



DANGER

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WINTER DRIVING



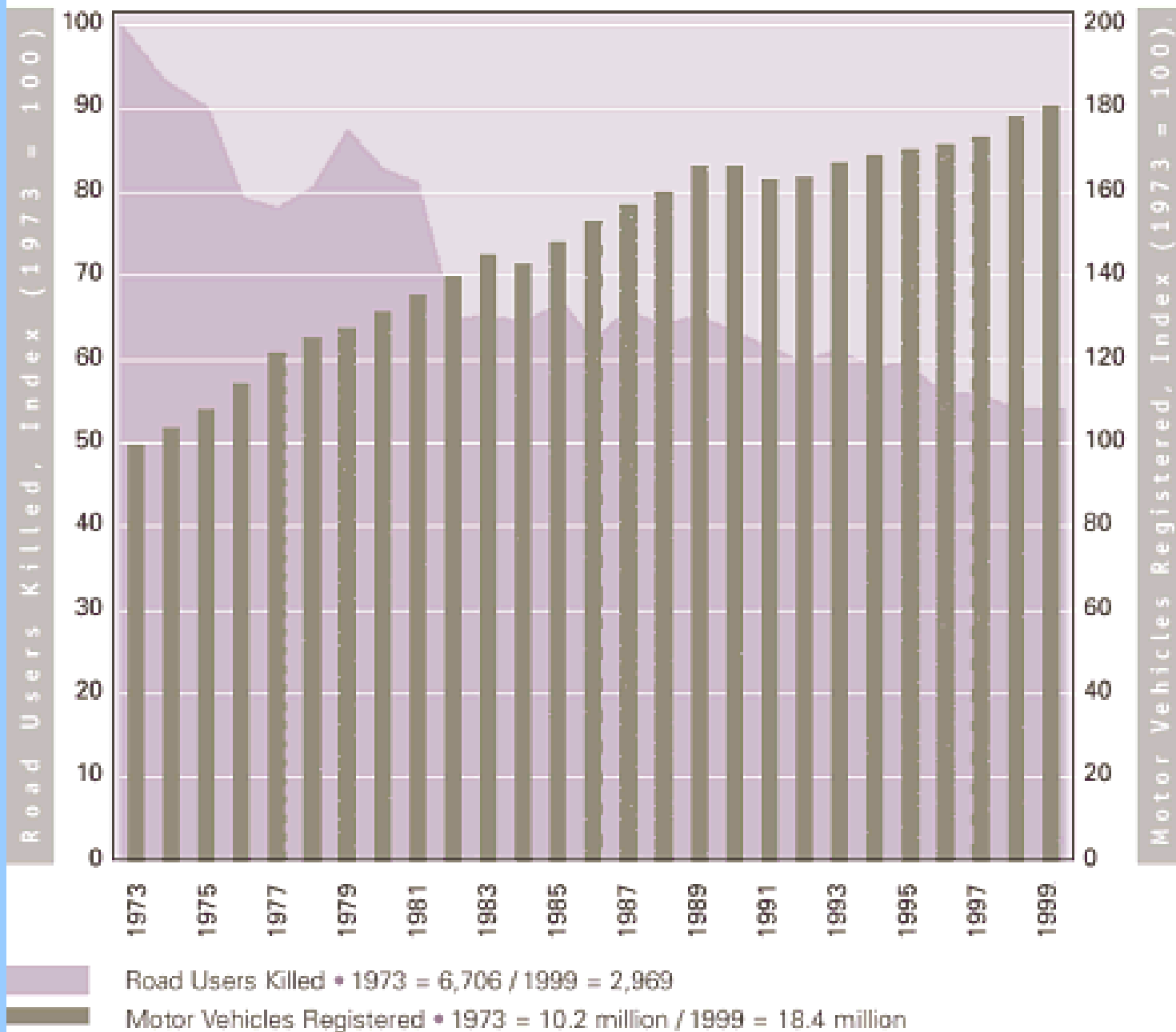
joe-ks.com







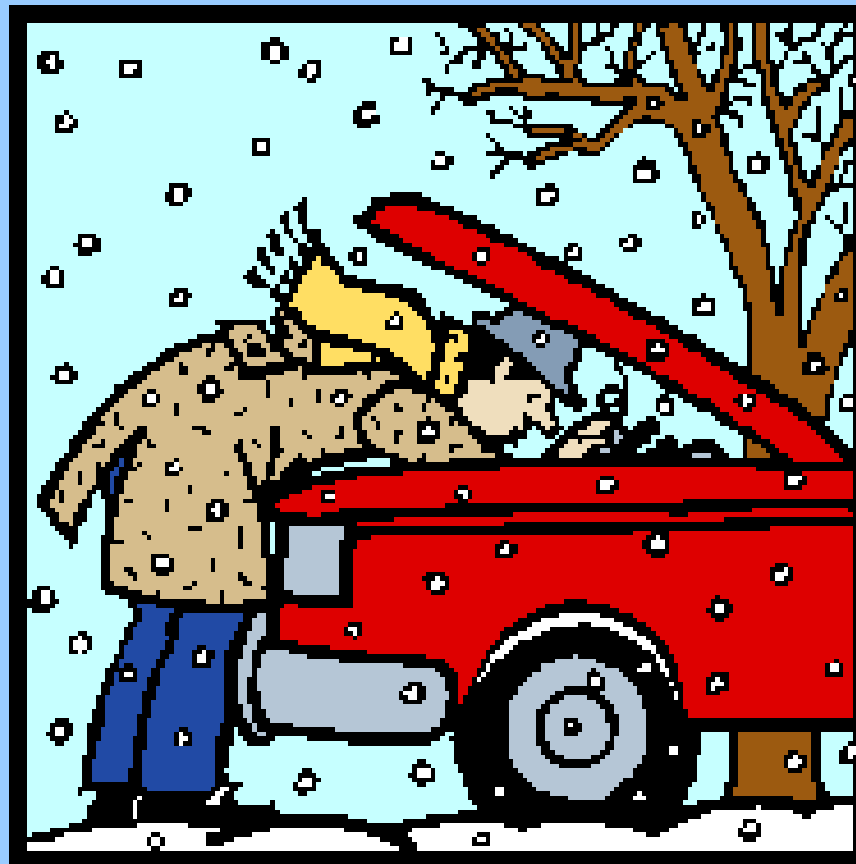
Progress has been steady: Fatalities have decreased, while motor vehicle registrations have increased





Nothing bad....

Automobile Maintenance





Tire Pressure

Oil



**See:
Your car's
Owners Manual
for recommended
oil viscosity**



Check all belts and hoses for wear.

