



Global Issues-Local Solutions: Sustaining Forests in Oregon

“Sustaining Oregon’s Forests in a
Changing World”.

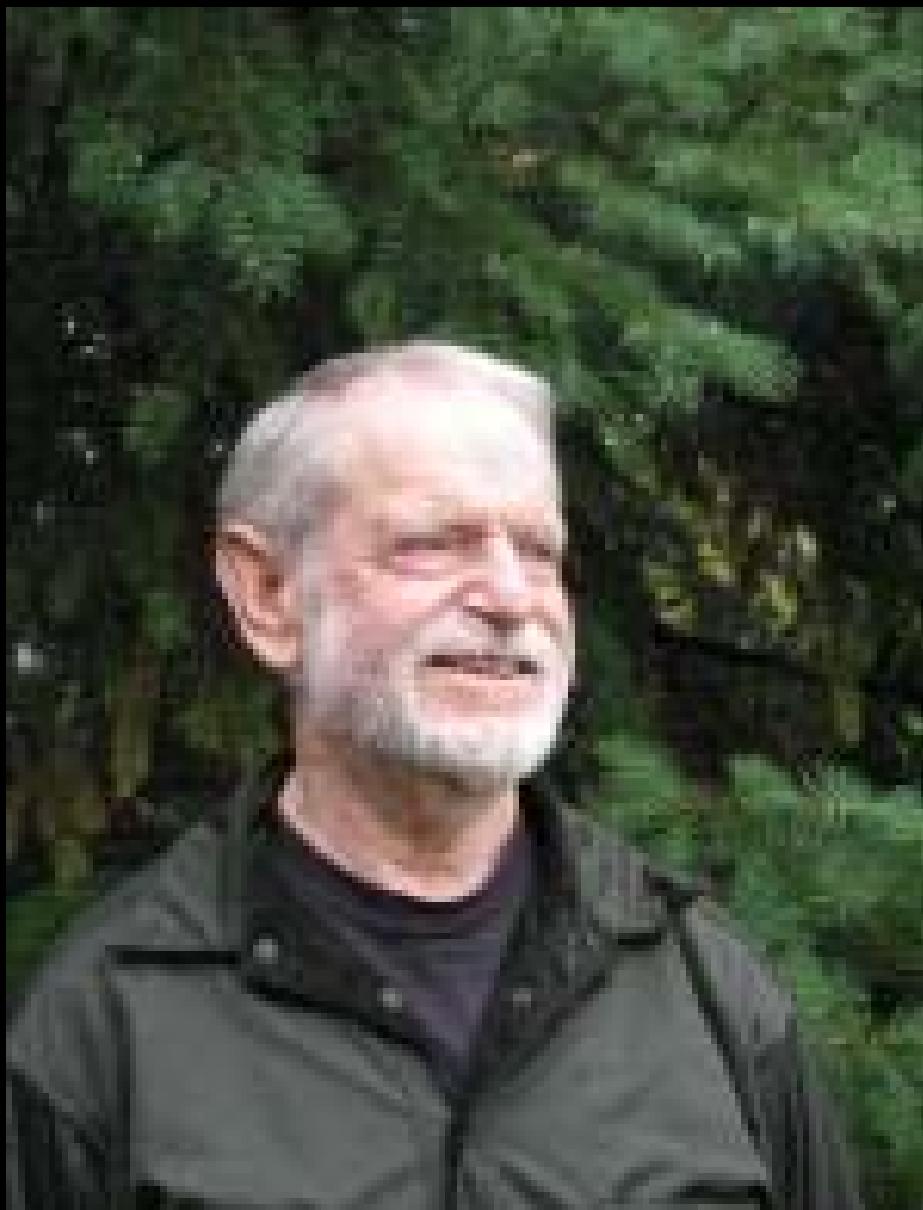
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Perspectives on Planted Forests for Oregon Forestry

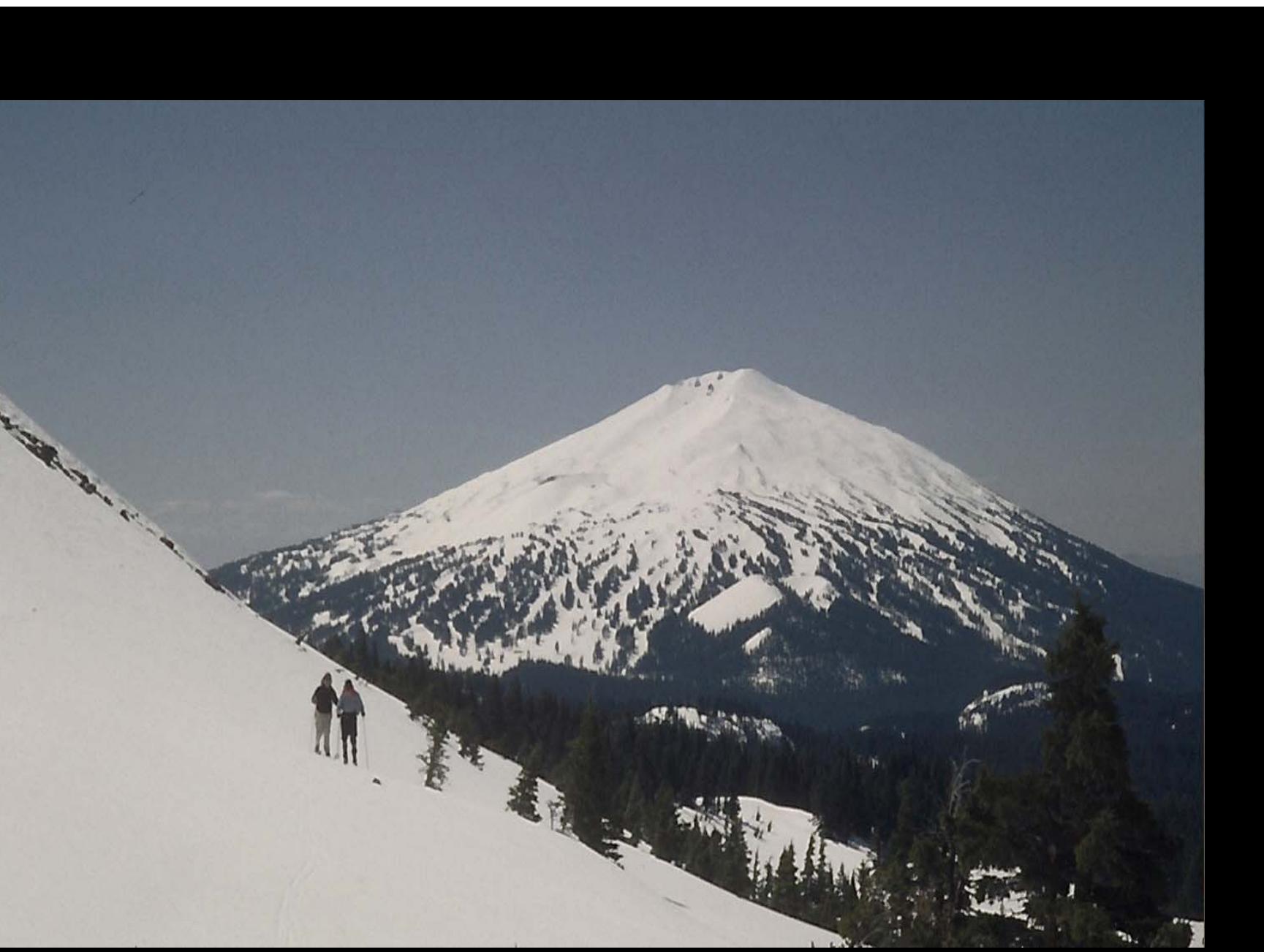
3:30– 3:59. (Next talk at 4:00!)

