

USAG Rheinland-Pfalz Installation Safety Office (ISO) Winter Drivers Orientation

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Richard Cruikshank, GSP Chief, ISO

U.S.ARMY

Winter Drivers Orientation FY23

Topics

- References
- Contributing Factors
- Tire Rules
- Road Condition Standards
- Weather Effects
- Carbon Monoxide
- Summary













References

Winter Drivers Orientation FY23

AR 600-55 - THE ARMY DRIVER AND OPERATOR STANDARDIZATION PROGRAM

TC 21-305 - TRAINING PROGRAM FOR WHEELED VEHICLE ACCIDENT AVOIDANCE

AER 385-55 - PREVENTION OF MOTOR-VEHICLE ACCIDENTS





Contributing Factors

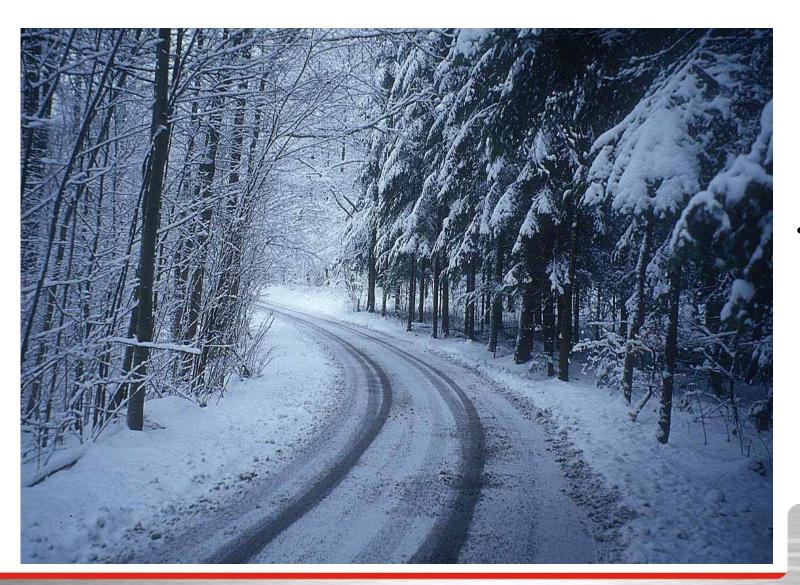


Traction





Contributing Factors



Traction





Contributing Factors

Grade



- When approaching a hill or upgrade / downgrade remember to do the following:
 - Select the proper gear before approaching, usually a lower gear.
 - Use the same gear going down that you used going up. This
 will allow the engine to act as a brake, so you will not have to
 use your brake excessively.



^{*} On steep or very slippery grades, use at least one gear lower, and go slower *



Contributing Factors

Visibility

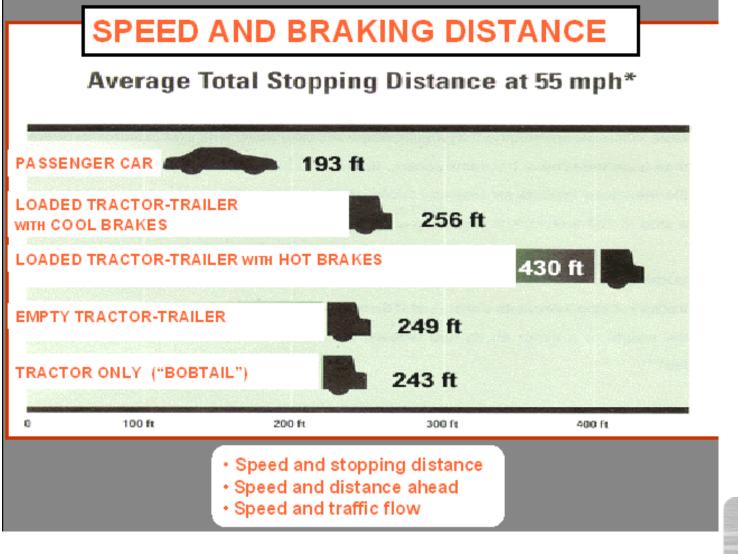
When driving in fog, use lowbeam headlights,

or STOP, GET OFF THE ROADWAY, AND WAIT!!