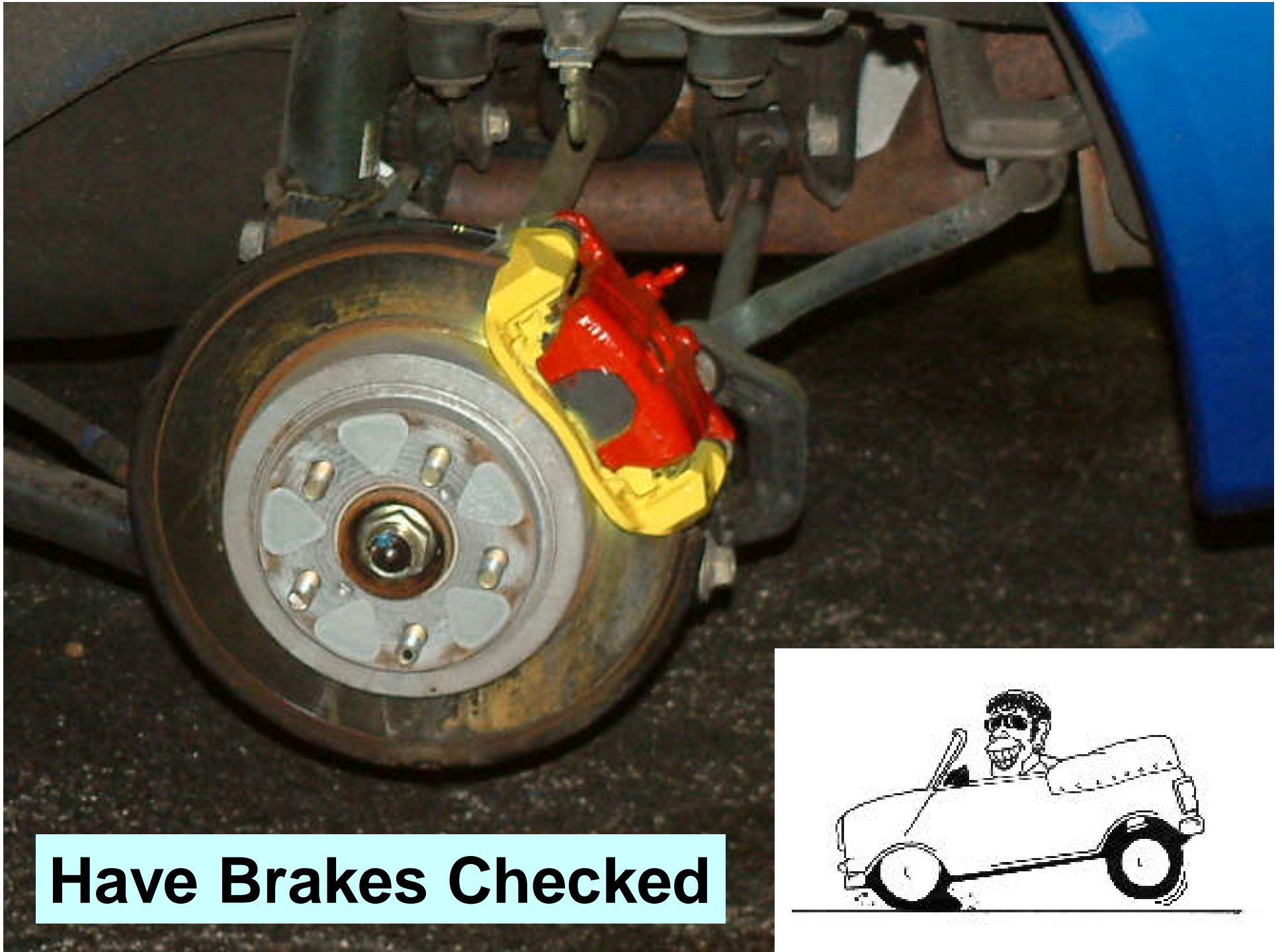


Check & top-up antifreeze, flush if needed.

Wiper Fluid!



- **Fill reservoir
(cold rated: -30°F)**
- **Bring along extra**
- **Check spray nozzles**



Have Brakes Checked





Snow tires on stock 15" wheels:
Medalist 'Winter Kings', 205/60/15





These wheels and tires are FOR SALE. Originally 185/70-14s, but roughly 185/90-14s with the ice screws installed. ~27" OD. Don't worry about clearance, they'll machine their own if need be. Mounted on 14x5.5" Toyota Camry steel wheels that have a 5x114.3 (aka 5x4.5") bolt pattern. Not even close to street legal anywhere on this continent. Racing only. Mail hillman@planet-torque.com. \$150 for the set, located near Chicago.





Safety Equipment List

- Spare **Fluids** (anti-freeze, oil, washer fluid)
- **Ice Scraper**
- **Jumper cables**
- **Flashlight** w/good batteries
- **Shovel** (cheap collapsible one from auto store)
- **Sand/Salt/Kitty Litter/Old carpet** (for traction)
- **Flares**, warning triangle, etc
- **Tools**
- **Blankets**
- **Gloves**, Hat, warm clothes
- **Food & Water**
- **First aid kit**
- **Cell phone**Warmth







Keep lights free of road grime



Keep Tank ½ full to:
- avoid condensation
- keep car warm if you're stuck

Breakdowns

- Very serious in the winter: **cold!**
- **Avoid** with good maintenance
- **Be prepared** to stay warm
 - Run engine every 1 or ½ hour for heat
 - Keep window cracked open for fresh air
 - Keep tailpipe clear
 - Keep air intakes clear

