WHY TRAIN PARK PERSONNEL FOR ICE RESCUE?

People cannot watch others parish, they feel a need to help, in doing so they put themselves at great personnel risk by attempting to do a rescue without proper training and equipment.
MINNESOTA VIDEO

Lake Hiawatha
Minneapolis, MN
BENEFITS OF BEING PREPARED

- POSITIVE PUBLIC IMAGE
- INCREASED SAFETY FOR PATRONS AND EMPLOYEES
- INCREASED POTENTIAL FOR A POSITIVE OUTCOME
Recommended Minimum Ice Thickness for New Clear Hard Ice.

No ice is without some risk.

Be sure to measure clear hard ice in several places.

3" (7 cm) or less
STAY OFF!

4" (10 cm)
- ice fishing
- walking
- cross country skiing

5" (12 cm)
- one vehicle
- snowmobile or ATV

8-12" (20-30 cm)
- one vehicle
- car or small pick-up

12-15" (30-38 cm)
- one vehicle
- medium truck
FACTORS AFFECTING ICE STRENGTH

- CURRENT
- WIND
- PLANTS
- WATERFOWL
- NATURAL SPRINGS
- SNOW
- BRIDGES
IS IT SAFE ???
PRE-PLAN

- HOW MANY PARKS HAVE DEVELOPED AN OPERATIONAL PLAN FOR A DROWNING IN THEIR WATER PARKS OR POOLS?

- HOW MANY HAVE EQUIPMENT TO PERFORM A RESCUE?
HAVING A PLAN

- TRAINED ON-SITE RESCUE TEAM
- LOCAL DIVE TEAM
- FIRE DEPARTMENT
- EMERGENCY MEDICAL SERVICES
- LAW ENFORCEMENT
- HELICOPTER
COLD WATER EFFECTS

Stages of Cold Water Immersion:
- Minutes 0: Cold Shock
- Minutes 5: Swim Failure
- Minutes 15: Immersion Hypothermia
- Minutes 30: Post-Immersion Collapse

<table>
<thead>
<tr>
<th>WATER TEMPERATURE</th>
<th>SURVIVAL TIME</th>
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</thead>
<tbody>
<tr>
<td>70°-80°</td>
<td>3 hours - ?</td>
</tr>
<tr>
<td>60°-70°</td>
<td>2-4 hours</td>
</tr>
<tr>
<td>50°-60°</td>
<td>1-4 hours</td>
</tr>
<tr>
<td>40°-50°</td>
<td>1-3 hours</td>
</tr>
<tr>
<td>30°-40°</td>
<td>15-90 MINUTES</td>
</tr>
<tr>
<td>30°-40°</td>
<td>UNDER 15-90 MINUTES</td>
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</tbody>
</table>
COLD WATER NEAR-DROWNING

A New Look At Cold Water Near-Drowning
COLD WATER DROWNING

- WATER TEMPERATURE < 70F

- PER LOCAL MEDICAL CONTROL, TIMES VARY, BUT RECESITATION IS POSSIBLE FOR UP TO 90 MINUTES

- VARIABLES AFFECTING SURVIABLILITY
  - VICTIMS AGE
  - WATER TEMPERATURE
  - SUBMERSION TIME
HYPOTHERMIA: PROUDLOCK EXPERIENCE

- **SYMPTOMS**
  - COLD (PAINFUL)
  - SHIVERING
  - EXTREMITY PAIN
  - LOSS OF DEXTERITY
  - SHIVERING STOPS
  - NAUSEA
  - CONFUSION
    - ASKING REPETITIVE QUESTIONS
  - SCARED
    - UNABLE TO ASSIST IN MY OWN RESCUE
FACTORS AFFECTING THE VICTIMS ABILITY TO ASSIST

- INJURIES
  - SNOWMOBILE CRASHES
  - FALLS

- HYPOTHERMIA
  - UNABLE TO RESPOND
  - UNABLE TO HOLD A LINE OR ROPE
  - ABILITY TO UNDERSTAND COMMANDS
PATOMIC RIVER VIDEO

Air Florida Crash
Washington, D.C.
ICE RESCUE

- SELF RESCUE
- REACH
- THROW
- GO
SELF-RESCUE
TRAINING OF PERSONNELL

- NFPA STANDARDS 1670
- OSHA
- PRIVATE TRAINING ORGANIZATIONS
  - DIVE RESCUE INTERNATIONAL
  - ATLAS OUTFITTERS
- LOCAL FIRE DEPARTMENTS
CONCLUSION

WITH PROPER PLANING, EQUIPMENT, AND TRAINING THE RISK TO PARK PERSONNEL, AND PATRONS CAN BE GREATLY REDUCED.