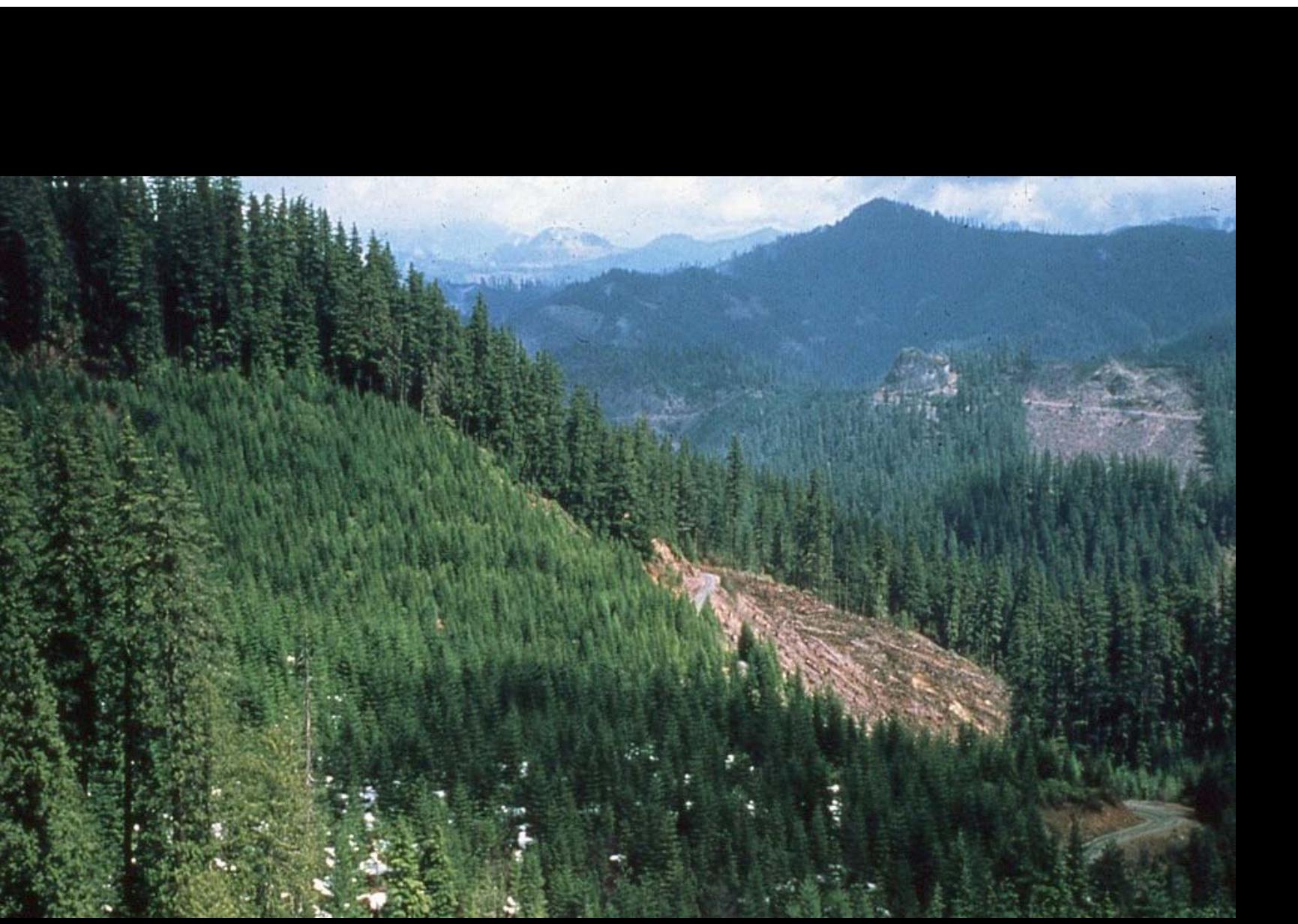
(Aim: 20 minutes of talk & 10 minutes for discussion.)

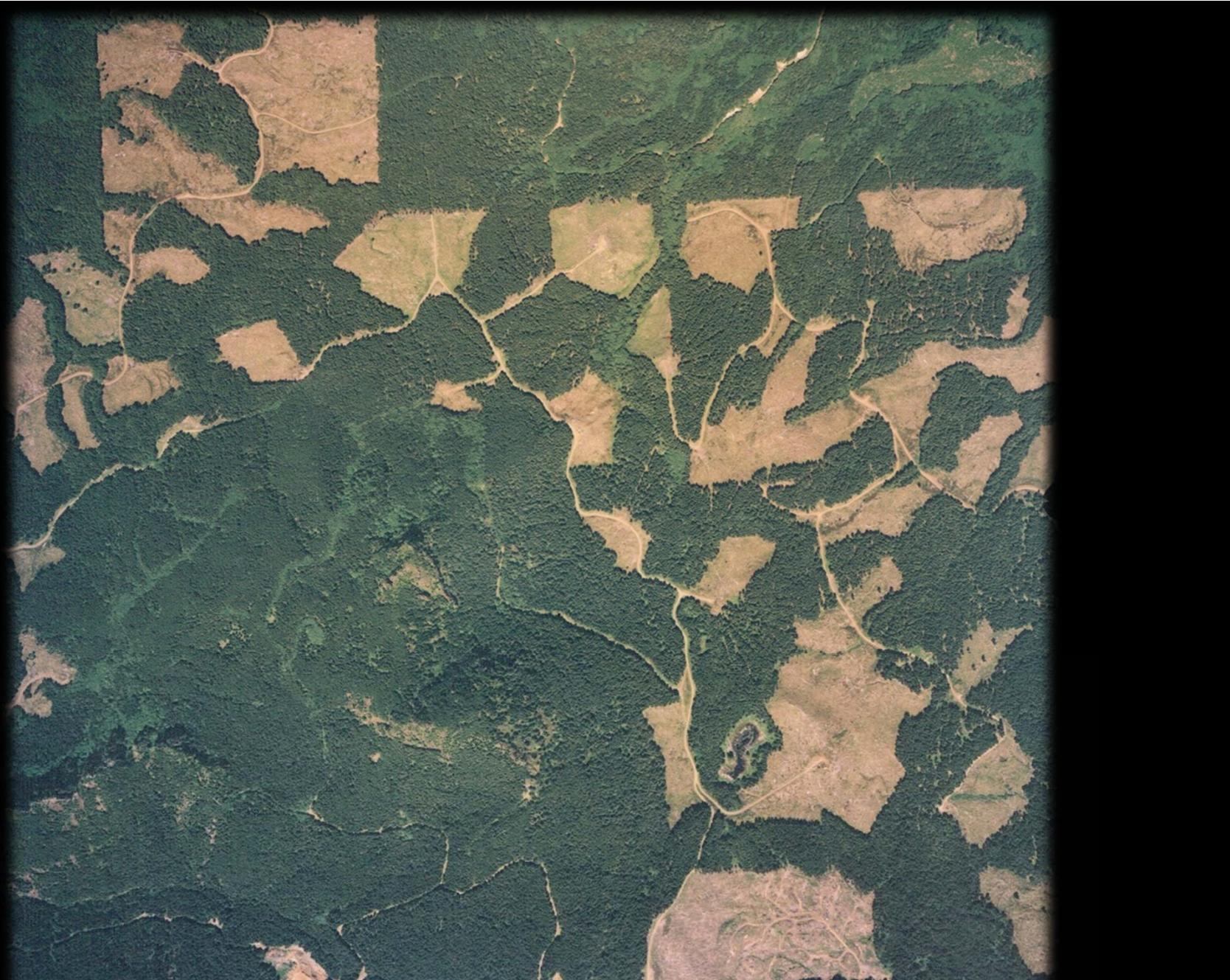
1. Intro' w/ images –Planted forests here and there... (~4')
2. Planted Forests in Oregon 1950s/60s ++ Success! (~4')
3. Silviculture for Planted Forests, for sustainability (5-6')
4. Silviculture: additional considerations (~5')
5. Sustainability of Planted Forests in Oregon (~3-4')
6. Conclusions: Sustainability-For What? For Whom? (~1')













46-1473







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Shelter belt and woodland on Hill of Ashmore by Andy Stott. UK