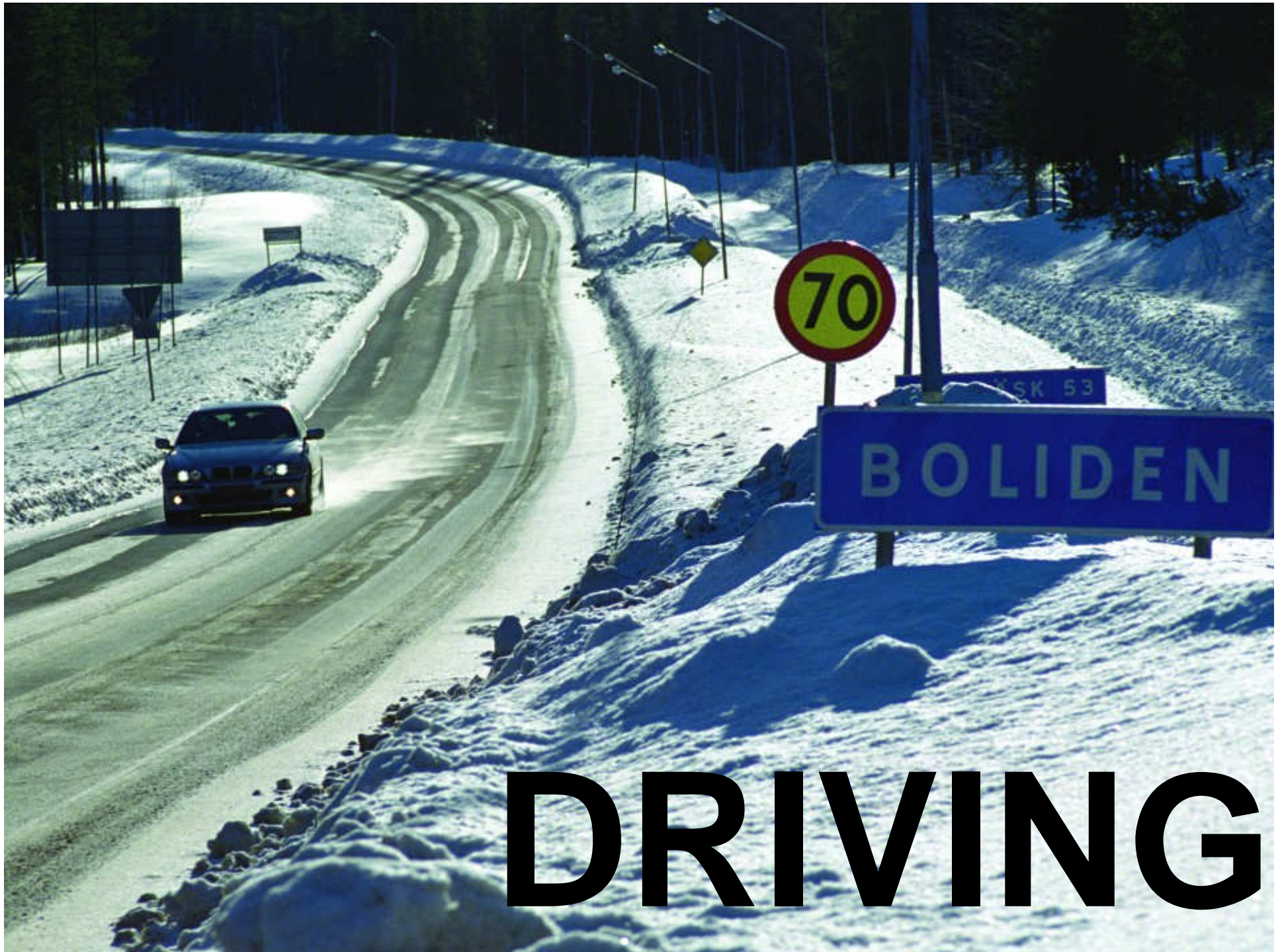




Breakdowns (continued)



- Be careful exiting the car in busy areas
- Stay with your car
- Emergency: State Police, 911
- Roadside Assistance:
 - Better World Club (betterworldclub.com)
 - AAA (become a member!)
- Don't break down on Sundays



DRIVING

Packed Snow





Drifting snow

Deep Snow



Really deep snow!





Solid Ice

Wet...

...with ice?



FOG



DARK

So, unless you have one of these:



Go Slower!



Stay Alert

- Don't drive if over-tired
- No Drugs or Alcohol!
- Both hands on the wheel:
- Anticipate!!



Maintaining Control

- **Anticipate your actions & do them slowly!!**
- **No sudden moves**
 - Braking
 - Acceleration
 - Steering
- **Test brakes** occasionally when the road is wet/snowy/icy. Don't assume you are in control just based on appearances.
- Team O'Neil: one-day **winter driving course** in NH several times a year: “www.teamoneil.com”
- **Practice** in a parking lot

Not Hitting Things

When **NOT** in an empty parking lot, remember:

- It takes longer to stop.
- Use engine braking (downshift)
- You may think you're in control when you're not (black ice, speed, stupidity, etc.), so check!
- Drive like you have egg shells on your feet...
slow transitions!... plan ahead!
- Look farther down the road & anticipate!



Helpful Hints:

- Bridges and overpasses are colder (icier) than the rest of the road.
