## 100 million volts are frightful

By DIETER KRIEG

EDITOR'S NOTE: This is the seventh article in a contiming series of stories on the weather -- one of the most awreeme and vital forces on Earth.

Ever since man first looked into the sky and saw a lightning bolt crash through the forest, he has been awed by its power and ability to destroy

Today we look at lightning and thunder through acientific eyes, but generations before us associated the rumble and flash of fire with "the gods" In either case, lightning has always been something which we respect and for good

It is estimated that lightning kills about 150 persons per year, injures an additional 250, and causes property losses in excess of \$100 million. Few farmers have not felt the destruction that lightning can produce in just a flash Barns have been ignited, cattle have been killed, and majestic trees have been left acattered across pretty landscaped lawns

Destructive and frightening as lightning is, there is an expression some people use which would dare "the gods" to strike them with that tongue of fire "May lightning strike me " they say, fully realizing that the chances of it happening are pretty slim. And that they are

But the National Oceanic and Atmospheric Administration, (NOAA), has calculated that some 1800 thunderstorms are in progress over the Earth's surface at any given moment, and that lightning strikes the Earth 100 times each second. Thus, lightning has become the killer and destroyer of more lives and property than tornadoes and hurricanes

**NEED A FARM-**

**HUSKEE-BILT MAN!** 

Also Ask About Our . .

CONTROLLED ENVIRONMENT BUILDING

A Thrive Center controlled environment building means heavier healthier animals, reduced labor and feed costs and almost no

manure handling or odor. They pay for themselves in no time!

Call Your

**Huskee Gives You More!** 

• Factory Assembled Trusses .

• Top grade lumber throughout

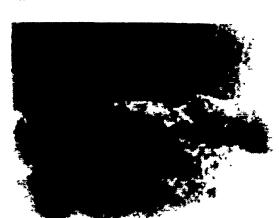
American made steel or aluminum

• Full 6 x 6" Poles

Spacious Doors

• Eave heights to 19'

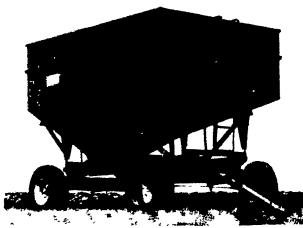
NOAA, a branch of the U.S. Commerce Department, is might be done to lessen their killer attitudes





#### McCURDY GRAVITY BINS

In Stock — Ready for Delivery



76-Model Bin, Coated with Special Paint for Longer Wear

Auger Attachment in Stock Ideal for Fertilizer

### SPECIAL SALE PRICES



133 Rothsville Station Road Lititz, PA. Phone 717-626-4705

studying lightning intensively. By using sophisticated lightning has been forwarded A brochure on the subject, equipment on land and sea, and in the air, accentists are attempting to learn what causes thunderstorms and what

So far no completely acceptable theory on the cause of published by the Department of Commerce says

Lightning is a secondary effect of electrification within a thunderstorm cloud system. Updrafts of warm, moist air rising into cold air can cause small cumulus clouds to grow into the large cumulonimbus cloud systems we associate with thunderstorms. These turbulent cloud systems tower above their companions, and dominate the atmospheric circulation and electrical field over a wide area. The transition from a small cloud to a turbulent, electrified giant can occur in as little as 30 minutes.

As a thunderstorm cumulonimbus develops, interactions of charged particles, external and internal electrical fields, and complex energy exchanges produce a large electrical field within the cloud. It is believed that electrical charge is important to formation of raindrops and ice crystals, and that thunderstorm electrification closely follows precipitation

The distribution of electricity in a thunderstorm cloud is usually a concentration of positive charge in the frozen upper layers, and a large negative charge around a positive area in the lower portions of the cloud

The earth is normally negatively charged with respect to the atmosphere. As the thunderstorm passes over the ground, the negative charge in the base of the cloud induces a positive charge on the ground below and several miles around the storm. The ground charge follows the storm like an electrical shadow, growing stronger as the negative cloud charge increases. The attraction between positive and negative charges makes the positive ground current flow up buildings, trees, and other elevated objects in an effort to establish a flow of current. But air, which is a poor conductor of electricity, insulates the cloud and ground charges, preventing a flow of current until large electrical charges are

A point is eventually reached when the electrical charges can no longer be contained. Then lightning strikes with electrical power which can be as high as 100 million volts. Just how that happens, and why we hear thunder will be the subject of next week's "Weather Report."

#### Cattle increased

cent from last year's record low number for Sept. 1 but still six per cent less than the same date in 1974, according to the Crop Reporting Board. The number on feed Sept. 1 was above last year in five of the seven states.

August placements of cattle and calves on feed in the seven states totaled 1,404,000, 10 per cent more above the same month in 1974. Placements were above last year in six of the seven states.

cattle marketed Fed during August totaled

WASHINGTON, D.C. - 1,586,000, 31 per cent more Cattle and calves on feed than 1975 and 22 per cent Sept. 1 for slaughter market more than two years ago. in the seven states preparing Marketings were above monthly estimates totaled August 1975 in all States 6,432,000 head, up eight per except Arizona which was unchanged.

Other disappearance during August totaled 52,000, compared with 43,000 in the same month a year ago.

# **TRY A**

#### than last year and 16 per cent CLASSIFIED AD!

#### Lititz, PA Phone (717) 626-5204

YOUR

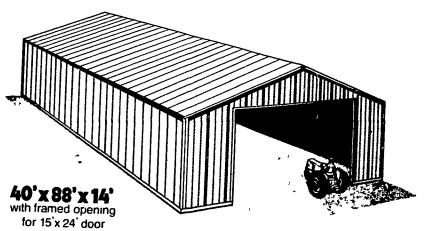
**HUSKEE-BILT MAN** 

MERVIN MILLER

### QUONSET®

THANE CENTERS

## POL-BAR



S.

All new STEEL "pole barn" economical, strong, versatile, attractive.

#### VERNON E. MYER

Steel Buildings And Grain Storage R.D. 4, Lebanon, PA 17042

Phone: (717) 867-4139



- Made of 14 Gauge Steel
- Longer Taper for Easier Flow
- All welded seams which make it water proof and rodent proof
- Can be installed inside or outside building Most installations can be made without auger.

WILL DELIVER AND INSTALL ANYWHERE

FOR FREE ESTIMATE CALL STOLTZFUS WELDING

717-345-4854 Also see us for all your grain handling nee 👵