http://s0.geograph.org.uk/geophotos/01/42/53/1425389_1197a6e0.jpg

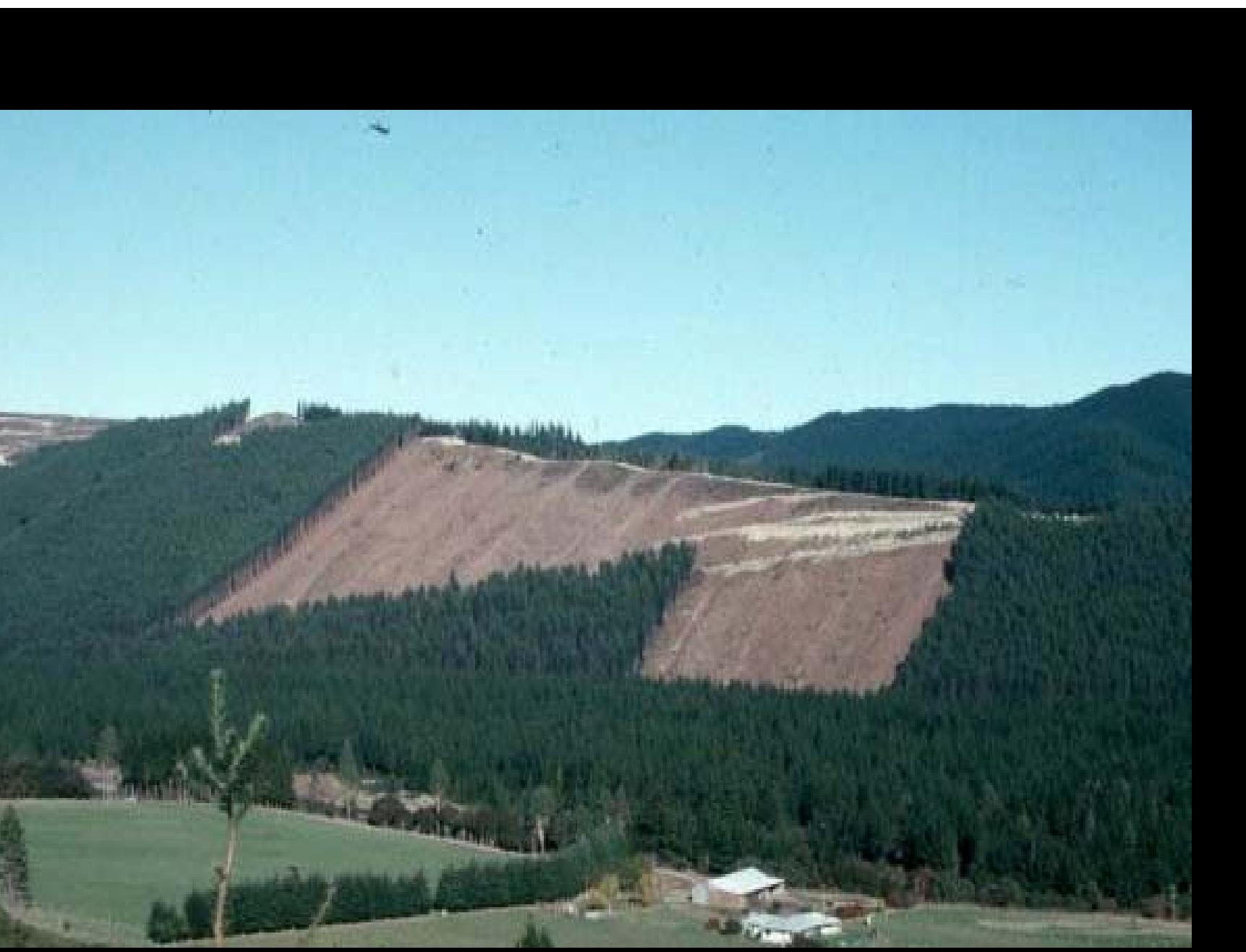




Woodcutters, Patagonia, Chile



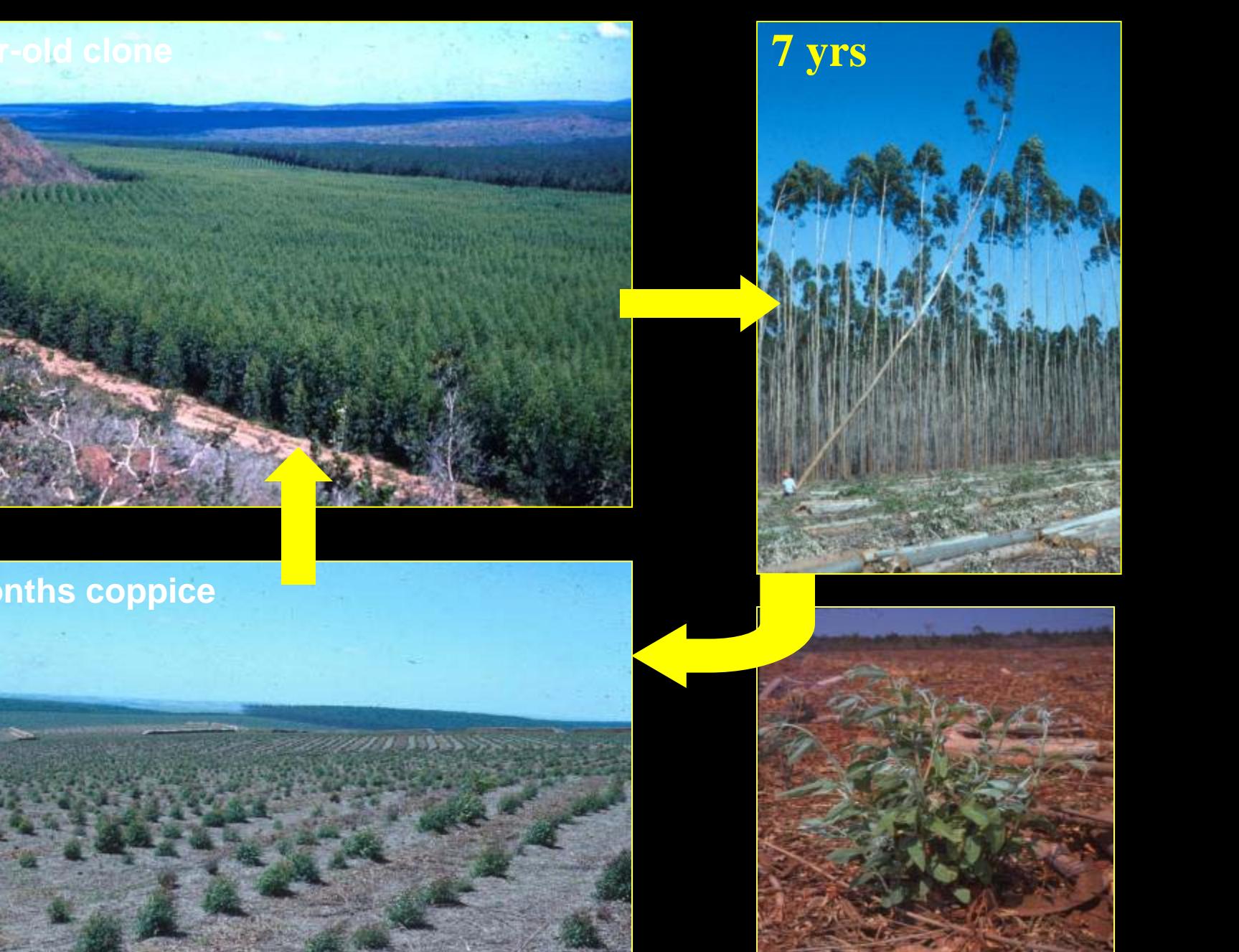




r-old clone

months coppice

7 yrs



