



# Young stand thinning = Restoration?



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# Biodiversity

▶ **More is Better**



# Restoration of other Resources

- Ecosystem Services
- “Benefits from nature”

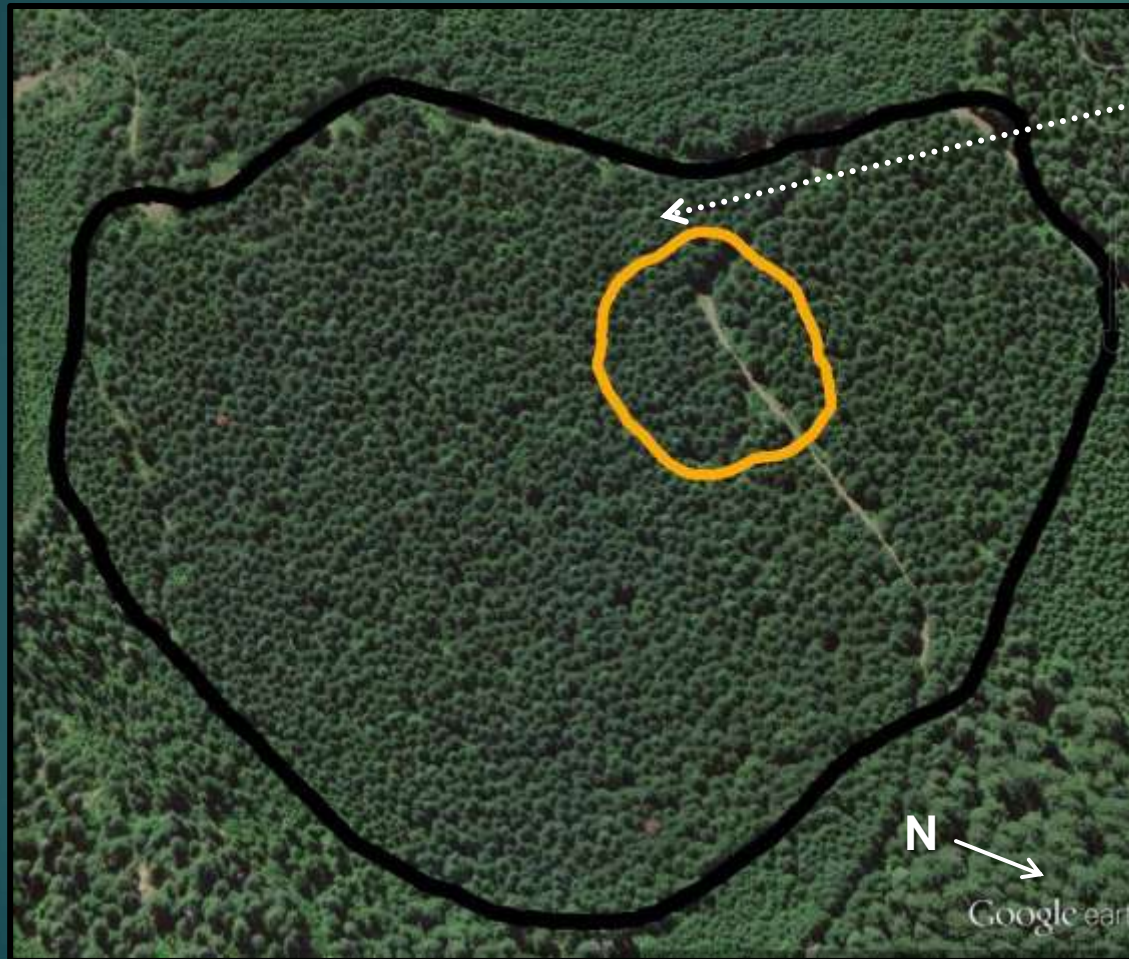


# Commercial Thin

Stand# 8002582

Harvested: 1990  
Harvest Age: 39  
Acres: 63    TPA: 74

4



# Cave man



Ecosystem  
Services

Benefits  
from  
nature

Food

Shelter

Water

# Shelter



~ 3.5 =

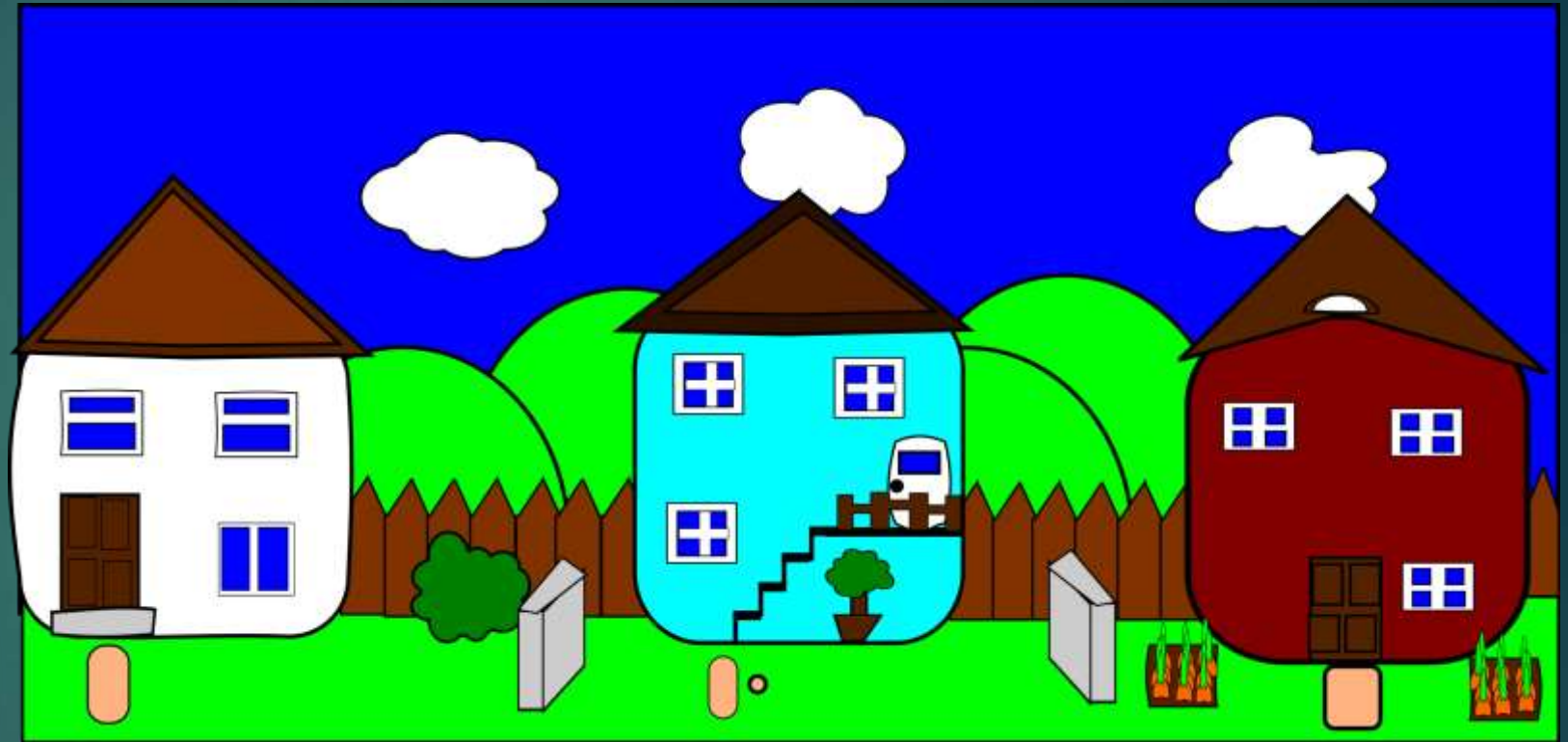




40 acre thinning unit = 30 to 35 houses

7

Housing value increases 5-10% if have a forest in viewshed



Neighborhood

# Water



**Stores 75 gallons  
water**



