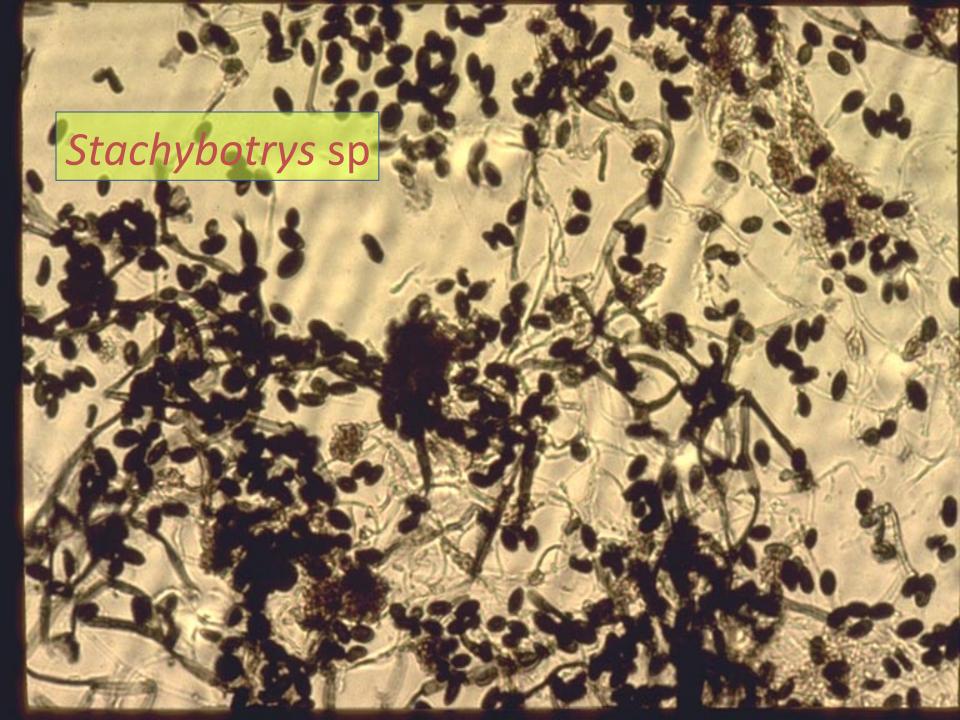
Mac Pearce Environmental Health Consultant

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St. Paul, MN 55114
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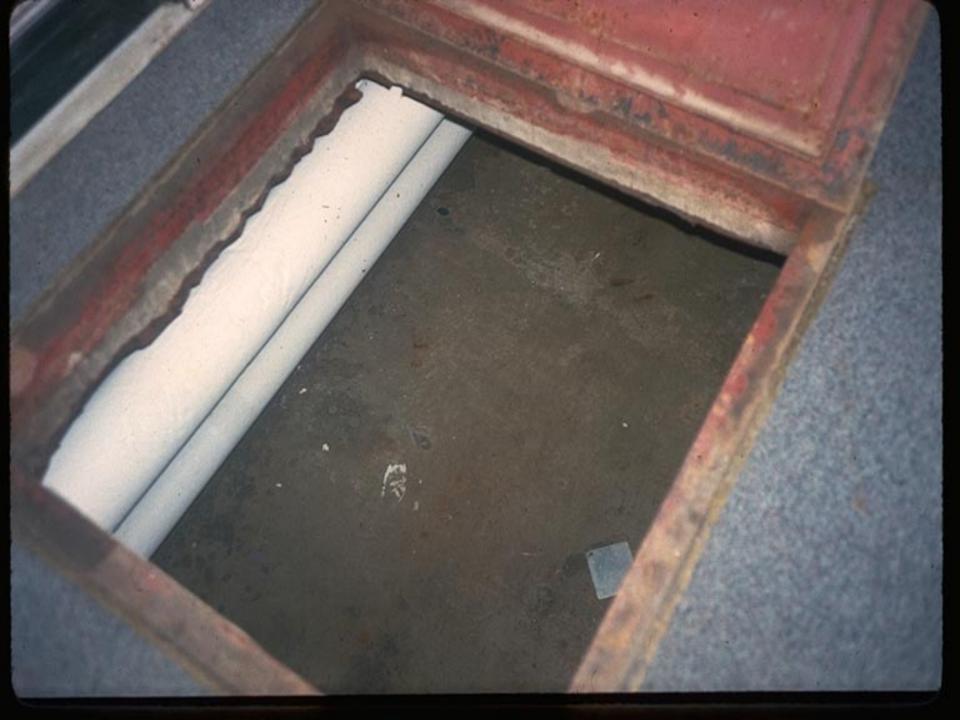


















































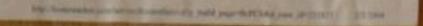


vex" es resbelados y no debe usarse en circunstariosa donde se pudiese caminur activa el mismo. Por esta, DuPort recomienda el uso de gatoss y pera trabajo exterior a aturas moyenes de un piso. Si han de usanse escalarse, es necesario observar y exemplir los requisitos establecidos en fas ANGLIAN, 143 y 145 pera escalaros de madera, elemênio y fêxes de visirio respectivamente.

