

This winter's extreme weather not unusual

The winter weather that has been front page news across the state and nation for weeks is not that unusual, says the state climatologist, who is an Oregon State University atmospheric science professor.

"One shouldn't look for extraordinary explanations," advises Dr. Allan H. Murphy, the state climatologist and 1980 winner of the American Meteorological Society's award for outstanding con-

tributions to the advancement of applied meteorology.

"Weather events are highly variable over time and the distribution of these events includes a variety of extreme conditions. This year simply contains a relatively large number of such events. We've had years like this one in the past, old timers will tell you, and we can expect to experience them again in the future."

Meanwhile, OSU is

pushing ahead with research programs related to weather and climate that have received national and international attention.

Weather and climate are the focus of a score of research projects in the Department of Atmospheric Sciences. The department and the companion Climatic Research Institute, both of which are directed by Dr. W. Lawrence Gates, currently have research grants totaling about \$2 million. Six

years ago, the departmental research total was \$100,000.

The research on weather and climate is highly varied — some very practical and meant for the moment, some more theoretical and looking to the coming centuries, Gates noted.

Studies underway include pioneer work in wind power developments and the gathering of sun data to help bring Northwest advances in solar energy. OSU's work has set the stage for development work with wind power in both the Northwest and the nation, Gates said. The world's largest wind turbines are now operating in southeastern Washington at sites identified by OSU as the best places to turn wind into electricity.

And the OSU solar energy field research facility near campus is perhaps the best such site in the U.S. Gates believes.

On the local scene, OSU atmospheric scientists are also seeking ways to help solve the air pollution problems associated with forest slash and grass seed fire burning.

Because accurate weather data and forecasts are so vital to farmers, foresters, fishermen, builders, travelers and people in general who are making business and personal plans, OSU atmospheric researchers are seeking ways to maximize the beneficial use of weather and climate information and predictions so that readers and listeners can interpret them best.

To support the position of state climatologist, the department is seeking to develop "a good computerized set of data" so better and quicker answers can be given to questions about Oregon weather and climate, says Gates and Murphy.

On a global scale, OSU

researchers are studying clouds in the tropics and charting their impact on the atmosphere and weather over a wide scale.

OSU atmospheric scientists are also conducting studies of the interaction between the atmosphere and the ocean. Such studies provide the best hope for advances in long-range weather forecasting in the future, Gates believes.

The boundary layer of the atmosphere — the layer

of air nearest the earth — is getting particular study from the university's atmospheric scientists. Its behavior is the key to understanding the behavior and role of low-level mixing and turbulence in air pollution problems.

The ice fields in the world also affect climate and weather, and are the focus of yet another OSU research project. Here the

researchers hope to be able to better understand how sea ice grows and affects the weather, and how the land-based ice sheets develop over long time periods.

For example, about 18,000 years ago, there was a maximum coverage of ice in North America and Northern Europe, which has since retreated just to Greenland and Antarctica, Gates noted.

Cross-country ski lessons offered

Intermediate cross-country ski lessons will be taught Feb. 27 to March 1 by Keep Listening Wilderness Trips for Women. The three day weekend is aimed toward women who want to improve their cross-country downhill techniques. Basic skills will be reviewed and

new skills taught. Gaining command of the telemark turn will be emphasized.

In addition to instruction, Keep Listening Wilderness Trips for women will provide meals and lodging in a Mt. Hood cabin Saturday and Sunday nights, Feb. 27 and 28.

Participants must fur-

nish their own ski equipment. The cost of the weekend is \$80. The registration deadline is Feb. 24.

Keep Listening Wilderness Trips for Women is a non-profit, educational organization. It offers year-round outdoor activities for women.

On the local scene, OSU atmospheric scientists are also seeking ways to help solve the air pollution problems associated with forest slash and grass seed fire burning.

Neighborhood group to meet

The Boring Neighborhood Advisory Committee will hold its next meeting Tuesday, February 23 at 7:30 p.m. in the Boring Fire Station.

The committee will be deciding on the design for "Welcome to Boring" signs to be placed on the four main roads leading to the downtown commercial

area of Boring.

The decision was postponed to the February meeting due to the committee's desire to further publicize the sign project.

The signs will be approximately three by three feet and will be made out of metal or wood, depending on design and cost, as well as sturdiness of the sign.

Anyone in the community may submit a design by bringing it to the meeting.

The committee will also be reviewing where sidewalks are needed in the downtown area. The status of the park, drainage, and street improvement projects will also be discussed.

The committee meetings are open to the public.

Lowest prices in town on meat,

Saver Shield Special
WESTERN FAMILY
CHUNK TUNA
19¢
*Oil
*Water
6 1/2 OZ.

Saver Shield Special
ARMOUR
PAN-SIZE BACON
69¢
12 OZ. PKG.

