

## ELECTRICAL HAZARDS

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### Indoor Grows

Require a lot of electricity

- Lights
- Fans



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### Electricity Demand

MJ grow requires more electricity than residential wiring can safely supply  
An indoor grow will need 3 – 10 times more electricity than the average home\*



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## Electrical Hazards

Meters are often by-passed from inside the garage

Breaker box or fuse box by-passed

Approximately 1 in 10 bypass operations result in a fire.\*



Meter bypassed from inside the garage.

\* A Growing Danger, Francis Bradley

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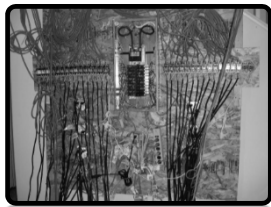
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## Electrical Hazards

Wiring does not meet safety codes  
Illegal wiring at grow ops increase the risk of fire by 40x.\*




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## Electrical Hazards

The size of the wire in the extension cord is often too small for the load

Overloaded extension cords can overheat and cause a fire




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## Electrical Hazards

Multiple ballasts used to run the lights.  
Ballasts can maintain a charge for up to 15 minutes after disconnecting.



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## Electrical Hazards

Older model ballasts may have exposed wiring  
On the floor are subject to liquids and electrical shocks.

- Most growers will elevate ballasts



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## Electrical Hazards

### Water

- Generally a poor conductor
- Impurities in water increase conductivity
  - Acids
  - Bases
  - Pesticides
  - Fertilizers

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## Electrical Hazards

The path of current through the body affects the severity of injury

Most dangerous path

- Heart
- Central Nervous System




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## Electrical Hazards

Many electrical injuries involve current passing from arms to feet

- Typically involves heart and lung damage
- This path is often fatal.



Electrical current through the heart may also induce cardiac arrest

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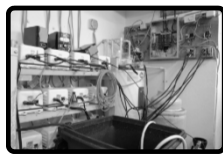
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## Electrical Hazards

Social Services

- Exposed wiring
- Frayed wires
- Grow operations
- Responding to emergency calls




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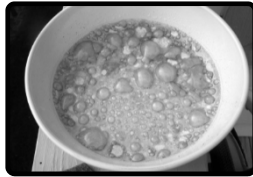
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## Electrical Hazards

### Social Services

Electricity can be a source of ignition

- Clan labs
- THC extractions



BHO extraction

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## Questions?



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