2 years-old Eucalyptus Clone











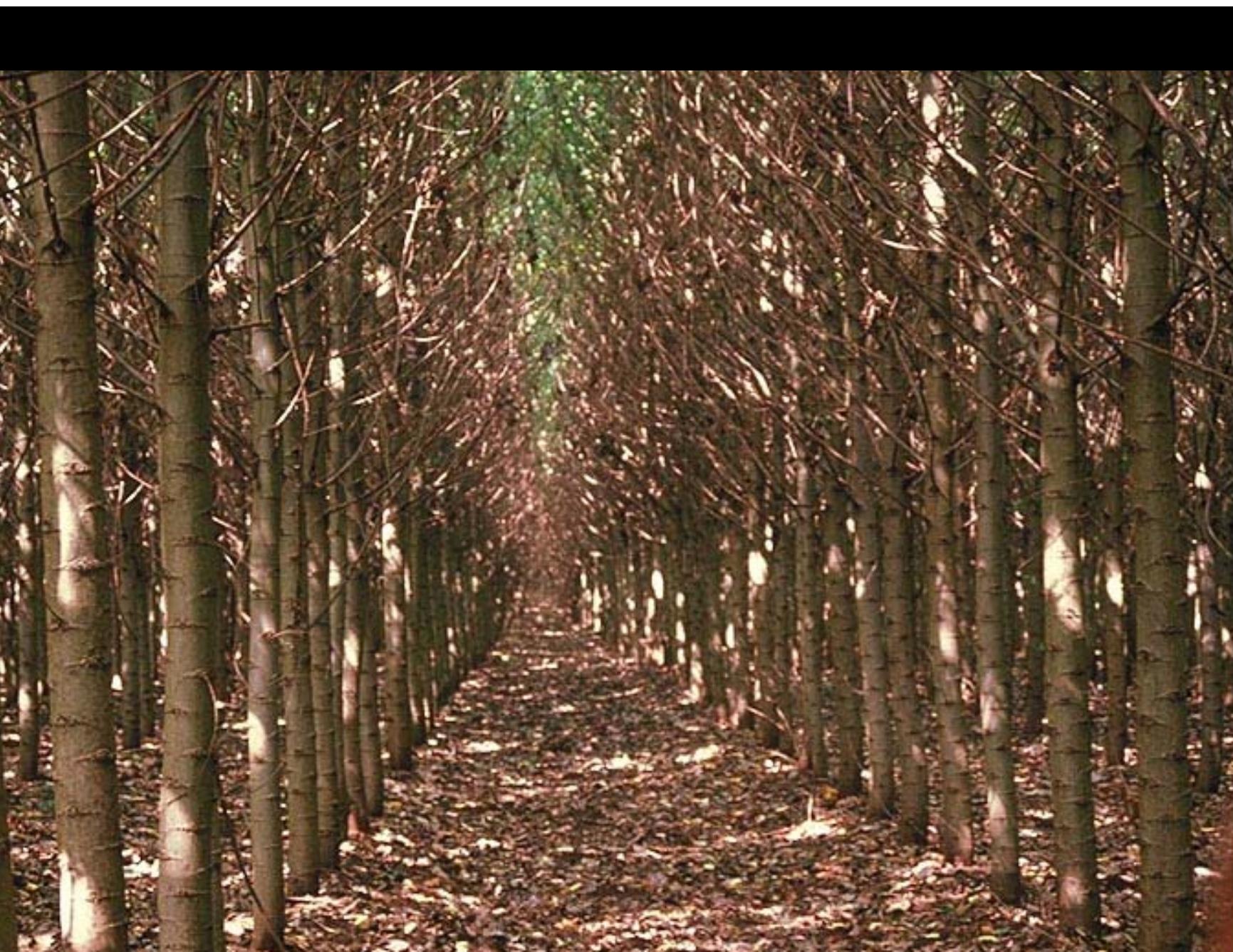




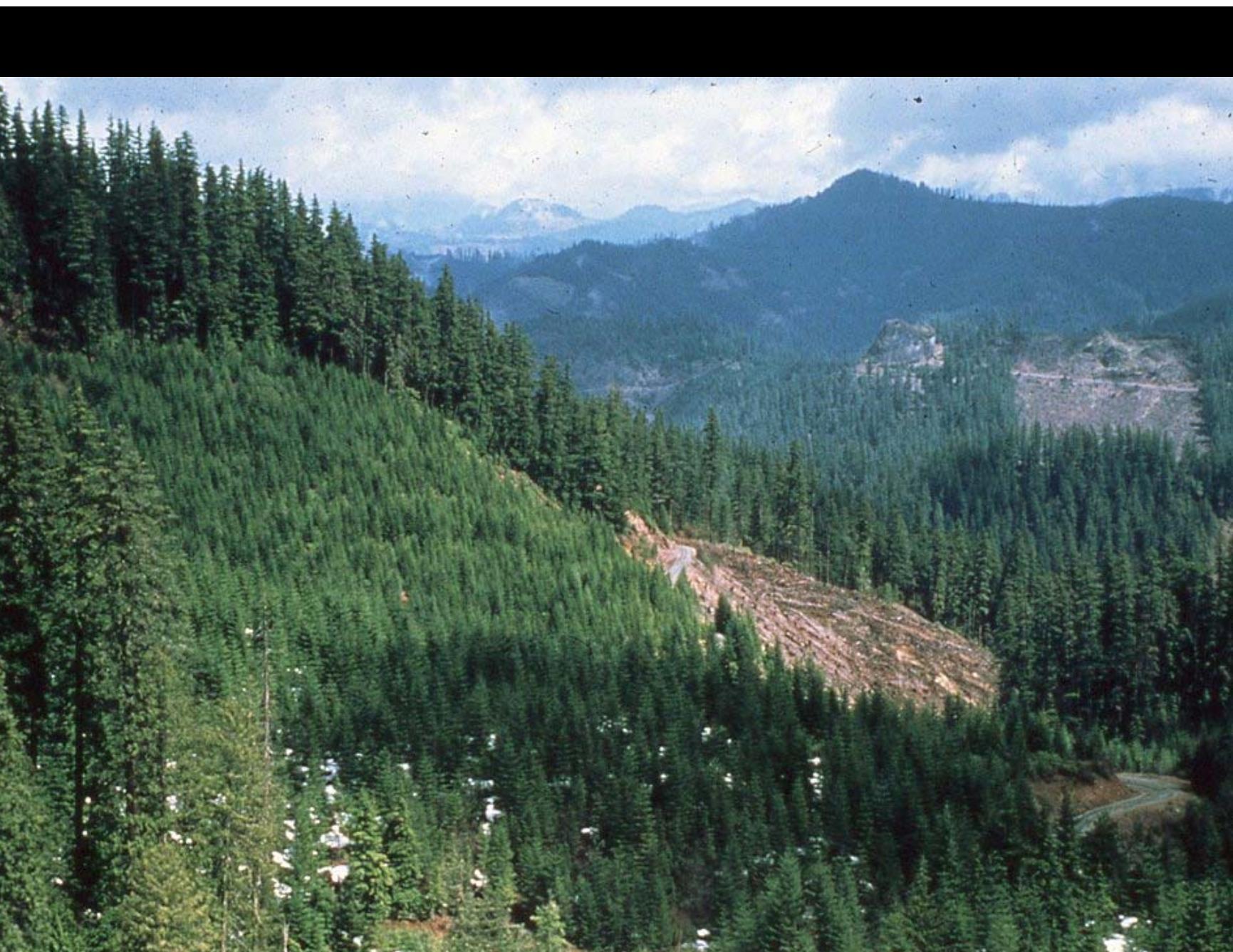
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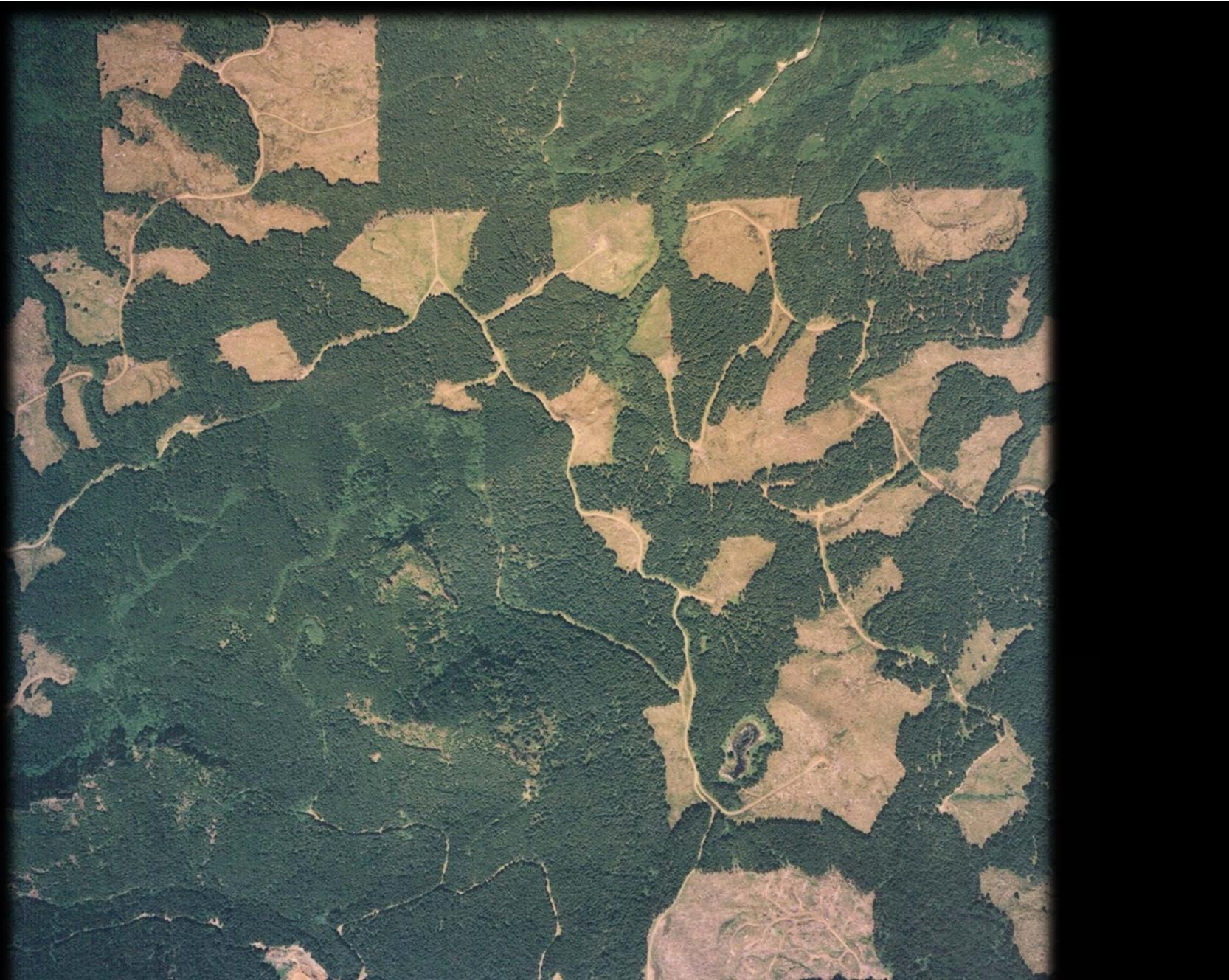


