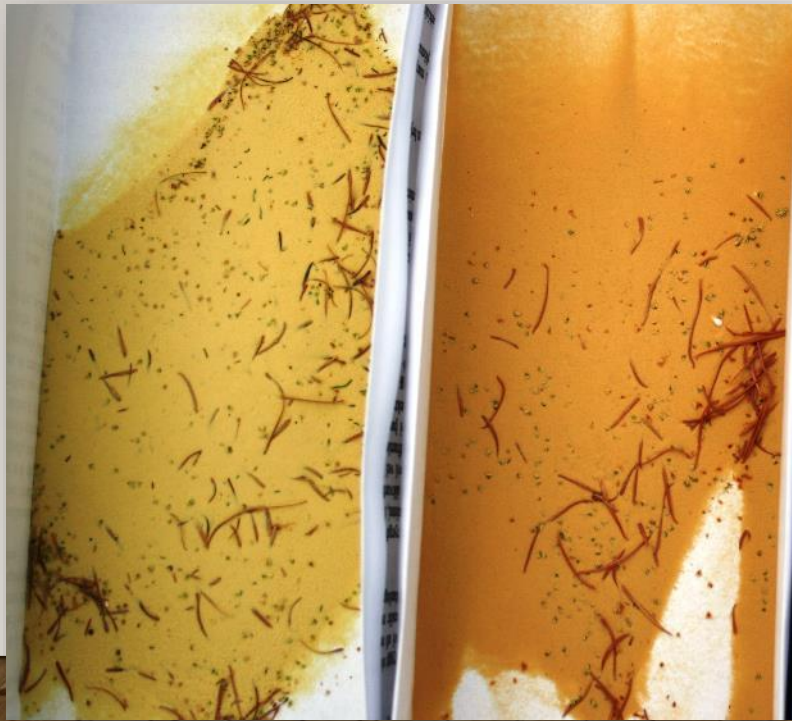


POLLINATION



POLLINATION

L. sibirica



L. decidua

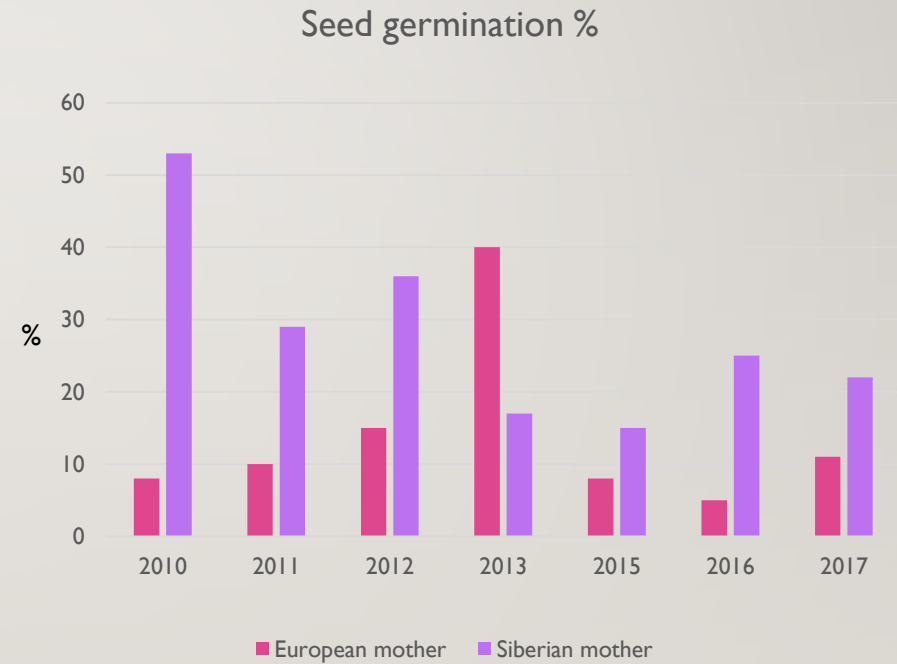
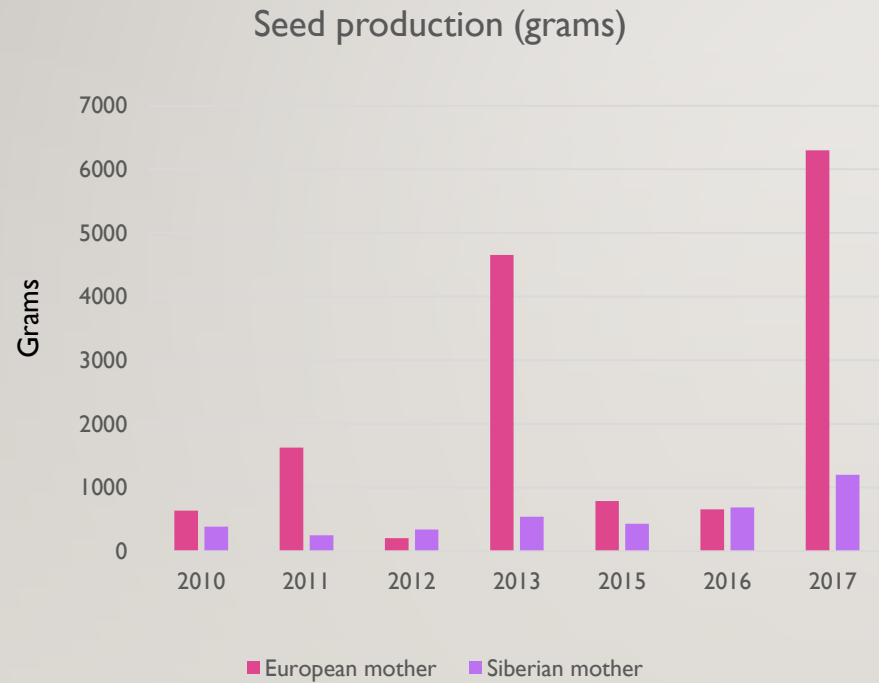


