## Gibberish Means 'Thunderstorms

 With Moderate to Strong Winds'AREA WDLY SCTD MDT TO STG 20 WIDE 60 NW
GRI 60 SSE LINK. Gibberish? To the ordinary Lincolnite, yes. But to the trained eyes of the meteorologist it reads:
idely scattered thunderstorms with moderate to strons winds are possible in an area 20 miles on either side of a
line from 60 miles northwest of Grand Island to 60 miles ine from 60 miles
southeast of Lincoln
Mr. Lincolnite can hear the translations of the weather forecast for the area any time they may occur on the radio or TV and he can read about them in his newspapers.
It is his protection against a rained out pienic ... or a Ireaded tornado.
March through September are the months for severe
eather but June is the time for sudden thundershowers, weather but June is the time or seau. During this time an according te" is kept on the constantly changing weather by an elaborate warning system.
The first indications of possible tornado weather are
ound by meteorologists plotting the warm and cold air masses as they move through Nebraska, said Richard E. Myers, head meteorologist at the Lincoln Weather Bureau wind in the air masses, he said. They watch for the special "breeding conditions" for severe weather and tornados. A mass of tight, warm, moist air is blown underneath
mass of cold, dry air. The light air tries to rise. Turbu ance begins. Storm clouds form.
Miles away, in Omaha and Kansas City, radar notes he formation of the storm. The weather charts are con-
sutted, and the danger area is determined by the size of the air masses.
We pick out as small an area as we can. Myers said.
usually averages a couple of hundred miles long and It usually averages a couple of hundred miles long and
about 120 miles wide. We usually determine it "from point to point," he added.
"Severe" Forecast
The "severe weather forecast" is given to newspapers,
adio and TV. The Bureau then notifies rural observers police and state patrol in the danger area to watch for
and report fumnels or dangerous looking clouds. and report funnels or dangerous looking clouds.
The Lincoln a area is well organized, said Myers. The Weather Bureau can also keep tabs on possible tornados
by radar at the Lincoln Air Force Base, he said. If a tornado is located in the area, the Bureau notifies the communications media for public warnings and con-
tacts local civil defense. If the funnel is approaching Lin-
coln, the fire siren will sound to warn local residents. coln, the fire siren will sound to warn local residents.
The chance of being hit by a tornado is very small the The chance of being hit by a tornado is very small the
head meteorologist commented. But the destructiveness of head meteoroologis commented. But the destructiveness of
the storms led the Weather Bureau to establish the fore-
casting and warning systems about five years ago casting and warning systems about five years ago. The tornado is a "freak" of violent weather, very local-
zed but destructive, Myers stated. Tornado weather is usuized but destructive, Myers scatod. Tornado weather is usu
ally hot and sticky with southernly winds and ominous sky, Between 3 and 7 p.m. is the most common breeding tim
for tornados, but they can occur anytime, he said. for tornados, but they can occur anyt
Thunderstorm
The bigger, less destructive brother of the tornado is
the thunderstorm. The beauty of the towering thunderhead conceals internal violence including heavy downpours, haii, lightning and thunder. They are common during the sum
mer months throughout the mid west, Myers said.
There are actually two types of thunderstorms, he said The first is called the "air mass." It is a singele storm
caused by superheated air near the earth rising into the cooler upper regions.
The second is a series of rainstorms in a "squall line." This kind is the most dangerous, as it is "self generating
added Meyers. The line may travel as fast as 60 miles per hour by creating new storms ahead of it.
This spring and early summer have been and cool than usual for Nebraska, however, the meteorolo gist pointed out. The reasons lie, partly in the great hands
of winds that flow over the United States. While the is constantly changing, sometimes these winds wiil follow a favorite path for weeks on end, he said. Mese winds
create ""inghs" and "lows
This spring a ridge of higens of dififerent ait pressure air formed just o the west of Nebraska and a low, to the southeast, accord-
ing to Myers. Thus the ing to Myers. Thus the prevaling winds sweep cool cana-
dian air over the state. The warm air from the Gulf of
Mexico which usually accounts for the higher tempera. is bent east and little has reached the area.


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The collision of the air masses, causing severe weather,
is occurring over the east coast this year, said Myers. This
accounts for the heavy winter snow, and the spring flood. ccounts for the heavy winter snow, and the spring flood, "Last year ot the snow and low was over us" he added, "and we Unfortunately, we don't know why the winds follow the patterns they do-or when they are going to change, Myers aid. A complete shift can come in a matter of two or Tree days.
The forecast for Nebraska, as far as we can tell now is for a cool summer with more moisture than usual, he
tated. But this doesn $n$ men severe weather, he explained. It only means that the chance is less, he said.
Finally it it always wise to re
ules. the head meteorologist stated
When a tornado is apprestin
When a tornado is approaching:
Go to a tornado celler, cave or underground excavation if you have one.
Move at right
Move at right angles to the storm's path if you are in
open country. (Tornadoes usuaily come from the southpent country. (Torradoes usually come
vest. at 25 to 40 miles per hour.) In town, seek shelter inside a strong well built strueIn homes, go to the south-west corner in the basement. If you don't have one , take shelter under heavy furniture against the inside walls of the house. Open doors and win-
dows on the sides of your home away from the tornado to reduce damage.
In schools, stay inside if the building is of strongl ms with large, poorly supported roots.
Stay calm, your chance of the tornado striking your Finally, keep tune
Fin tally, keep tuned to a local radio or television sta-
weather reive the latest information. Do not call the
Seventh Grade Math
Probability Replaces Apples, Pears