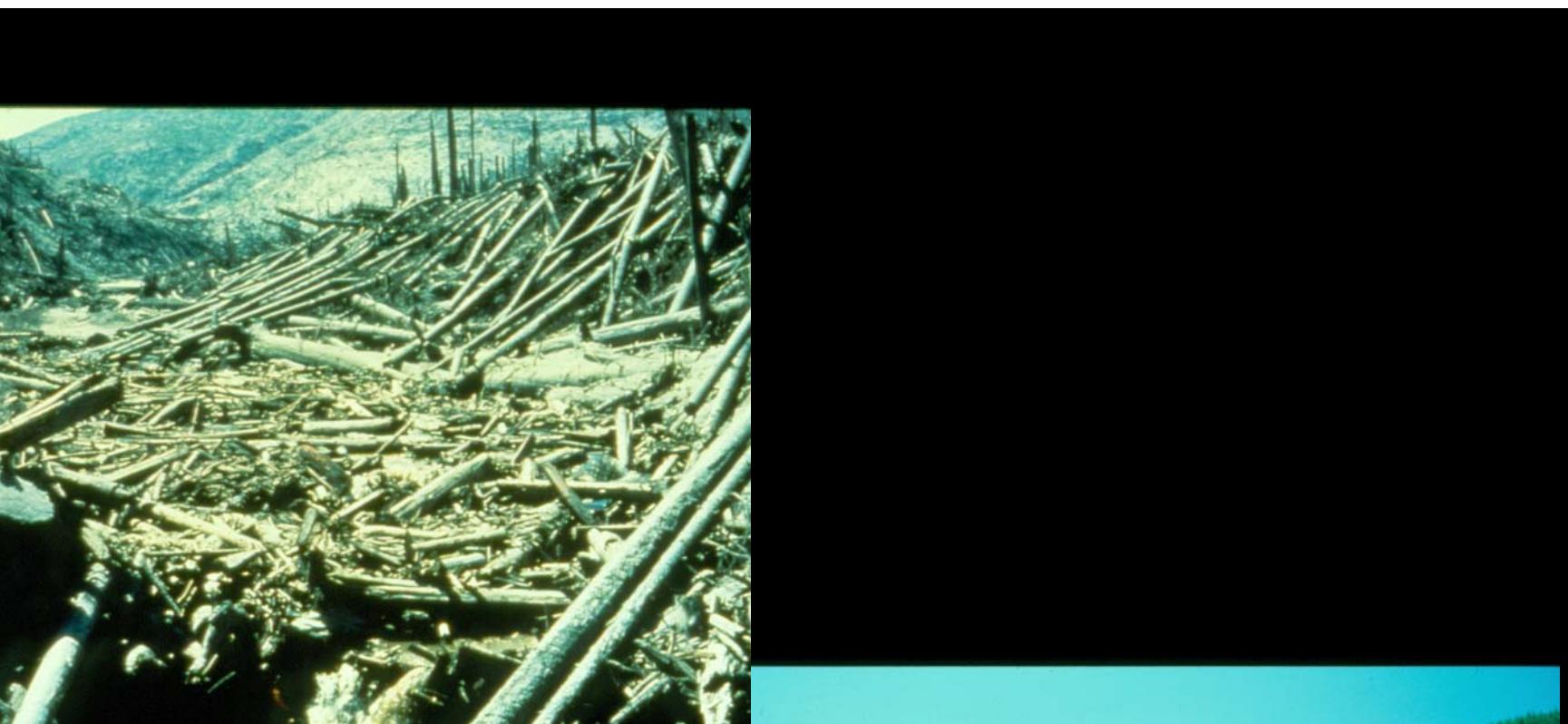










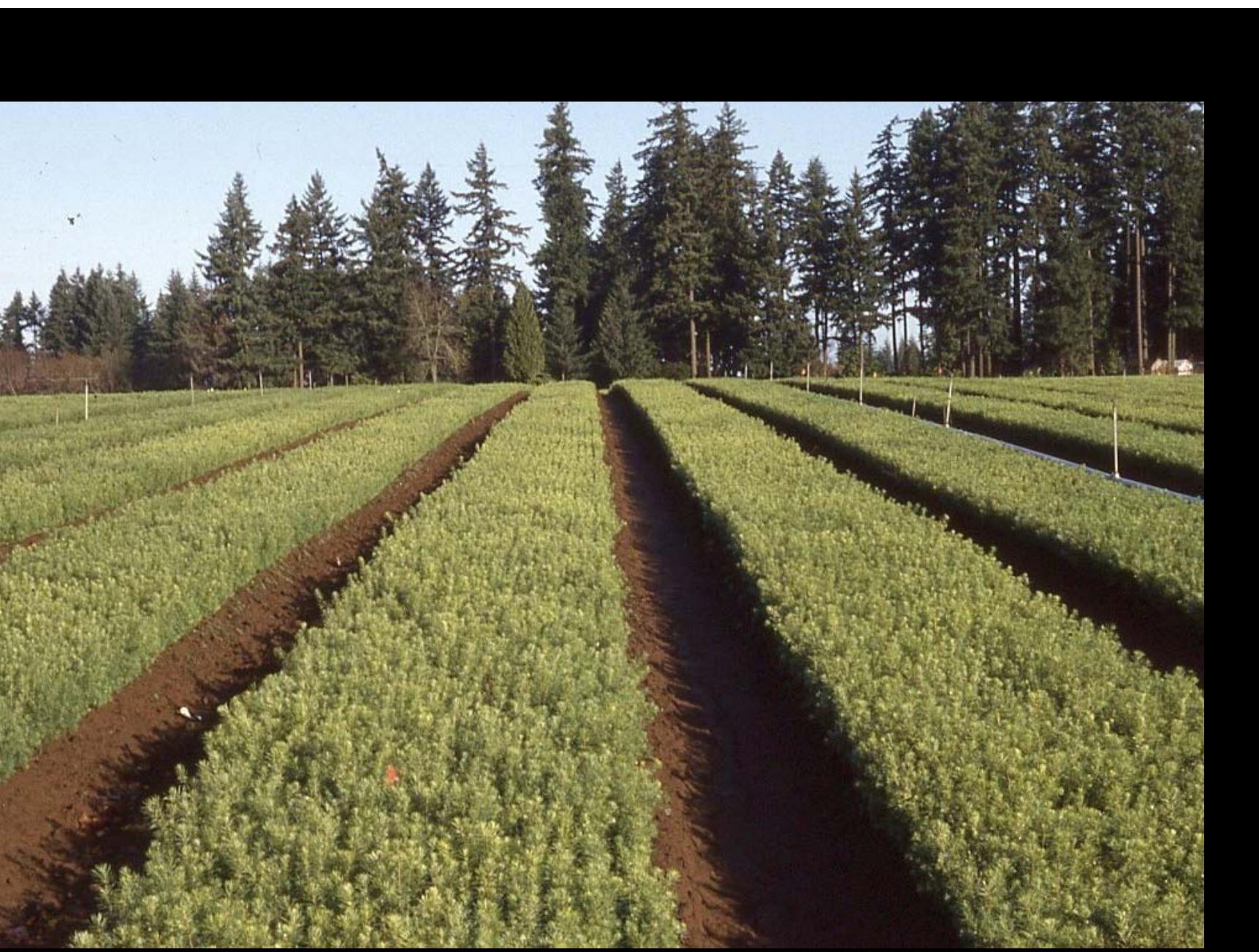








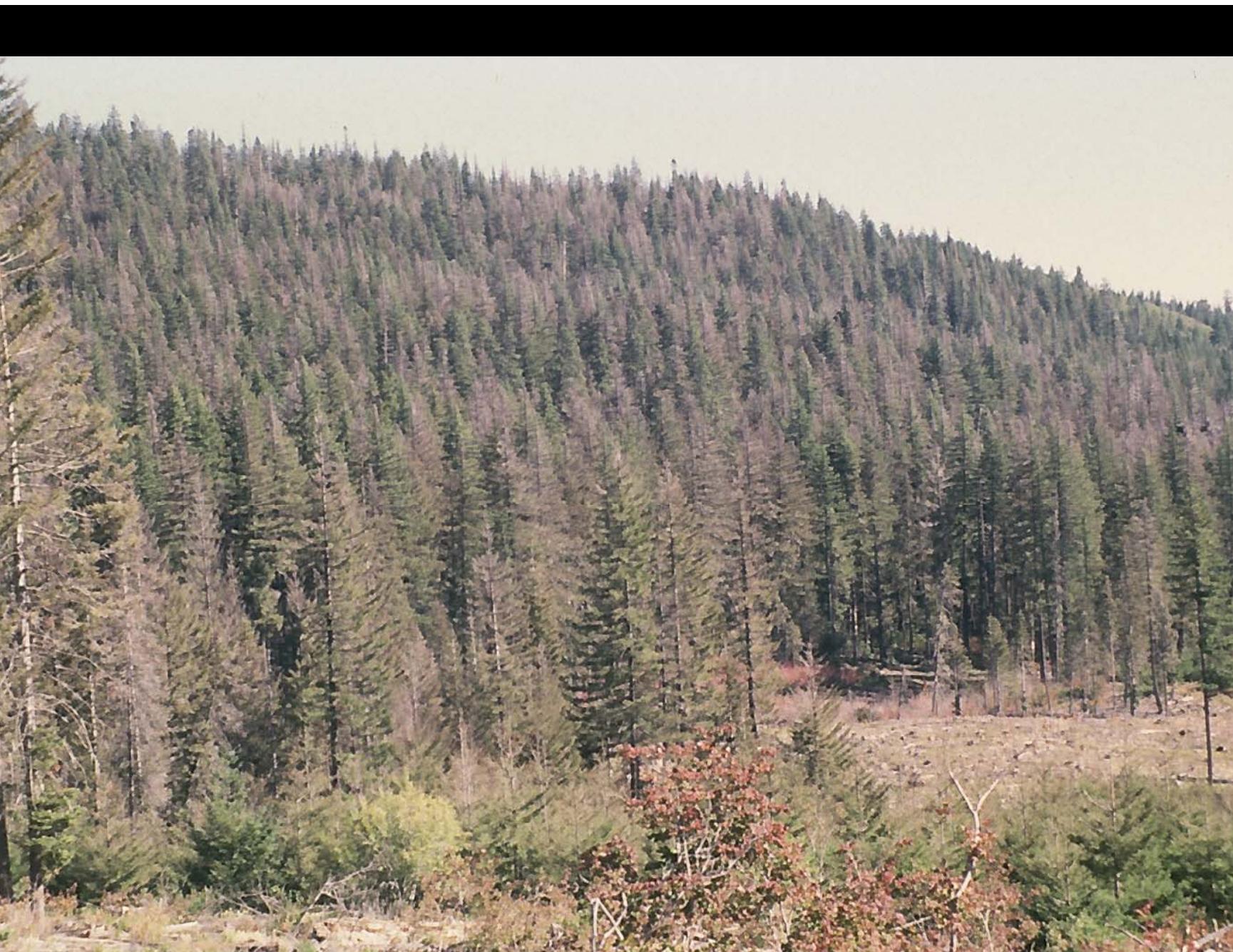


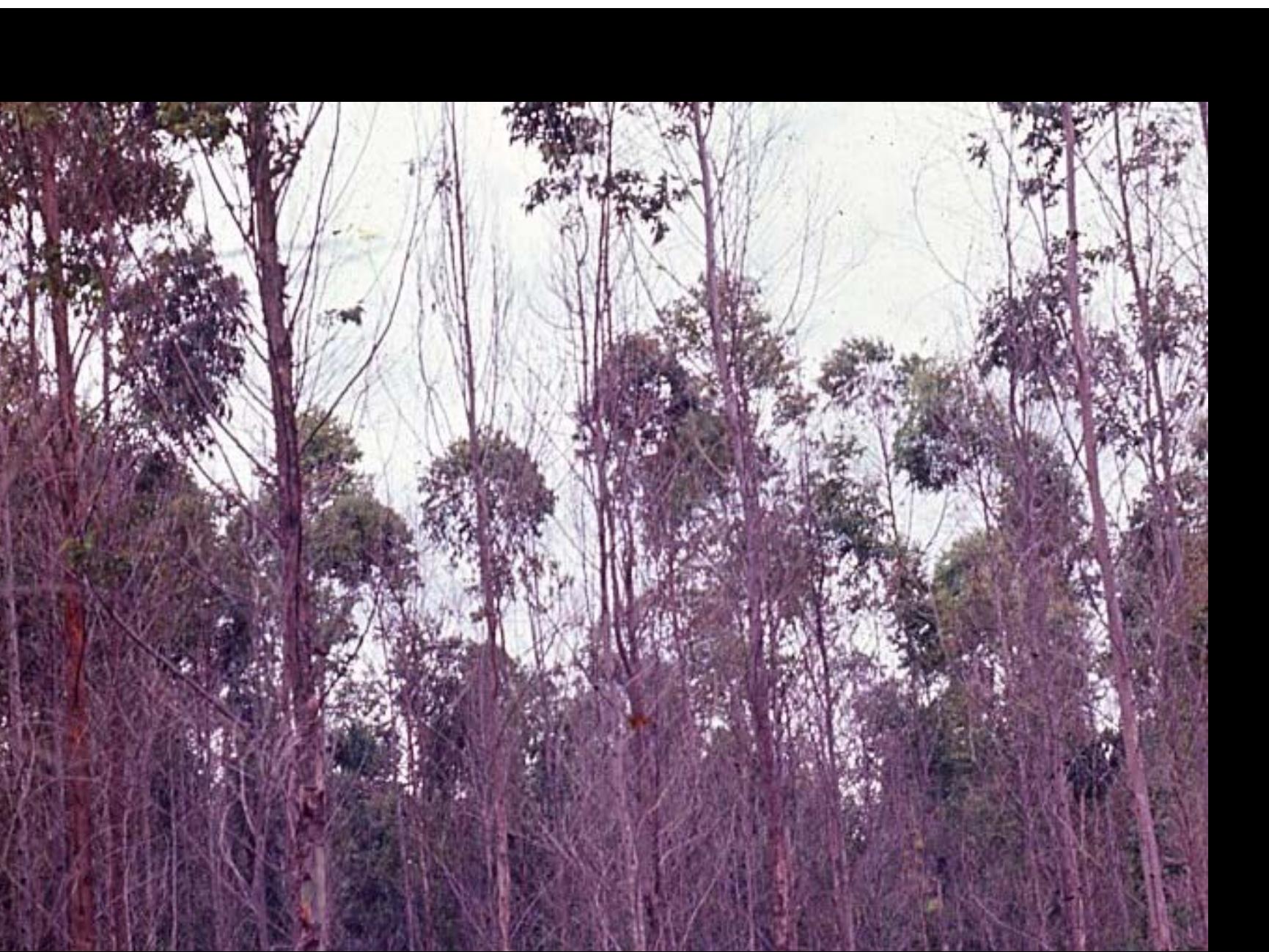






















31 40'38"













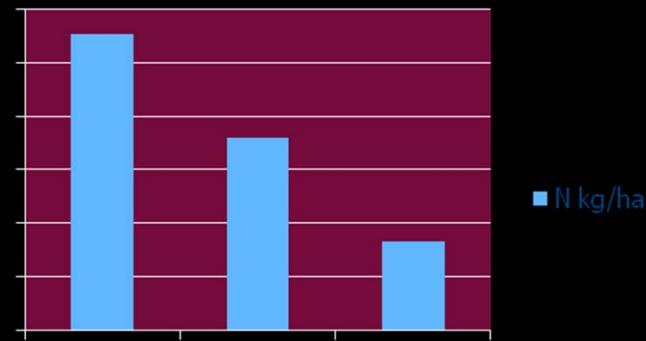
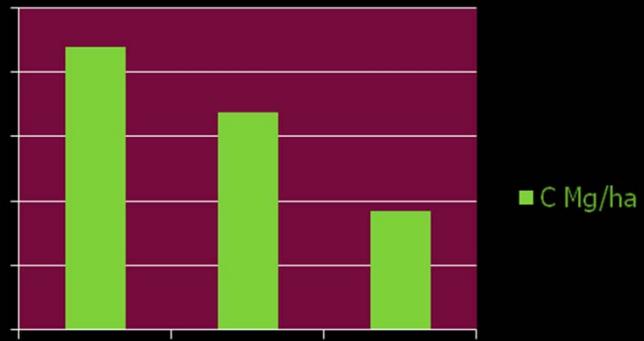
Low Potential



High

Regional Long-term Site Productivity Studies

El River, WA
(Listfort series)



Matlock, WA
(Grove series)





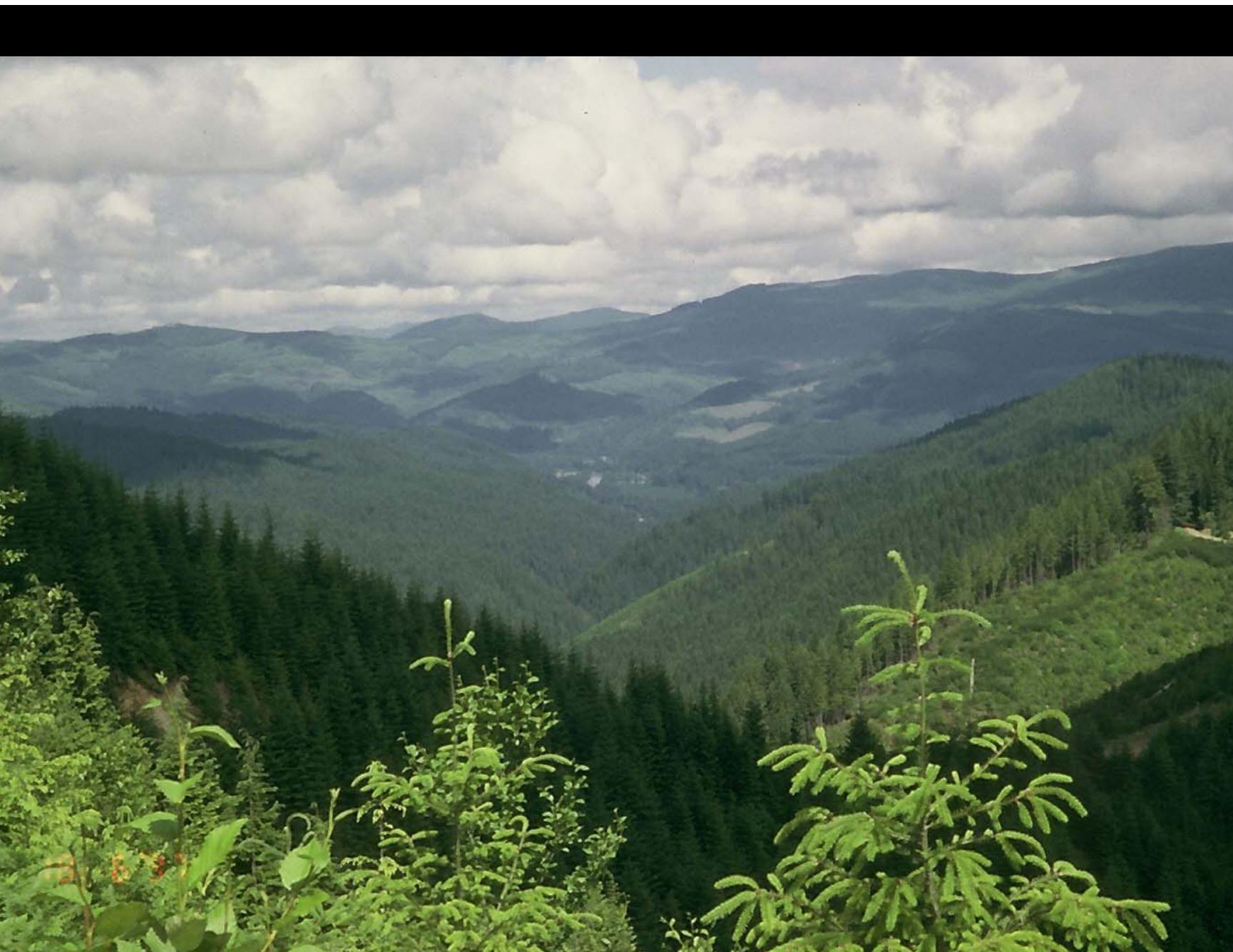
Soil & Site Variability
Pacific Northwest

Douglas-fir Site Index (100 yr base)	138 - 179
Gross Annual Growth (cubic ft/acre/yr)	122 - 293
Forest Floors (tons/acre)	11 - 38
Soil Depths (feet)	1.5 - 8
Total N in Forest Floors (pounds/acre)	150 - 1,200
Total N in Soils (pounds/acre)	1,300 - 30,000

**~ Biomass and Nutrients
Age 36 Site IV Douglas-fir**

Element	N	Ib./A	Ca
Bole & Bark	125		117
Branches & Foliage	163		179
Total Tree	<u>288</u>		<u>296</u>
Soil content	2809		741
Soil /Total Tree	9.75		2.50
Soil /Bole+Bark	22.5		6.3
(= number of crops from soil reserves)			
Annual inputs to soil	+		+