POLLINATION



GERMINATION OF SEED

VALGERÐUR JÓNSDÓTTIR



HOT NEWS (MONDAY)

VALGERÐUR JÓNSDÓTTIR

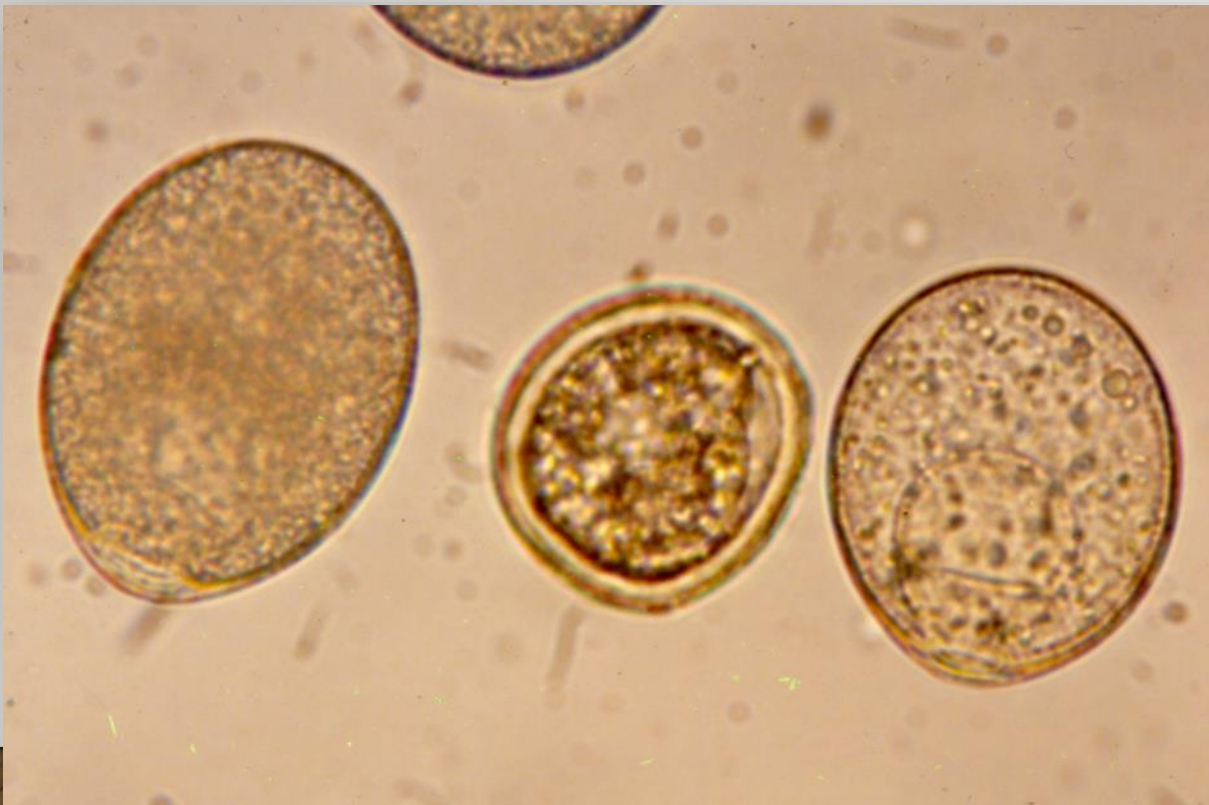
- 2 kg of last autumn's Hrymur seed were sent to Skogforsk in Sävar for cleaning
- Results:
 - Germination before cleaning – 11%
 - Germination after cleaning – 96%
 - Amount of seed – 285 g
 - Number of seedlings – 40,000
- The contact to Skogforsk is a direct result of NordGen cooperation.



