



'ROUND AND 'ROUND WE GO—Even though Jack Norris is a field representative of the Humane Society, this steer distracts his motives in St. Louis, Mo. Norris chases the runaway steer around a pillar in an apartment parking garage. The animal had gotten away from a packing company. Its spirited escape try ended in a trip to the slaughterhouse.

## Most DEWline Workers Come Back

CAMBRIDGE BAY, Northwest Territory (UPI) — One DEWline worker spent all his spare time during a 10-month stint at a remote Distant Early Warning base studying a small roulette wheel in search of a sure-fire way to beat the game.

Convinced he'd found the answer, he went down to Reno, Nevada, and lost all his money at the roulette table.

Six other DEWline workers took a year's stake, traveled to Acapulco, Mexico, rented a luxurious hacienda complete with swimming

Average salary of full-time professors in the United States is \$8,875 a year.

pool and lived like millionaires for two weeks before returning North.

Two others spent a year studying navigation books, bought a 40-foot, two-masted ketch when they finished their DEWline tour and are now cruising around the world.

These are a few of the things dreamed up by lonely DEWline workers on guard against a possible sneak enemy air attack over the North Pole.

But the life isn't unbearable, according to J. T. (Tim) Kelley of Fort Wayne, Indiana, superintendent of the Cambridge Bay sector of the DEWline.

Kelley, a big, husky man in his 40s, said 73 per cent of the DEWline workers sign up for a second

12-month tour and 13 per cent come back for a third time.

Kelley said most of the men are married and saving up for a home or a business, or are young fellows who want to put themselves through college.

Money—and the opportunity to save it—is the main lure of the DEWline.

The men work a 54-hour week, receive a 25 per cent isolation bonus and average \$300 a month. After nine months they are flown to an outside point—such as Edmonton, Alberta—where they are given a two-week holiday with pay.

This is what Kelley calls the "de-bushing" process when the "boomers"—like the man who blew all his money at the roulette table—are reacquainted with society.

The Federal Electric Corporation of Paramus, New Jersey, does all it can to keep its 1,500 employees who man the DEWline happy. This includes the best of food and recreation facilities and a magazine about DEWline activities which is sent to all workers and their families on the outside.

## Doctor Wins Long Shot

SPRINGFIELD, Mass. (UPI)—Dr. William N. Pannbaker, 96, of Baltimore, Md., has won a 20,000-to-1 bet with vital statistics.

The Massachusetts Mutual Life Insurance Co., said that Pannbaker has received the proceeds from a \$2,000 life insurance policy he purchased in 1929.

Company officials said the doctor, who was 37 when he bought the policy, had less than one chance in 20,000 of reaching the age 95.

### THE COVER

Herald and News Photographer Don Kettler got this typical fall shot of a late afternoon sun glinting through a heavy stand of cattails in a swamp along the Upper Lake. With the mild weather the cattails are holding on well and are still available for camera fans as a subject.

## Astronomer Makes Charts For Satellite Tracking

By RICHARD M. HARNETT  
SAN CARLOS, Calif. (UPI)—A small scientific publishing firm here has come out with a "complete home tracking station" for \$1.50 with which the man-in-the-street can calculate the orbits of earth satellites.

The home tracker was developed by W. O. Holmes, an inventor, writer and astronomer, who was perched in his private observatory in the ghost town of Dayton, Nevada, when the Russians launched Sputnik 1 in October, 1957. Celestial navigation was his specialty and he immediately went to work tracking the Soviet satellite and later, others launched from both sides of the Iron Curtain.

Holmes found that, using a few fairly simple charts, he could calculate where a satellite would be at any particular time once he knew its farthest distance from earth (apogee), its closest distance (perigee) and the time it needed to complete one orbit.

He developed these charts further and then conferred with several space scientists. Next, Research Publications, Inc., added some space art and the charts were ready for anyone interested in tracking the man-made moons.

George Bunton, manager of the Alex Morrison Planetarium in San Francisco, said it is possible to keep track of satellites by Holmes' method.

Other experts agreed, but pointed to the system's limitations. Joseph Brady, a missile expert at the University of California, said for example, it was unlikely any such tracker could take atmospheric drag into account.

Using only the home tracker and maps, a 16-year-old boy was able to predict accurately the times when Discoverer V would pass over various cities of the world.

When the Air Force launched the satellite last August 13, George Kirchner, a student at Sequoia High School in Redwood City, Cali-

fornia, wrote down the perigee, apogee and orbit time, which had been published in the newspapers.

Then he went to work with his home tracker and two hours later had drawn up a schedule of a dozen cities with the time the satellite would pass over each.

George calculated that the Discoverer would be over Hawaii, where it was to drop its space capsule, on its 17th trip around the world, between 2:30 and 2:45 p.m. Friday afternoon. The time was actually 2:42 p.m.

According to Holmes, his tracking system can be used for any satellite, with any kind of orbit. All the user needs are the basic facts of perigee, apogee and orbit time.

The tracker charts, maps and instructions are printed on a large sheet of heavy paper about two feet by four feet. Holmes doesn't claim it can beat the big computers, but he does believe his charts will do the job.

### ROCKY'S RECORD

NEW YORK (UPI)—Rocky Marciano is the only heavyweight champion and one of only four prominent fighters ever to go undefeated throughout his entire career. Rocky had a 49-0 record, including 43 knockouts.

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DALE GOOD is shown here holding a portion of a deer shoulder bone in which is embedded a razor sharp hunting arrow. Not so unusual unless you consider the facts. The deer was shot by Skip Laws of Macdoel with a hunting rifle. Being a generous soul he shared his good luck with Dale's aunt, Mrs. W. F. Good. She cooked the meat and it was only then that the embedded arrow point was found. No doubt some archer is still swearing he made a perfect shot and still lost his deer. The wound was completely healed over, according to Good, and no apparent damage was done to the animal.

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