data of Dale Cole et al. 1968, and Gessel et al. 1973













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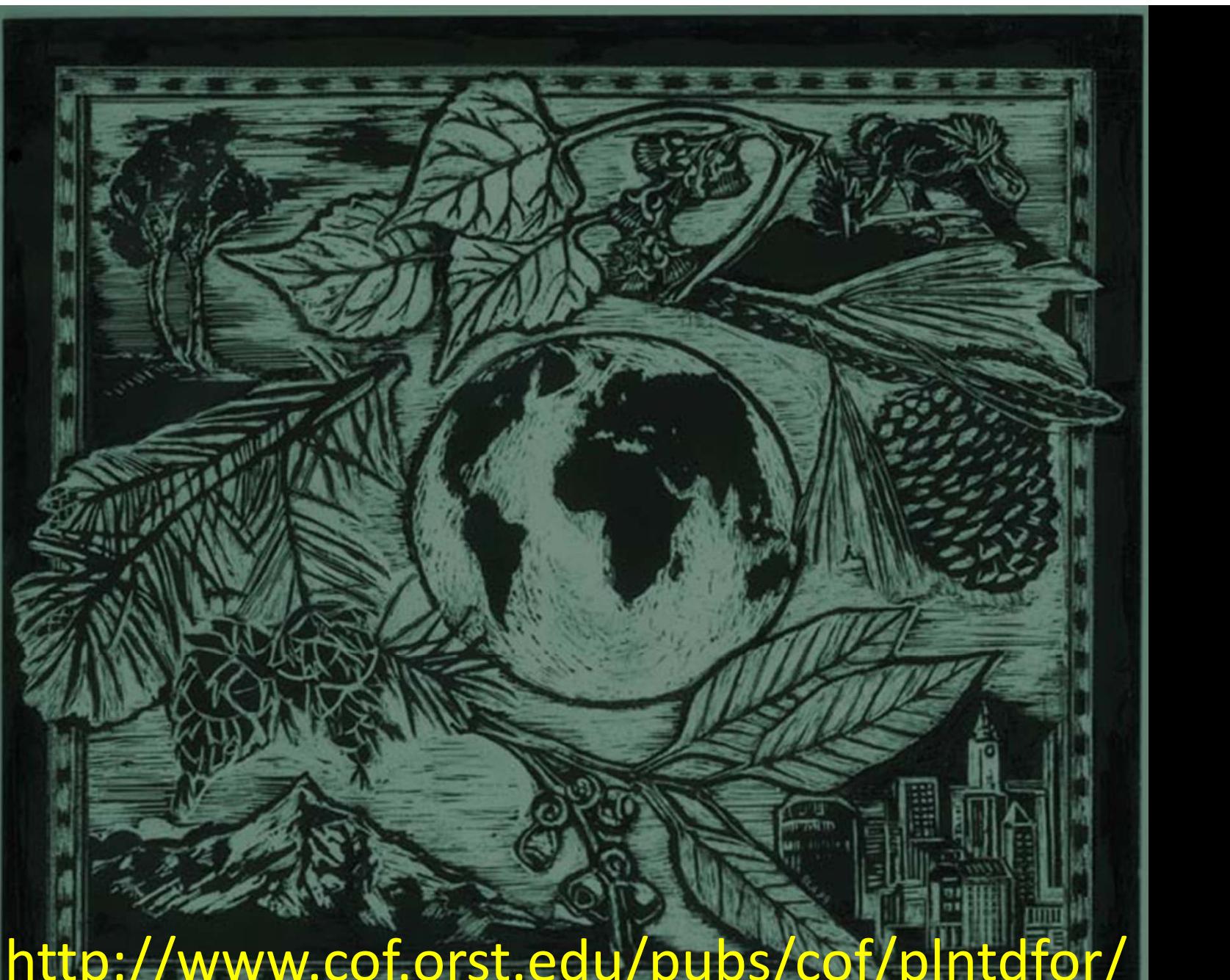