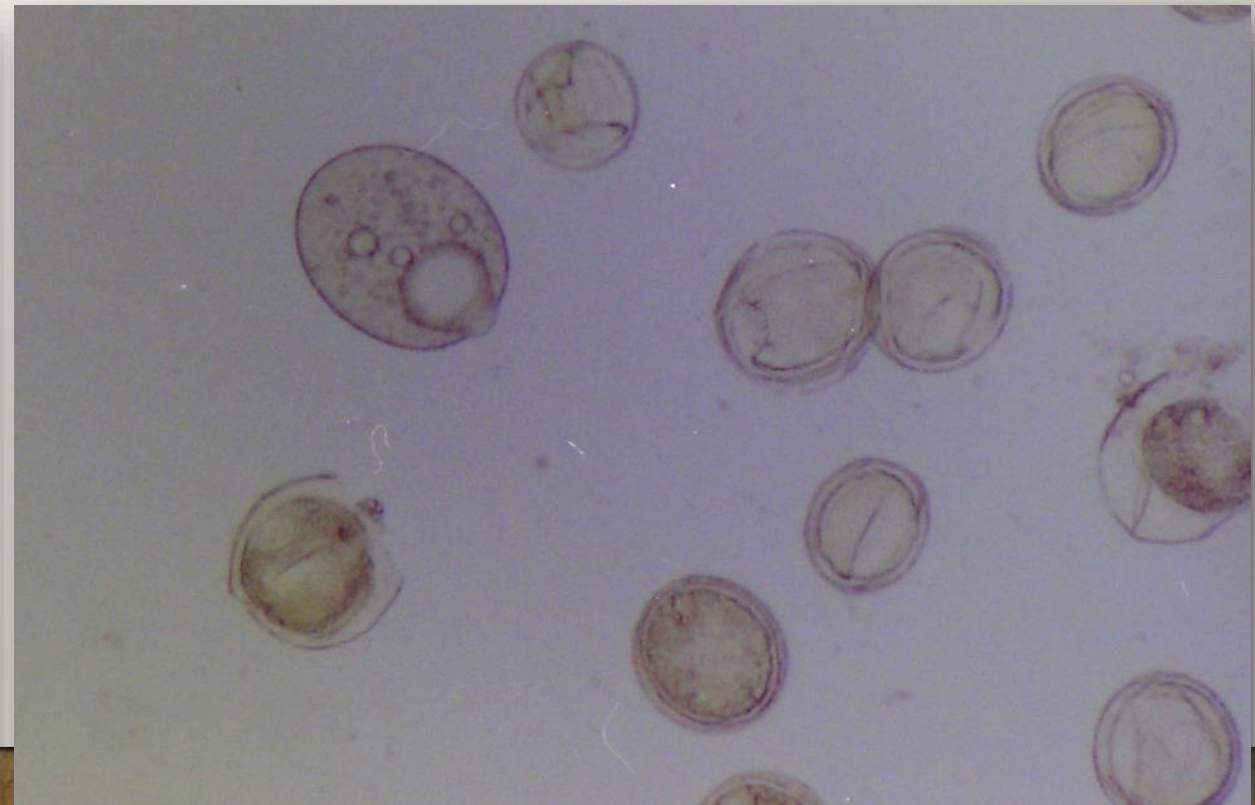
POLLEN VIABILITY

HANGING DROP TECHNIQUE

75% pollen viability



10% pollen viability



AMOUNT OF POLLEN

Viability is generally better in
seed of Siberian larch mothers

Siberian larch flowers less

Both male and female

Why?