Contributing Factors

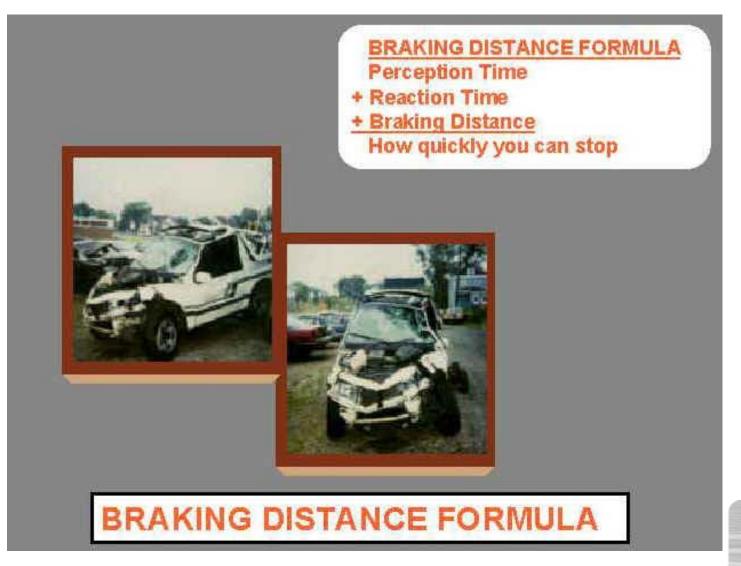








Contributing Factors



Speed





Contributing Factors

THE THREE TYPES OF DISTRACTED DRIVING AND HOW TO AVOID THEM

Distractions

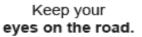
- Cell Phones
- Passengers
- Radio
- Eating/Drinking
- Rubbernecking











Pull over to read directions.

Put your phone in "Do Not Disturb" mode.







Avoid phone calls, even hands-free.

COGNITIVE

Stay focused on the road.

Keep your emotions in check

Keep your phone out of reach.

Make all adjustments before driving.

Don't reach for items while driving.







WINTER TIRE RULES IN GERMANY

When are snow tires required?

German federal law mandates the use of winter tires when conditions are icy. While there is no specific time period during which winter tires are required, many German drivers use the rule of thumb "von O bis O" – from O to O – meaning snow tires should be put on in October and remain on until Ostern (Easter). The laws also apply to motorbikes, trucks and buses, regardless of whether the driver is the owner or is renting the vehicle.

What types of tires are required?

European winter tires have two kinds of markings: a snowflake for snow tires or M+S for tires designed to work in "matsch und schnee"— mud and snow. All-season or all-weather tires may also have the M+S marking and are acceptable for winter driving. Only snow tires without spikes or studs are allowed in Germany. Tires designed for snow function better than multi-purpose tires, and it's best if all four tires match. All tires must have at least 1.6 millimeters of tread depth, but for maximum safety, tires with less than 4 millimeters should be replaced. A one euro coin can be used for a quick "tread check." When placed in the tire's tread, you should not be able to see the golden edge of the coin. If you can, the tire needs to be replaced. The German automobile club ADAC recommends using tires that carry the "three peak mountain" seal, the mark of snow tires that meet the highest standards.

Can tire chains be used in Germany?

In some areas snow chains may be required, but only as directed by road signs or police. The maximum speed while driving a vehicle with chains is 50 kilometers per hour.

What are the penalties for driving without winter tires?

If you get caught driving without the correct tires on your vehicle, you can get a 40-euro ticket. If you cause an accident or create a road hazard or traffic jam as a result of not having the correct tires on your vehicle you can expect an 80-euro ticket and a point against your license. Police can assign blame to a motorist involved in a winter accident whose car does not have snow tires installed, regardless of who caused the accident. In addition, some insurance companies may deny coverage to motorists driving with summer tires on winter roads.

Traveling in Germany or Europe?