s cannot. Types" on glasses at 6 he had per hallower dans due applications so sol. En outre, létant donné solé set général DuPont recommende d'utiliser to un schafendage pour les traveux entabure à une hauteur raptrieurs ou premier étage. Si l'un doit sélheur des échalles, il faut prendre soin de tes has regres to shours provinciales decrees dans les morros de l'ANSI 143, 143 et 145 respectivement pour les échelles de bois, d'aluminium et de fibre AVISO: Tyvek" ex community thebe ser protopido de les llamas y de toda temperatura de Tyvek" sicanza los 400 C (750 F), arde y el fuego pueda expa obsener más información. Reme al taléfono 1-200-44TYVEK

MISE EN GARDE: Tyvek" set combuscible at doc être protegé des flammes et . Tyvek" atteint 400 C (750 F), il brüllers, le feu sara alore succeptible de se prop d'inflammation. Pour un aupplément d'informations, appeler le 1 800-847Y/E





WARNING

THE WATER HEATER IN THIS HOUSE HAS BEEN DRAINED ALL DRAINS HAVE BEEN AIR BLOWN

BEFORE WATER IS TURNED ON, BE SURE AND CLOSE ALL VALVES AND TRAPS INSIDE AND OUTSIDE OF THE HOUSE

BE SURE THE WATER HEATER HAS WATER IN IT BEFORE TURNING IT ON. THE UNIT COULD BURN OUT IF IT DOES NOT CONTAIN WATER

THIS PLUMBING SYSTEM WAS WINTERIZED ON 2/9/04

BY SISTACION INC

FIRST PRESTON MANAGEMENT





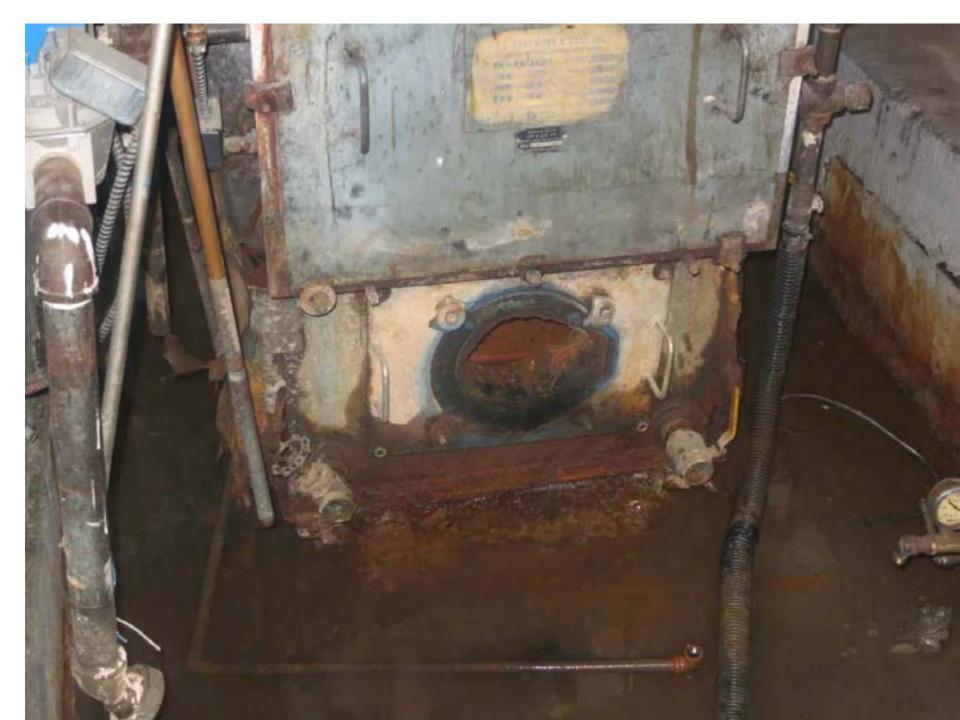
















































































Repairing YourFlooded Home FEMA Guidelines

Don't enter if there is standing water against exterior walls Turn off the electric power

If you have to wade to the breaker box CALL A PRO

Turn off the gas

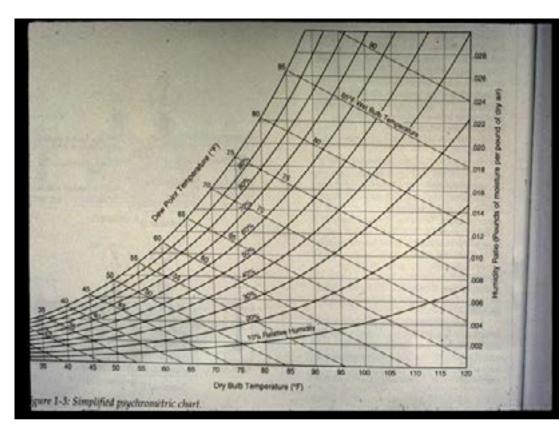
Beware of collapsing ceilings when you first enter If there is sagging, poke holes at edge of bulge Open door and windows if weather permits

Flood clean-up

Cut 2 feet above the water line
Toss everything porous
drywall, carpet, draperies
Wash until rinse water is clear
Soap and water, then bleach
Dry aggressively

The Psychrometric Chart

The dry bulb temperature
The dew point
The wet bulb temperature
The humidity ratio
The relative humidity



How much water vapor in the air in the room?