- Don't use brights/high-beams in a snow storm or in fog.



Four Wheel Drive

- Mostly only helps at low speeds (getting unstuck)
- Doesn't do a damn thing at highway speeds



If you start to turn too far...

- Don't slam on the breaks
- Steer smoothly in the direction you want to go. Don't over-steer.
- Take your foot off the brakes and gently accelerate. (If your car is rear-wheel drive, don't over-accelerate.)
- No "target fixation"



If you try to turn but keep going straight...

- Don't slam on the breaks
- Don't turn the wheels any more. Turning them back toward straight could restore grip.
- Slight acceleration can also help.
- This takes a lot of space.
- Avoid this situation by **ANTICIPATING** the turn (slow down early)

If you get stuck

- Getting out on your own:
 - Straighten wheels
 - clear snow from undercarriage/wheels
 - add traction if necessary: sand, branches, etc.
 - Letting a little air out of the tires can improve traction
 - Use a low gear
 - Rocking the car



***Even Hummers get stuck
(laugh at will)***



Looking for a ride?



Try these guys...

- ***Avis (Union Station)***
- ***Budget (Tweed Airport)***
- ***National (Crown Street)***
- ***Zipcar***
- ***Your friend...***
- ***DON'T FORGET Yale Discounts!***



Enjoy Driving

Drive Safely!

Tashi says...Rock On!



Thank you, MITOC! Many images and words used borrowed from MITOC winter school presentations.