## Snow removal costly, even when it's light

INTER maintenance of highways and streets is expensive. During the 1985-86 winter season, ice and snow removal in Michigan cost approximately \$92 million.

Lurng the 1965-86 winter season, ice and snow removal in Michigan exit approximately 502 million. Michigan's 83 counties spent a to-tal of \$60 million. Its 534 cities and willages spent the remaining 332 million. Last season's biggest spenders, were: Detroit, 35 million; Oakland County, 44 million; and Wayne Coun-y, 335 million of the Local Service Difference is an enormously ex-pansion of Michigan Department of Transportation (MDOT) said the ex-pansion area fact of life. "Winter maintenance is an enormously ex-pansive business, and the costs are here to stay", the said. The cost for snow and ice removal so linches of snowfail per year, while Houghton County in the Upper Pen-neusian area spends a \$1 million coeping roads open." Isolar said. Bighway snow and ice removal ispending is peged to traffic volume, iar said. "Oakland County with the largest county road system in the state spends more morey because traffic volumes are hard."

## our land Wright

rying 5,000 to 40,000 vehicles a day — get first attention. Depending on snow or ice accumu-lations, crews sall or plow roads plowed until hey achieve 75 percent bare pavement — pavement cleared enough for traffic to travel at nor-mai speeds salely. Trucks then move to lesser priori-ty routes, such as roads used by school buses, and last subdivisions. In extreme conditions, additional equipment can be brough into ser-vice for a total force of more than 100 vehicles.

equipment can be prought into ser-vice for a total force of more than 100 vehicles. Sait and sand used on state high-ways and county roads in Oakland County cost an average of \$1 million a year. A ton of rock sait will cost about \$1.52 this year, down from last year's average of \$19.45. Some \$1,000 tons are expected to be need-ed.

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CRITICAL ROUTES - those car-

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ed. ABOUT HALF of the costs of Oak-land's winter maintenance bill are for state bighways, Pajot said. These costs will be reimbursed by MDOT, which contracts with the road com-mission for service of its 299 miles of trunklines in the county. The rest of the winter mainte-nance costs are paid from a state form which egasoline and weight tax weeness. The Road Continission budgets money will be set saide for snow and less roney for repairing and bulge tes money for repairing and bulgets ment winter maintenance funds with added taxes. We don't do it," he said.



Thursday, December 10, 1987 U&E

push it back and block you in. Snow-shoveling tip: Move piles to the RIGHT side of the driveway, so the snowplow won't

aleof

11.1.1.1 USASI DI STALLY TRANSPOSS

## **Driveway holds** tons of snow

HE FARMER'S Almanac predicts record snowfalls for much of the snowbolt this winter.

Four inches of snow on a 50-foot, two-car driveway can weigh as much as four tons. So homeowners should "proceed with caution" when choughing

should "proceed with Caution when baveling. Each year at this time I vividly remember two good friends who died while shoveling snow, one a col-lege professor, the other a physician. I also recall reading that name mem collapsed and died while clearing snow near their homes in one day. As a reminder of the potential danger of snow shoveling, cut out and past this label to your snow sho-vel.

THE ASSOCIATION between sow shoveling and heart attack or sudden death is probably no coincl-dence. Snow shoveling is an ex-tremely strenaous activity. It com-bines pushing, litting, tarting and throwing. Depending on the weight of the snow and the shoveling rate, anow shoveling requires between six and is times the resting energy expend-tiver, equivalent to playing singles tennis or running at 9 mph pace, re-spectively.

spectively. For people who are out-of-shape and unaccustomed to vigorous physi-cal activity, these levels of exertion may require maximal or supramaxi-mal efforts.

IN ADDITION to the high levels of energy expenditure, snow shoveling puts excessive demands on the heart. Four factors increase these de-

• The labor of upper extremity exercise. • Straining to lift or push heavy loads.

breath holding.
inhalation of or exposure to

inhalation of or exposure to cold air.
These factors markedly increase the beart rate and blood pressure re-sponses to effort. As a result, people' with known or intent heart disease may experience insufficient oxygen



delivery to the heart muscle, chest pain or potentially dangerous heart rhythm disturbances.

HERE ARE several recommenda-tions to people who are considering clearing their walks or driveways of snow: • Hire someone to do it for you. Elderity people, individuals with high blood pressure or those with beart disease simply should not shovel room

disease simply should not abovel show. • Pace yourself. Speed is not of the essence when shoveling. Adopt an interval or work-rest approach. Take frequent breaks. • Start gradually. Avoid sudden interval or work-rest approach. • Use your arms, and lift modest into a start and lift modest impact of a sudd into a start. • Wear a cold weather breaking mask or scart to avoid inhuling cold air or exposing the face and peck to the start of the start.

it.

Avoid large meals, alcohol and tobacco both before and after sho-veling.
Dress in several light layers rather than one heavy layer. This al-lows you to add or subtract clothing

lows you to add or subtract clouing as you work. Wear a hat while showeling. A great deal of body heat is otherwise lost through an ergosed head. Take extra precaution when the wind is blowing. Temperature alone is not a reliable index of the cold. The cooling effect may be con-iderably lower when the "wind chill factor" is considered.

Barry A. Franklin, Ph.D. is di-rector of cardiac rehabilitation and exercise laboratorics, Wil-ham Beaumont Hospital, Royal Oak, and associate professor of physiology, Wayne State Univer-sity School of Medicine.





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