

Overview

- Why mushrooms
- About the Farm
- How to grow mushrooms
- Low tech options



Why mushrooms
About the Farm
How to grow mushrooms
Low tech options

Amazing mushrooms!

- More closely related to animals
- Diverse in function and appearance
 - Very important ecosystem functions
 - 1 in³ can contain 8 mi of mycellium









Food!







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Medicine









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Mycoremediation







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Construction

- Began in 2015
- Year-round, indoor
- Certified kitchen
- Heated with wood







Our products







Wild-crafting





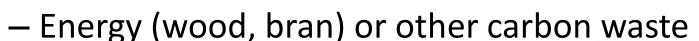






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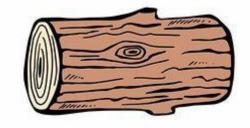
- Mushrooms need:
 - Light
 - Humidity



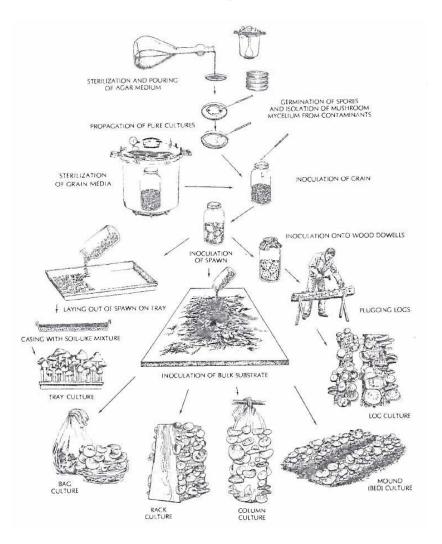
- Warm temperature to colonize
- Cool temperatures to fruit







Growing options





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- Oyster mushrooms on straw
- Cold pasteurization







- All species grow on wood
- Need to sterilize









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Low tech options

- Ready to fruit blocks
- Outdoor cultivation

Ready to fruit blocks

- Skip all those other steps
- Just need fruiting rooms





Outdoor cultivation







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Outdoor garden beds



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Advantages to outdoor

- Low start-up cost
 - No expensive equipment
 - Can be done in backyard
- Low maintenance cost
 - No hydro bills
 - Cooling/heating
 - No cleaning
- Less labour....maybe



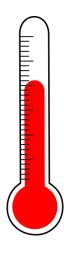
Disadvantages

- No control on temperature
- Large initial labour cost
- Seasonal
- Pests
- Limited on species (climate)
- Need access to hardwood logs



Advantages to indoor

- Temperature control
- Wider variety of species
- Pest control
- All year



Not all mushrooms can be grown

...but we can try







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Questions?



High Co2 environment



Biological efficiency



Garden oysters

