

Advice Given About Changing the Weather

By JOSEPH L. MYLER
United Press International
Washington — (UPI) — Man
some day may find out how
to make big changes in the
weather.

But before he attempts to
do so, scientists warn, he
had better:

— Make certain that the
changes will be beneficial.
Ill-advised messing with the
weather could generate ap-
palling disasters.

— Plan nothing except by
international agreement.
Any large-scale alteration
of the weather patterns will
affect many — perhaps all —
of the world's nations.

This advice was given by
two U.S. authorities in a pa-
per prepared for a recent
United Nations scientific
conference in Geneva. The
authors were the late Dr.
Harry Wexler, director of
meteorological research of
the weather bureau, and Dr.
Thomas K. Sherwood of the
Massachusetts Institute of
Technology.

Progress Made
They said "notable progress"
has been made in the
past five years in develop-
ing mathematical models of
large-scale atmospheric con-
ditions which "bear amaz-
ing similarities to the real
atmosphere."

With the use of computers
it has been possible to vary

components of the mathe-
matical model and observe
what the effect would be on
atmospheric circulation.

For example, the ma-
chines reported that a cer-
tain change in the pattern
of solar radiation falling on
the northern hemisphere
would wipe out a whole
family of storms covering
10 million square miles of
the earth's surface.

Altering the Season

Feeding a hypothetical
radiation change into com-
puters is easy. But making
the same change in the real
world would amount to al-
tering the season, and "no
one has suggested practical
means" of doing that, the
authors said.

It takes a colossal amount
of energy to manufacture
weather. It has been esti-
mated that the energy in the
winds of the entire world
at any one instant is equal
to about seven million
atomic bombs of the kind
used in World War II.

The energy of the winds
streaming across the middle
latitudes of the United
States during one year is
equivalent to 40 million H-
bombs, or to all the power
America's electrical plants
could turn out in 3,000
years.

So man is not yet ready

to change his weather by
brute force; his energy re-
sources are far too puny.
Will he ever find a means
of triggering vast changes
with the expenditure of re-
latively little energy? After
all, it takes only the gentle
pressure of a foot to send
a 200-horsepower automo-
bile hurtling down a high-
way.

It is tempting at least to
search for a trigger method
of dealing with the weather
and with its more stupen-
dous manifestations, such
as hurricanes.

Hurricanes are "prodigious
producers of fresh water."
Wexler and Sherwood
noted. It has been esti-
mated that Hurricane Carla in
1961 caused more than 40
billion tons of rain to fall
on the Mississippi valley in
a single day.

Supplies Fresh Water

This was enough to have
supplied the fresh water
needs of the United States
for more than two months.
If hurricanes could be steer-
ed, and forced to dump
their water into reservoirs,
the nation's growing thirst
could be more than satis-
fied.

But hurricane seeding ex-
periments have produced no
evidence that this is feasible.
An alternative to trig-
gering techniques, in the at-
tempt to modify the weather,
might be vast engineer-
ing works.

Many have been suggest-
ed—warming the arctic with
infusions of Pacific ocean
water, changing the flow of
the warm Gulf stream, crea-
tion of an immense artificial
cloud cover with clean
H-bomb explosions to pre-
vent loss of heat in cold re-
gions.

Could Be Desert

But scientists have repeat-
edly pointed out that for all
anybody knows a climate
change that made arctic
lands green might well turn
Mediterranean Europe or
southern United States into
a lifeless desert.

Even if such grandiose
engineering schemes could
be carried out — they would
cost many billions of dollars
— "The end results," Wexler
and Sherwood said, "would
be unpredictable in detail
at this time."

They will not be predic-
table, the authors said, un-
til "major advances in the
atmospheric sciences" have
been made.

"Progress in this field,"
they said, "will require a
high degree of international
collaboration."

County Residents Carry \$8,760 Worth Of Life Insurance

As of 1962, Jackson county
residents were found to be
carrying more life insurance
than they ever did.

According to the latest fig-
ures, the average amount of
coverage, per local family,
was \$8,760.

The new high is the result
of a steady build-up in recent
years in this form of protec-
tion. Such a development has
been noted in the areas of
the country where incomes
have been on the rise.

Increasing Protection

Increasing their life insur-
ance protection is one of sev-
eral steps that people have
been taking to add to their
financial security. Another
has been to put money aside
into savings.

The trend has been in these
directions, despite the fact
that most people are covered
by Social Security, with its
provisions for old-age pen-
sions and disability insurance.
Figures on the subject are
reported on a national and
state basis in the current Life
Insurance Fact Book.

It shows the American peo-
ple to be insured to the tune
of \$685 billion, of which \$5,
390,000,000 represents cover-
age in the state of Oregon.

In terms of the average
family, what does this amount
to? Related to income levels
throughout the state, as de-
tailed in the latest Sales Man-
agement report, it is equiv-
alent to 18.4 months' net earn-
ings, after taxes, per house-
hold.