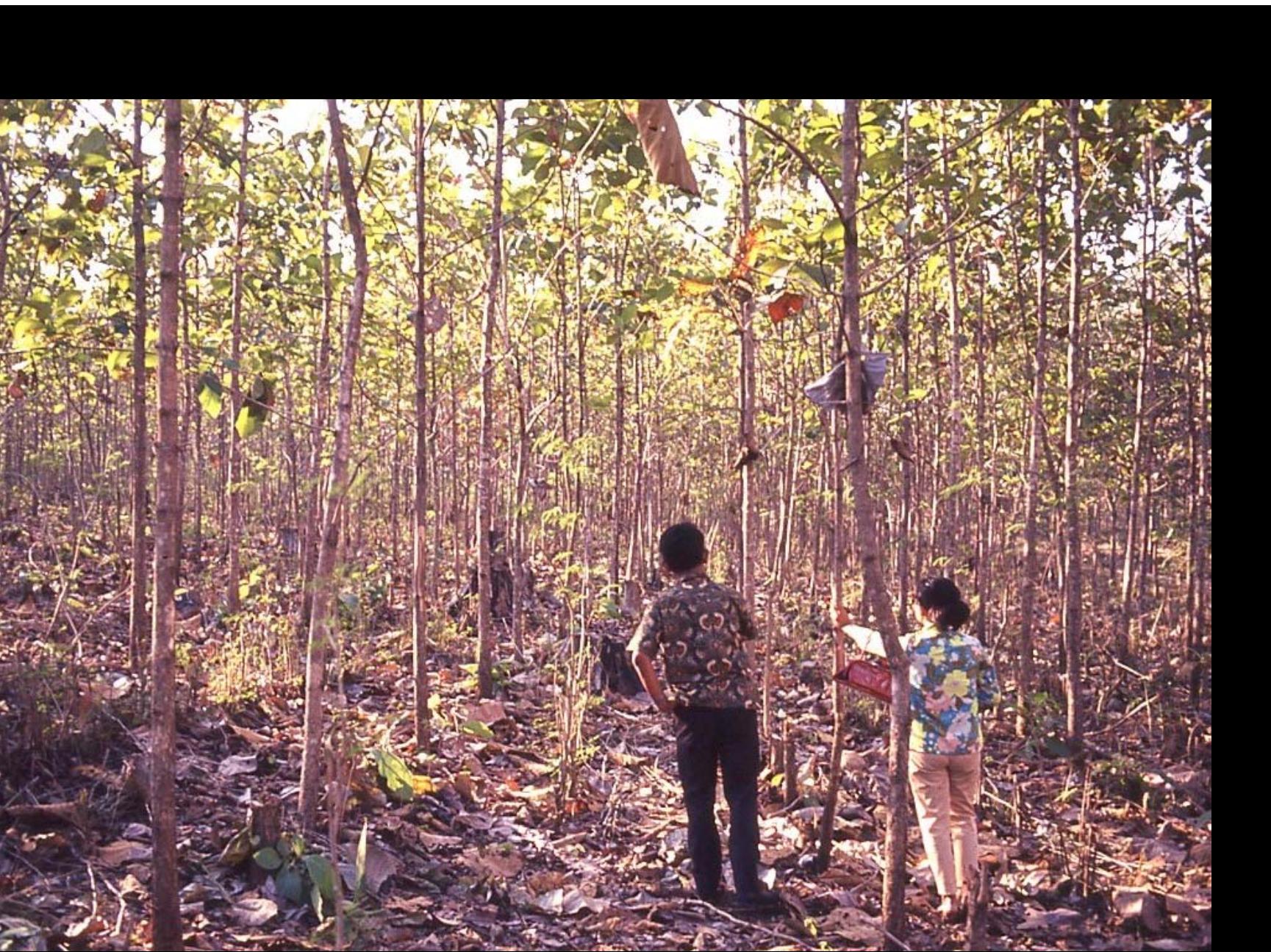


<http://www.cof.orst.edu/pubs/cof/plntdfor/>



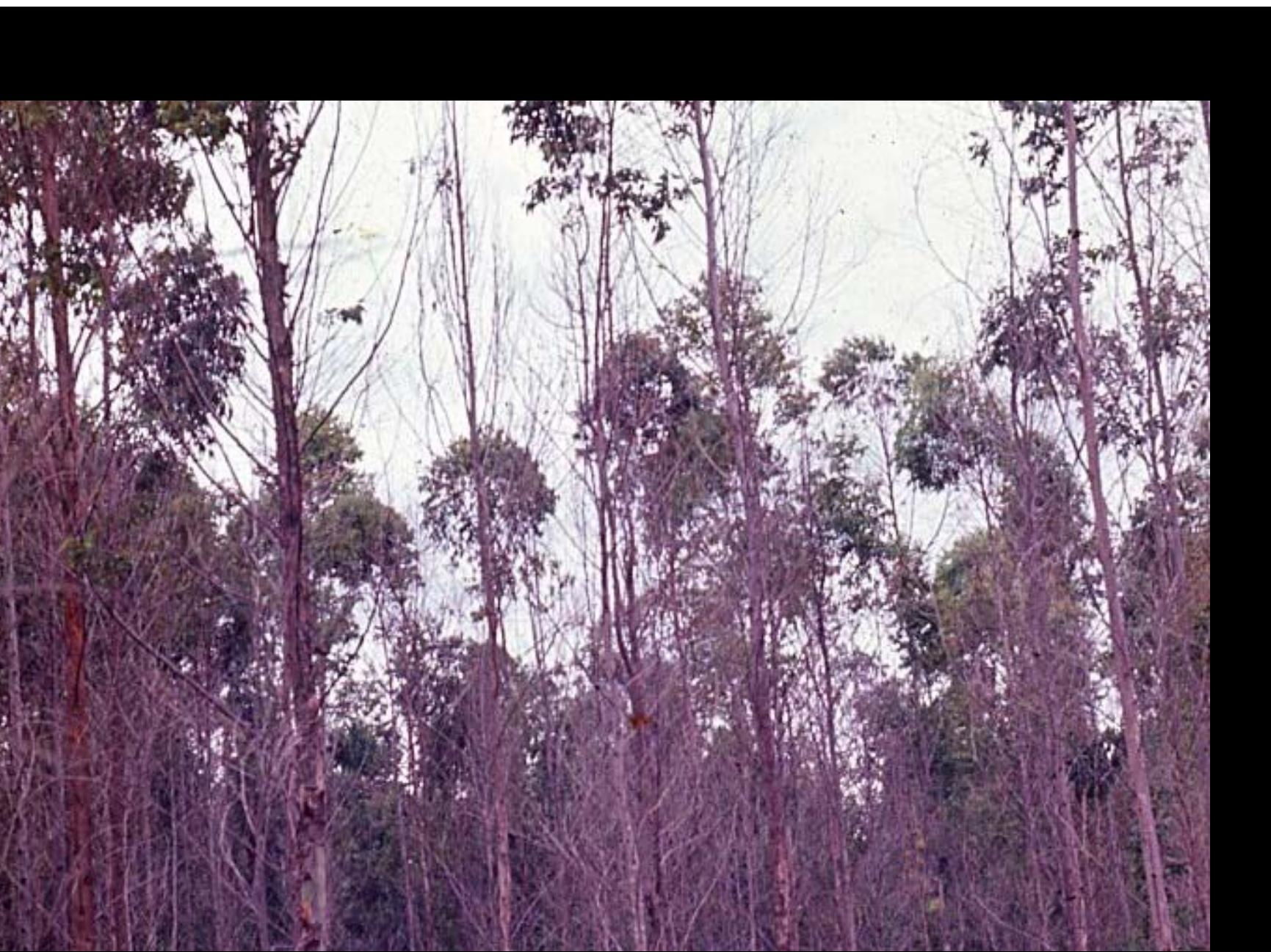


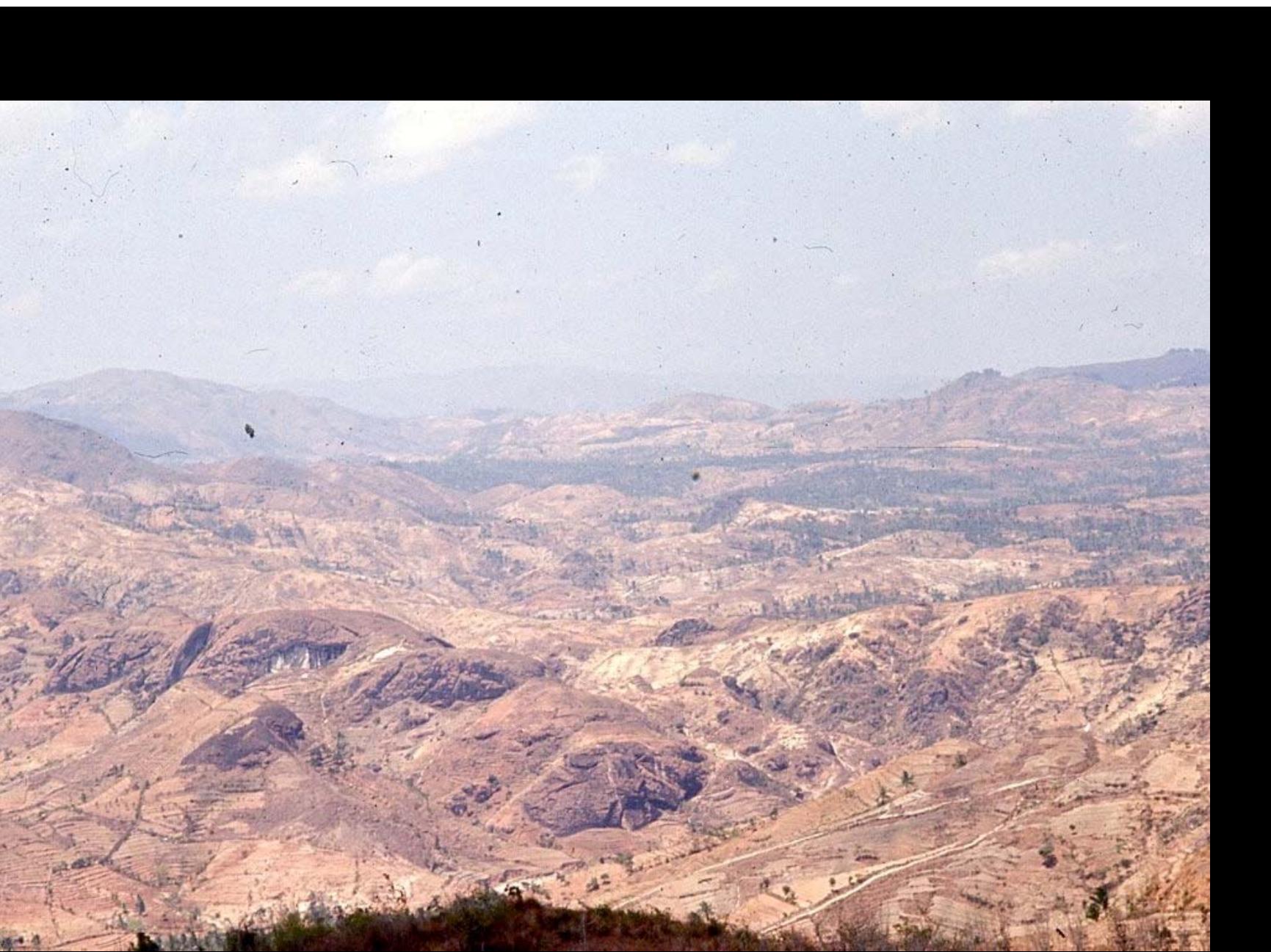












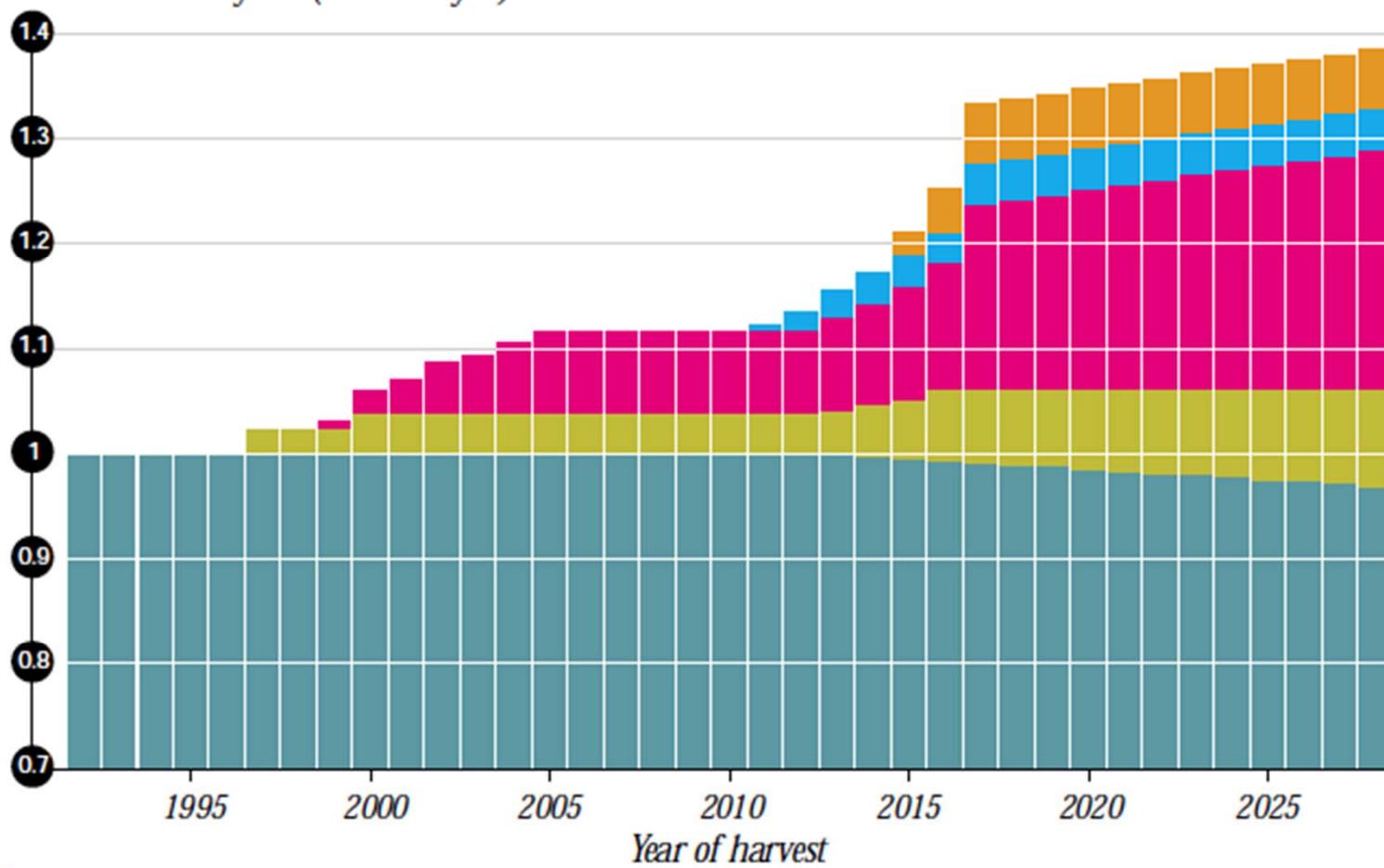






Usutu Forest estimated yield gains 1992-2028

Sustainable yield (million t yr^{-1})



nt base is
s second-
rop yields

New area (1970>) Optimum stocking

Fertilizer use Alternative species

P. patula breeding

important to have roots.  In today's complex world, it's important to branch out.  Don't pine away over old flames.  If you really believe in something, don't be afraid to go out on a limb.  Be flexible so you don't break when a harsh winter comes along.  Sometimes you have to shed your old bark in order to grow new.  If you want to maintain accurate records, keep a logbook. To be politically correct, don't wear firs.  Grow where you're planted.  It's perfectly okay to be a late bloomer. Don't let bad people who would like to cut you down.  Get your groove on and get dressed up when you have a hot date.  If the party gets too wild, just pick up and leaf.  Be sure to cover your bases in the winter.  As you approach the autumn of your life, don't hide your true colors.  It's more important to stand tall than poplar.