The old sto ory problems in seeing the pattern in math-
bout buying apples or pears ematics which lead to or peaches at the grocery breakable rules. Dr. Beck-
tore have disappeared from mann calls it a "discovery eventh grade math at Uni- method."
versity High school seventh graders math is fase. Students look at parallelo-
sring, probability, divisibility
grams, squares and rhomoring, probability, divisibility buses to see the differences
patterns and number bases.
in length of sides and width They learned algebra and of angles. Instead of memorizgeometry as well as seeing ing rules, they "discover" the
for themselves what reason- rules.

in mathematicians used in | $\begin{array}{l}\text { ing mathematicians used in } \\ \text { setting up rules for division } \\ \text { or multiplication. }\end{array}$ |
| :--- |
| $\begin{array}{c}\text { Four Over Zero } \\ \text { Four over zero is an im- }\end{array}$ | or multiplication.

This past school year was $\begin{aligned} & \text { possible fraction, according to } \\ & \text { mathematical rules, } \\ & \text { but at }\end{aligned}$ at al math class has been taught $\begin{aligned} & \text { University } \text { High the sers find out why. }\end{aligned}$ in Nebraska.
The new method, taught by The fraction $15-5$ can be
Thecked by reducing it to the help of a graduate stu-
dent from the University, was the bottom numplitiper three dent from the University, was
developed by the School Math-- fraction, five. . .f the two two
ematice
ematics Study Group (SMSG) eveloped by the School Math-) bers whe multiplied together
ematics Study Group (SMSG) equal the top number of the at Yale University and used equal ene iop the fraction is
for the first time two years
foction. 15 , the ago in 12 teaching centers The students $\operatorname{tried}$ this
throughout the United States.
The SMSG plan is being
check on ot ther fractions,
along with the fraction $4-0$
 an experi
summer.
Exper Experimental Project
It is only one of several ex. $\begin{aligned} & \text { or four times zero would equal } \\ & \text { perimental mathematics proj. }\end{aligned}$ perimental mathematics proj- often the students actually ects being tried in junior and saw more than Dr. Beck-
senior hig h schools in the mann himself expected, he
United States. Grand Island safd. One day he listed the High School is trying a plan aumbers 2, 4, $6,8,11,1$ 1, 1, 14,
developed by the University
atking the students "What do
of lilinois. you see?
of lilinois.
The University of Maryland also experimenting with $\begin{aligned} & \text { They saw that all were } \\ & \text { is nubers, all were divisi- }\end{aligned}$ is also experimenting with even numbers, all were divisi-
different methods of teaching
math by two and each number of a four million- had an interval of two be. math as part of a four million. had an interval of two be.
dollar teaching improvement tween it and the following program for mathematics. number, which is what he
Another s700,000 has been ad. wanted them to see.. But they
vanced for improvement in also saw the recurring pat-
 The students in Dr. Beck- tern among numbers divisible

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 MODEL LAUNORY ANO CLEANERS Pix. Number Bases Part of their study wasentered around $\mathrm{n} u \mathrm{~m}$ ber
bases, learning how our num.
ner bases, learning how our num--
ber system is built on the decmal or base ten system. This
means that a number such as means that a n number such as
125 is buitit by adding five, two
times ten, or twenty and one times ten, or 1wo.
The students learned that
the decimal number base is

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RUN FOR COVER-Dark thunderclouds,
typical of those seen during the summer $\begin{aligned} & \text { cover the countryside with a sudden down- } \\ & \text { pour and then move on as quickly as they }\end{aligned}$ lypical of those seen during the summer
months, come rolling in unexpectedly to $\begin{aligned} & \text { pour and } \\ & \text { appeared. }\end{aligned}$

Experimental Course seventh graders, and maybe high schools, are conducting
even younger students, will be an enrichment class for stueven't seem to recur in
15, and 18. to thoughtful boy students, will be an enrichment class for stu-
Finally, one
raised his hand and said in his raised his hand and said in his
slow drawl, "Well, Mr. Beck- Beckmann, who says that the by the discovery method. Dr. ann, I don't know how reli- new method of ceaching mata
bloe this is, but if you add is here to stay.
ne and to 9 a.m. each ne and two, you get three. "Pm completely sold on it." weekday morning and anyone
one and five make six and he said. "I have taught for 25 wishing to see the class sin ac
one and eight are nine."
years in high school and col. tion is welcome to observe it
 as 276, the students applied anything so thrilling in my mental math for the $1961-1962$
their system, adding the three life."
numbers to get 15 and then
net Plans numbers to get 15 and then This summer Dr. Beckmann to extend the experimental
reeadding one and five to get and Dr. Monte Norton, co. procedures and content to
eighth grade math, along with

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