**20% of nations water supply comes  
from national forest land at a value of  
\$27 billion**



# Group Selection

## Uneven Aged Management Project (UAMP)

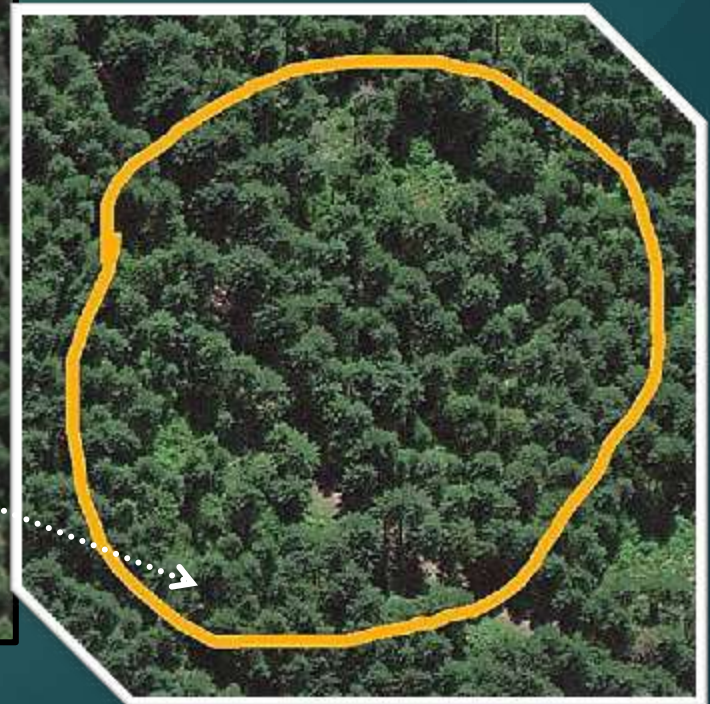
Stand# 1005992

Harvested: 1996

Harvest Age: 46

Acres: 24    TPA:

88



# Food



75% of food crops require pollinators





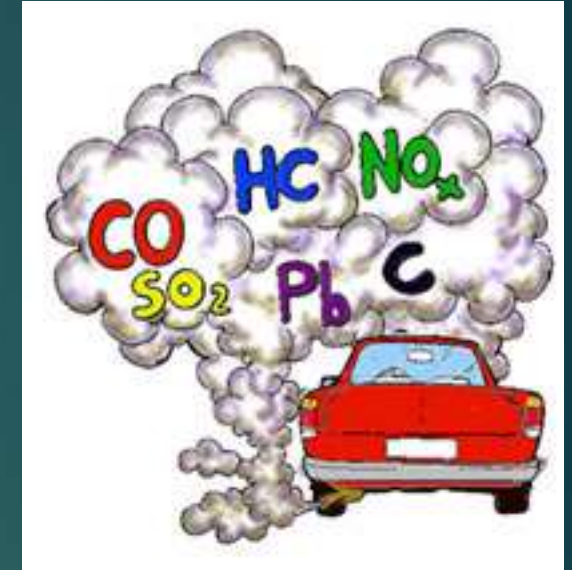
# Environmental Quality



2 ac of  
12" dbh  
trees

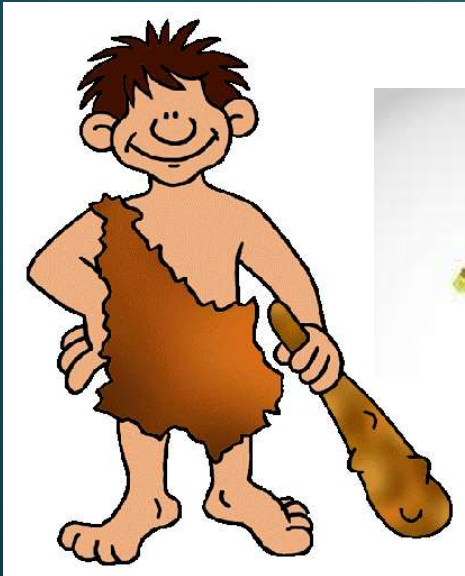


One day



Exhaust from a 20  
mile round trip drive

17% of green house gases emitted  
nationally absorbed by national  
forests each year



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# Economy



**7 jobs for every 1  
mmbf of timber sold**



**\$ 14.5 billion added  
to US economy from  
recreation on  
national forests**

# Ecosystem Services

*The benefits people obtain from ecosystems*

## PROVISIONING

Water (quantity)  
Fuelwood  
Energy & Minerals  
Food & Medicines  
Fiber  
Forage  
Timber  
Range  
Fish and Wildlife

## REGULATING

Carbon sequestration  
Climate regulation  
Soil stabilization  
Watershed services  
(water quality and  
flood control)

## SUPPORTING

Soil formation  
Seed dispersal  
Pollination  
Nutrient cycling

## CULTURAL

Aesthetic values  
Educational values  
Spiritual values  
Cultural heritage  
Recreation / Health



Telling a more complete story.....