Saver Shield Special
WESTERN FAMILY
MACARONI & CHEESE
3/9¢
7 1/2 OZ. Dinners

Saver Shield Special
WESTERN FAMILY
FRESH AA LARGE EGGS
19¢
Dozen

Saver Shield Special
DARIGOLD
FRESH BUTTER
99¢
1 LB. CUBES

Saver Shield Special
DISH DETERGENT
CRYSTAL WHITE
59¢
48 OZ. *White *Lemon

Saver Shield Special
CHARMIN BATH TISSUE
39¢
4 Roll Pkg.

Saver Shield Special
SHUR-FLAVOR
ASSORTED SHERBETS
59¢
Half Gal.

Saver Shield Special
MORRELL
ALL MEAT WIENERS
69¢
1 LB. PKG.

Saver Shield Special
SUNSHINE
GRAHAM CRACKERS
9¢
16 OZ. PKG.

GROUND BEEF

LIMIT: 5 LBS. NOT TO EXCEED 30% FAT

99¢
LB

149¢
LB

99¢
EA

HAM-BURGER BUNS 8 PACK **59¢**

SPARERIBS Country Style, or Loin End Pork Roast **149¢**

PORK CHOPS Thin or Thick Center Cut **169¢**

PORK LOIN Half or Whole **139¢**

ROUND STEAK USDA Choice Boneless Beef **248¢**

CANADIAN BACON Mr. Turkey **259¢**

SMOKED SAUSAGE Mr. Turkey **198¢**

DRUMSTICKS Turkey **49¢**

HAM SHANKS **88¢**

SHRIMP MEAT Oregon Salad Size **549¢**

Deli Delights
BUDDIG ASSORTED
THIN-SLICED LUNCHEAT
2 1/2 OUNCE **3/\$1**

BALL PARK FRANKS HYGRADE'S 16 OUNCE PACKAGE **168¢**

CORN KING, LB **98¢**

BRAUNSCHWEIGER **98¢**

ALEX, 14 OUNCE **49¢**

CORN TORTILLAS **49¢**

Dairy Specials
SAFFOLA MARGARINE MARGARINE 1 LB
Soft Saffola **98¢**
Cubed Saffola **79¢**

WESTERN FAMILY SHARP, 12 OZ. **CHEDDAR CHEESE** **199¢**

Gouda, Car Gouda, Edam, Sm, Edam 7 oz. **MAY-BUD CHEESE** **159¢**

CACHE VALLEY, HOT, 2 LB. **PEPPER CHEESE** **399¢**

Frozen Food Buys

VAN DE KAMP'S

Fish Fillets 12 OZ. **199¢**

Fish Kabobs 16 OZ. **199¢**

Mex. Dinners Reg./Comb. 11-12 OZ. **99¢**

Enchiladas Beef/Chase 12 OZ. **99¢**

TREE TOP APPLE JUICE 12 OZ. **89¢**

HOMESTYLE, EGGO **WAFFLES** 17 OZ. **89¢**

Beverage Features
REGULAR OR RC100
RC COLA or A & W ROOT BEER 8 PACK, 16 OUNCE **219¢**

12 PACK 12 OZ. BTLs. **OLYMPIA BEER** **379¢**

Chen. Bl. Cab. Sav. Fr. Colum. Zinfandel 1.5 LITER **COLONY CLASSIC WINES** **349¢**

15 oz. Dog or Cat Cottage Pet Food Case of 24...\$4.79 **51¢**

County Kist 10 1/2 oz. Asparagus Cut Spears Half case of 12...\$8.09 Full case of 24...\$15.99 **69¢**

HUNTS WHOLE 14 1/2 OUNCE TIN NEW POTATOES **89¢**

WESTERN FAMILY 10 1/2 OUNCE TIN TOMATO SOUP **4 \$1**

WESTERN FAMILY NEW ENGLAND 15 OUNCE TIN CLAM CHOWDER **79¢**

SPINACH FRESH CALIFORNIA **299¢**

GRAPEFRUIT TEXAS RUBY RED **599¢**

PRIMROSES ASSORTED COLORS 4 IN. POT. EA. **89¢**

SALE PRICES ARE EFFECTIVE FOR 2 WEEKS! FEB. 17TH THRU MAR. 2ND.

SWEET, SEEDLESS CHOICE NAVAL ORANGES **499¢**

CALIFORNIA CHOICE RIPE LEMONS **799¢**

LETTUCE

CRISP, GREEN HEADS FROM CALIFORNIA

299¢

FOR

SANDY SENTRY

EASY TO USE SHOPPING LISTS OF ALL CANNED FOOD SPECIALS ARE AVAILABLE AT YOUR NEARBY SENTRY!

39180 Pioneer in Sandy. 668-7418