Applying this yardstick to
Jackson county, where net in-
come per household averages

\$481 per month, the amount
of life insurance owned per
local family is approximately
\$8,760.

The grand total, for the en-
tire community, comes to
\$213,836,000.

Attributed to Market

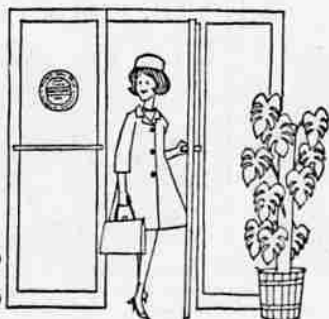
The sharp rise in the past
year has been attributed in
part, to the setback that oc-
curred in the stock market.
Many investors, who had been
building up funds there for
particular purposes, such as
a child's college education,
were made more aware of the
hazards that were involved.
They began putting more
money into insurance and into
savings accounts.

Another part of the in-
crease, it is noted, was due
to the rapid growth of group
life insurance, which is usual-
ly job-connected insurance.
More than two out of three
non-farm workers are now so
covered.



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Two Patients Are Flown to Hospitals

Two patients were flown to
hospitals for treatment by
Mercy Flights Inc., Friday.

Lt. Col. Ellsworth, J. Winner
was flown to Travis Air Force
base, Calif., from Grants Pass
where he has been a patient
at Josephine General hospi-
tal since suffering a heart at-
tack 10 days ago.

Flown from Lakeview to
Portland for possible surgery
at Providence hospital, was
Mrs. Gloria Kness, Bly, who
suffered bullet wounds of the
leg and shoulder in a family
argument Tuesday.

This brings to 1,529 the
number of patients that have
been flown by the non-profit
air ambulance service since
it was started.

Juveniles Being Held for Burglaries

Two juveniles, 12 and 13
years of age, were lodged in
Jackson county juvenile de-
tention home Friday night on
charges of burglary.

The boys, brought in by a
Jackson county deputy sher-
iff, were charged with bur-
glarizing cabins in the Pros-
pect area.

Several calls were received
by the sheriff's department
reporting entries of cabins in
the Prospect region before
the boys were brought in, the
sheriff's office said Saturday.
One call was received at 11:07
a.m., the second at 1:25 p.m.,
and the third at 2:30 p.m. The
boys were brought to Med-
ford about 4:50 p.m.

NO MONEY DOWN ON CREDIT AT WARDS—JUST SAY "CHARGE IT!"



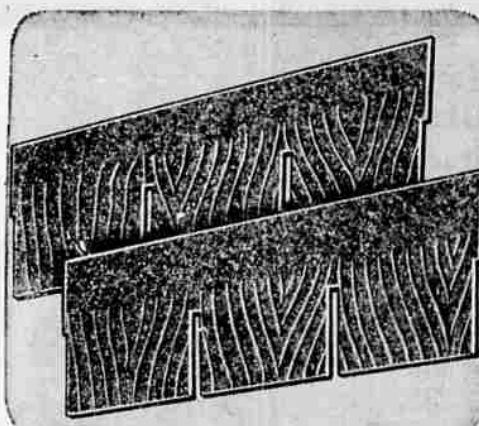
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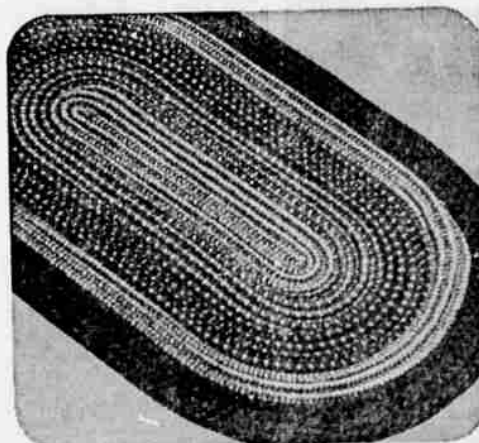
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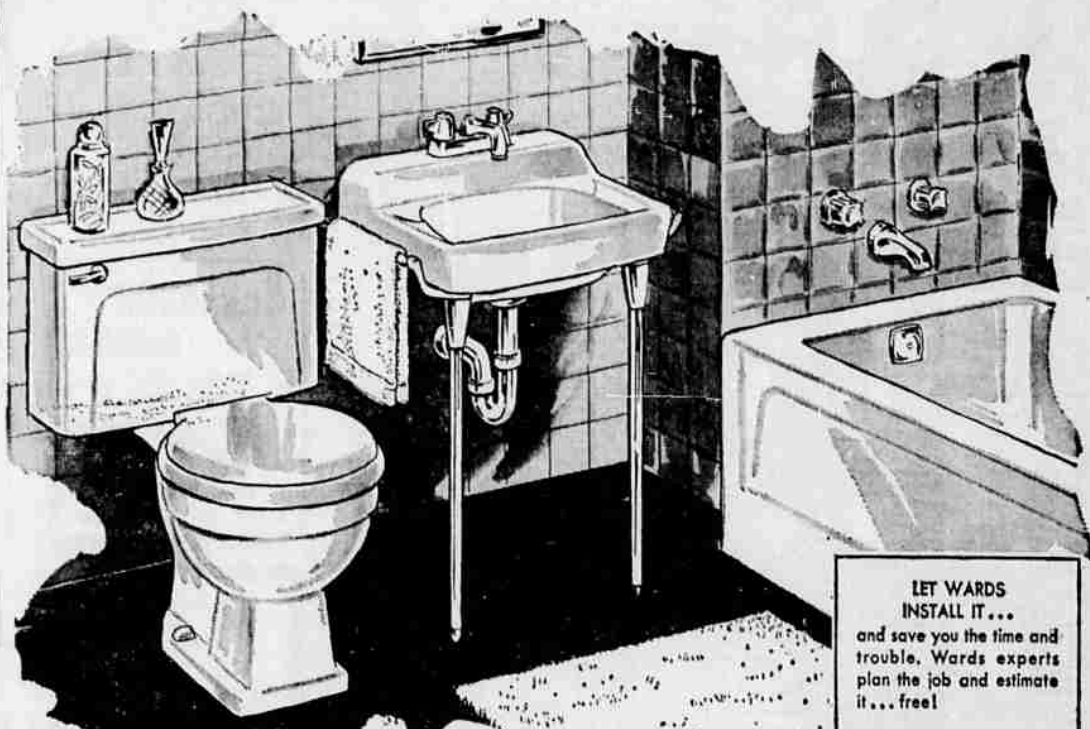
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NO MONEY DOWN