NEXT GOALS

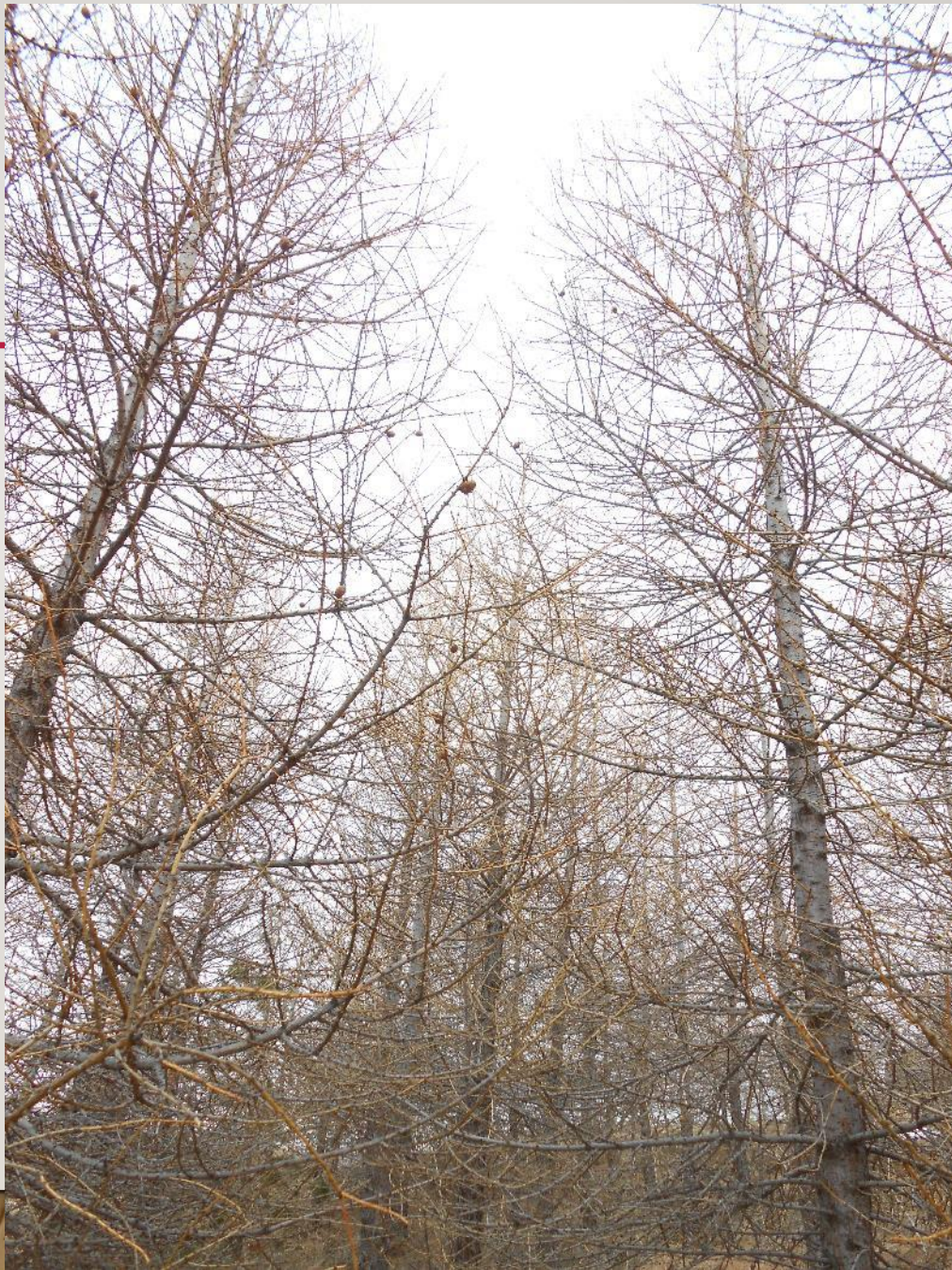
- Increase flowering of Siberian larch
 - By selecting clones (throwing out those that flower least)
 - Try new flower induction methods, root pruning for example
- Insure pollen viability
 - Prevent freezing after warm spells?
- Germination
 - 40-50% in unsorted seed
- Better seed extraction



VEGETATIVE PROPAGATION?



THANK YOU



skógræktin
ICELANDIC FOREST SERVICE