Pay attention with rental cars: Don't take for granted that rental cars are equipped with winter tires during the winter season. It is always your responsibility as the driver to ensure that the vehicle you operate is in a roadworthy condition, which includes suitable tires. You should clearly request winter tires when you reserve the car, and verify they are installed before accepting the car. Rental companies may charge an extra fee for winter tires. If your winter vacation takes you to another country, e.g. Austria or Switzerland, check what these countries' rules are. The European Road Safety website is a good resource.

https://ec.europa.eu/transport/road safety/going abroad/index en.htm



Road Condition Standards

| | Table II-1 | |
|---|----------------|------------------------|
| ١ | Road-Condition | Status Characteristics |

| Road Condition | Road Surface | Snow | Ice | Snow Depth | Visibility | Temperature |
|-------------------|------------------|------------------------------|----------------------------|-------------------------------|-----------------------------------|---|
| Green | Dry | None or blowing powder | None | None | More than 164 ft (50 m) | Above 35 °F (+2 °C) |
| Amber | Wet | *Packed *Slush | *Patches *Black ice *Slush | *Less than 4 in (10 cm) | *Between 65.5-164 ft (20-50 m) | Between 30 °F (-1 °C) and 35 °F (+2 °C) |
| Red | *Flooded | *Drifting | *Sheet ice | *Between 4-8 in (10-20 cm) | *Between 50-65.5 ft (15-20 m) | Between 10 °F (-12 °C) and 30 °F (-1 °C) |
| Black | *Heavily flooded | *Heavy drifting | *Extreme sheet ice | *More than 8 in (20 cm) | *Less than 50 ft (15 m) | Less than 10 °F (-12 °C) |

When one or more of the road conditions marked with an asterisk are noted, the corresponding road-condition status must be declared.

Green- Unrestricted vehicle dispatches are authorized.

Amber- Unit commanders (captains and above) may authorize dispatches for their vehicles and garrison directors of public works

(DPWs) or primary staff (S1, S2, S3, and S4) may authorize their vehicle dispatches.

Red- Only mission-essential and emergency-essential vehicle dispatches are authorized.

Black- Only emergency-essential vehicle dispatches are authorized.





Weather Effects on Equipment

- Cold weather can cause parts to seize and lubricants become less effective.
 - Do not race the engine



- Snow and ice will reduce visibility.
 - Clean all lights
 - Scrape all windows and mirrors
 - Sweep snow away



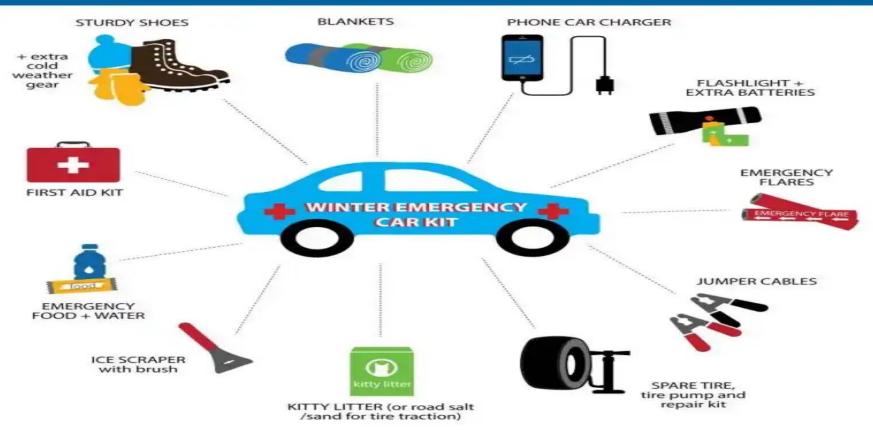


Weather Effects on People



WINTER DRIVING SAFETY KIT:

Take stock of your **vehicle emergency supplies** to be as prepared as possible for winter weather emergencies







Carbon Monoxide

- Carbon Monoxide Poisoning Invisible/Odorless
 - Do not idle you vehicle any longer than necessary and never sleep in an idling automobile unless it is designed for that purpose.





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Summary

- ✓ Cold weather greatly affects the operating performance of your equipment.
- ✓Winter weather presents unique hazards, i.e., snow, slush, ice, black ice, etc...
- ✓ Drivers must always exercise extreme caution for safe winter driving.
- **✓INCREASE INTERVALS!**
- ✓SLOW DOWN!