How much energy is in the air

Water stores and releases energy

Water

3 states under ambient conditions
The biosphere
Growth and destruction
High heat capacity

Moisture Movement

Water goes downhill
Water moves from wet to dry
Water moves from hot to cold
That which obeys Nature is durable

Water changes its form by adding or taking away energy

Heat ice and it melts

(solid to liquid)

Heat water and it evaporates

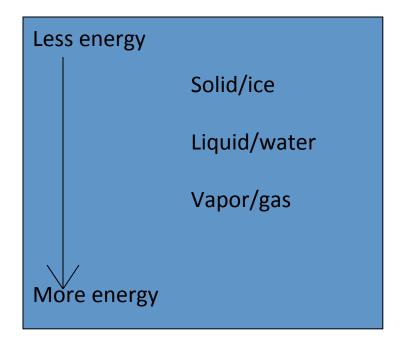
(Liquid to gas)

Cool water vapor and it condenses

(Gas to liquid)

Coll water and it freezes

(Liquid to solid)



Drying requires energy

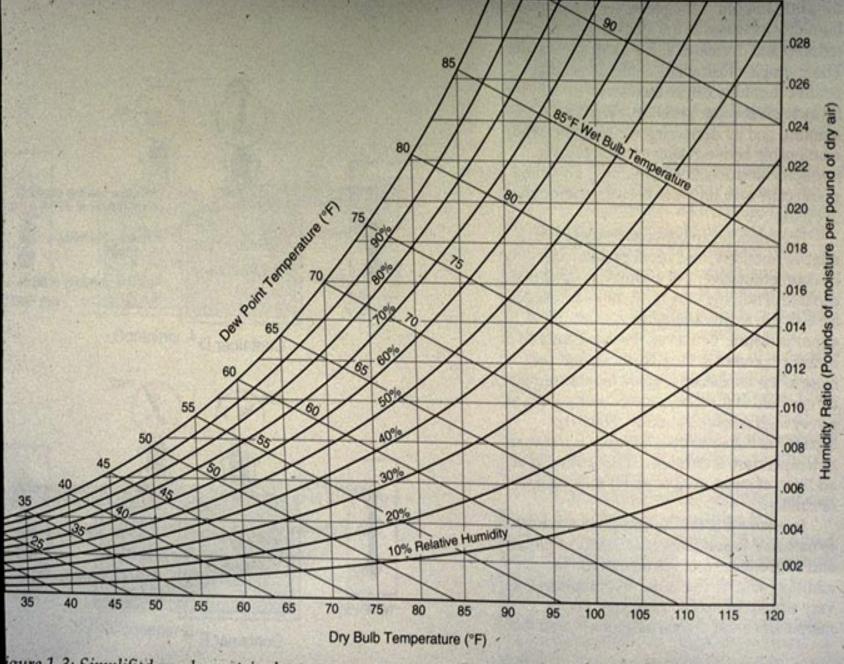
Draining liquid requires gravity or a pump Turning liquid into vapor takes energy Moving air also requires energy If there is no juice get a generator











gure 1-3: Simplified psychrometric chart.



















Effective Water Damage Repairs

Restore property values

Increase comfort

Restore healthful indoor environment

Discovering Mold Problems

Visible growth

Bad smells

Health problems

Environmental test results

Fighting Mold Contamination

Open it up

Dry it out

Tear it out

Clean it up

Seal it up

Clean to dirty air flow

Clean-up Considerations

How wet for how long
If porous and wet, throw it out
Maintain clean to dirty air flow where possible

Elbow grease beats disinfectants

Only sanitize spotless clean surfaces

Pressure washers and dehumidifiers

Use HEPA filtered or exterior exhaust vacuum systems

Is everything spotless--the White Glove Test

Surfaces should be clean and dry before refinishing

Sanitizers

All surfaces must be spotless

Penetration and contact time

Fungicides and fungistatic compounds

Kill it

Remove it

Prevent it

Clearance testing

Who's buying?

Clean air

Clean surfaces

Compared to what?

Idiotic Drying Model

Drying out cotton socks by different methods

Drying race-which method works fastest

Weigh socks

Soak socks

Weigh socks again

Start drying by various methods

Start timer

Weigh stuff now and then to check progress

Method that returns sock to original weight first wins

The Contestants

Wrung out sock outside on the clothes line
Wrung out sock baked in the Oven
Wrung out sock in the clothes dryer
Wrung out sock in the dryer in a plastic bag
Extracted sock in front of a fan
Extracted sock in the dryer

Idiotic Goal

Drying sock back to original dry weight













Oven temperature



OCT 13 2007

Tripidaire





























Drying for Dummies

The wetter stuff, is the longer it takes to dry
It isn't the heat, it's the humidity
Moving air dries faster than still air
Heat is never uniform
The less you think you know the smarter you are
Salesmen don't always mean to lie, but they usually do