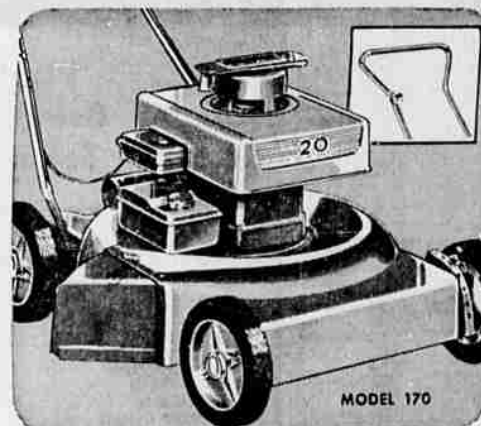
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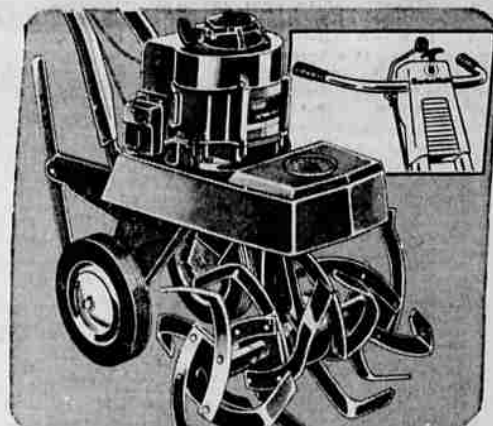
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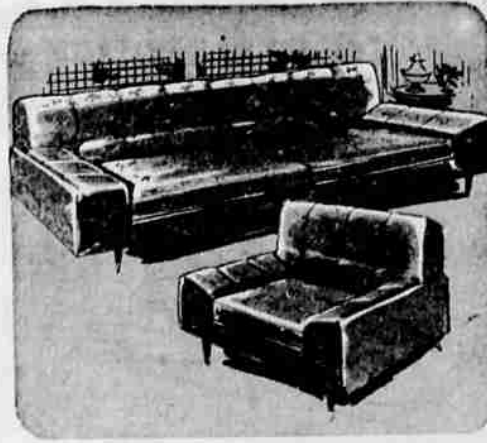
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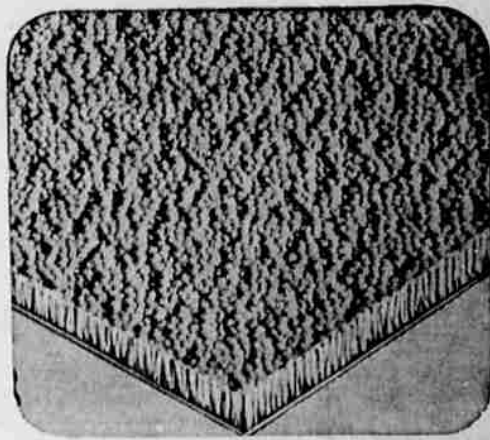
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