Cold Spots in Sky Can Be Used For More Efficient Cattle Shade

The possibility that "cold spots" in the sky can help livestock during the hot summer months is being investigated by scientists of the U.S. Department of Agriculture and the University of California's Imperial Valley Field Station at El Centro, Calif

Using instruments that measure sky temperature and radiation as well as air and soil temperature, these researchers have found that a point in the north sky-at El Centro it is located about 60 degrees above the horizon-is often cooler than other parts of the sky These northsky temperatures may also average 20 to 30 degrees below air temperatures at ground level Thus the sky can serve as a "cooling sink" for heat radiated from points on the ground.

Research has already shown that sheds and corrals used to shield livestock from the sun's radiant heat contribute to sub stantial increases in daily weight gains Now it may be possible to design shelters in such a way that the roofs and walls will "serve also to transfer heat from the ground to the cold spots in the sky Ideally, such shelters would expose the animals to a large expanse of cool sky and at

direct rays of the sun.

In experiments with a high vertical shade running east and west and with the north side made of a reflective material, such as aluminum the researchers found that the average reflection of the north sky against the wall was some 45 degrees cooler than that of the south sky, which averages about 120 degrees F. This explains why live service in Polk and Durnett and constructed nearly 100,000 tock often prefer to stand in the shade of high-walled buildingsparticularly metal buildings—in preference to conventional shades A disadvantige of this type of vertical shelter is that it provides only a small amount of ground shadow, compared to flat shades.

The scientists believe, however, that the principle of using a reflecting surface oriented to the north sky should be considered in the design of livestock shades They also point out that cloud cover cuts down on the amount of heat that can be radiated from earth to sky But in California's Imperial Valley, and in some other parts of the country the large number of cloudless days in the hot part of the year, from June through September, makes the north sky a fairly reliable "sink" for radiated heat

REA Reports 1,000 Loans Made For Better Rural Phone Service

The Rural Electrification Ad-| counties in Wisconsin. ministration has made it 1,000th loan to improve and extend tel- loans for rural telephone facilephone service in rural areas, ities to \$382 million. These loans the U.S. Department of Agri- will enable 540 independent telculture announced today.

ephone Company, of Grantsburg, ern dial service for more than Wis., received the 1,000th loan 840,000 farm families and other in the eighth year of REA's rur-subscribers in small towns and al telephone program. It was in rural areas. As of April 1, 295 the amount of \$492,000 and will of the borrowers had placed in last year and 9.5 two years ago. be used to provide modern dial'service 1,130 new dial exchanges

This brings the total of REA ephone companies and coopera-The Farmers Independent Tel- tive associations to provide mod-

Slightly Smaller Meat Supply **Should Help in Overall Consumption**

ers plentiful supplies at attract- | year, he said ive prices, a meat industry expert indicated today.

of 1956. He addressed the 34th Live Stock and Meat Board.

far this year has been about 4 be a little below last year.

CHICAGO - A slightly small- per cent below the like period er meat production this year of 1956 A decline of 9 per cent in pork output will chiefly acthan last still will give consum- count for the lower total for the

Price-wise, Hardenbergh confinued, most livestock farmers Wesley Hardenbergh, presid- are benefitting from present marent of the American Meat Insti- kets. In the week ending June tute, added that, although reduc- 8, steers sold from 9 to 14 per ed in volume, the nation's meat cent higher, cows about 19 per week a year earlier. Only spring annual meeting of the National lambs are lower in price. Märketings of sheep and lambs for He said production of meat so the rest of 1957 are expected to

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Fárm Workday · · · · · · Little Shorter

The June 10 Farm Labor report of the Crop Reporting Board shows that the length of the farm workday is continuing to decline.

During the week of May 19-25, tarm operators reported that they were averaging 10.7 hours a day compared with 10.9 hours in 1956 and 112 hours a day in 1955. Hired farm hands, during the late June survey week, are ro ported to have averaged 92 hours a day compared with 9.3 hours

miles of telephone line.

The Grantsburg company plans to convert its system to dial op. eration and add facilities to serve 245 farm families now without telephones. It now provides magneto and common battery service) for 752 subscribers over 260 miles of line and switching serve ice for 104 other families in the

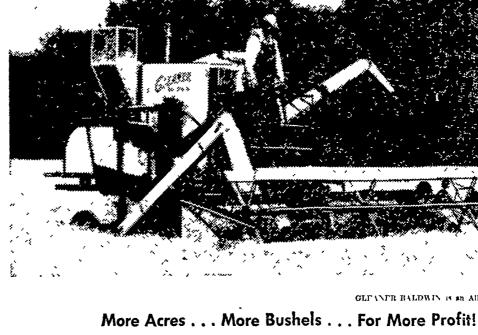
New facilities to serve the expanded system will include 65 miles of line and dial central offices at Falun and Trade Lake. The Grantsburg exchange building will be remodeled to serve output is likely to be-second cent higher, and hogs around 15 as headquarters for the system) only to the recond production per cent higher than the same and ot provide space for installation of dial facilities. Of the existing line, 37 miles will be retained in place, 168 miles will be rebuilt and the remainder re



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