## The Tawas Herald




## Stratosphere Flight

 rmae of more than 73,000 feet on Armistice day, was the largest free
balloon ever built. Commanded by Capt. scientific observer, and piloted by Capt.
Orvil Anderson, both of the army air
corps, the balloon soared more than
two miles farther into the upper air han the previous official altitude rec
ord (61,237 feet), made by Lieut. Com
mander T. G. W. Settle of the navy
nd Maj. Chester Fordney of the ma and
ine corps, on Norember 20, 1933. The
unofficial balloon altitude record prior
to the filight of the Explorer II was
72,200 feet, made by Russian ballon-
ists. The crew of three men was killed ists. The crew of three men was killed
when the gondola crashed on descent. If a tent were made from the bag
of the Explorer II 20,000 men could
ond find standing room beneath it, with
space to spare. It will cover about two and two-thirds acres of ground, or
two
15,845 suare feet. It has a capactly
of $8,700,000$ cubic feet of gas. This is
23 per cent larger than the capacity of the Eexplorer I, used on the 1934 Na-
tional Geographic-army air corns stra-
to record-breaker for size. football field
If fully inflated on a
the Explorer would cover more than the Explorer would of the gridiron and
the total width of
about two-thirds of its length. A build-
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\begin{aligned}
& \text { balloon } \\
& \text { sphere. }
\end{aligned}
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After the balloon became spherical
and the hellium continued to expand, here was no danger of the bag turst-
ing because the excess gas escapec through four appendires in the bot-
tom. These are tubular openings like inverted chimney,
feet in dlameter.
The gas in the balloon was con-
trolled by two valves of a type invented by Captain Sterens. Operated brakes are operated, the valves were They could be used to let gas escape from the top of the balloon when it
was desired to halt the ascent tem porarily, or to hasten the descent The gondola of the Explorer II scientific instruments is a big nine-foot but strong. Though nearly as strong a steel, the metal used in the sphere is
less than one-fourth as heavy. It the world's lightest structural meta
Even aluminum is half again as heav
$\qquad$
$\qquad$
$\qquad$
$\qquad$ nesium is obtained from deep-buried
supplies of salt water, or brine, pumped Dow Chemical company.

Two Barriers to Success and
How to Rid Ourselves of Them

## three-sixteenths of an inch to give it sufficient strength for the stratosphere

 sufficient strength for the stratospenereballoon gondola. It carried into the stratosphere on the flight a load of two
men, more than a ton of scientific apparatus and thousands of pounds or
ballast.
In In tests it withstood strains five
times as great as it was called upon
to bear'during the flight During to bear during the flight. During the
flight it was subjected not only to the
load but the strain of an air pressure load but the strain of an air pressure
inside that was far greater than that outside.
Walls of the gondola are made of Walls of the gondola are made of
rolled plates of the magnesium alloy
welded together. The hatches are castings of the same material. The entire gondola, with its metal floor, hatch
covers and a metal arm from which
some intru mela some instruments were suspended,
weighed 638 pounds.

## FINNEY OF THE FORCE By Trod oughin Sign Off



THE FEATHERHEADS


## OUR COMIC SECTION

Events in the Lives of Little Men

a mows colder as one climbs higher on
mountaln or in an alrplane, and sclsteadily Increased with altitude. But
about 37 years ago it was found that helght of seven to ten milles, and re-
mained about the same as far up as attached to small balloons.
Man Couldn't Live There.
The stratosphere always stays a
approximately the same low temperaapprox mately the same low temperasorbs is almost exactly balanced by the eat it radiates away. It is colder
winter than in' summer, but strangely enough is colder above the equator tha a man sudulegly transported to the stratosphere could no more live tha
he could in the depths of the sea. No only is there much too little oxygen
to keep him alive, but the tissues of his body would tend to expand be cause the pressure inside his bod
would be far greater than that out sealed in a gondola and supplled with artificial ar by an air-conditioning
unit, just as is the crew of a subma rine. All astronomers wish they could go At a height of 15 miles they would be
well above most of the earth's atmos phere, which acts like a swirlling fog in
front of telescopes on earth and be cause of this the view is partially the stars shine far more brilliantl than we ever see them. At. a height
of 20 miles the brighter stars probably could be seen in daylight. That is be-
cause the stratosphere sky is almost back. There are comparatively few air articles to scatter the sun's rays
that height. hence the sky does no
mpar as bilue as it does from the


Smiles息

## 

Maybe They Are
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Farmer. $\overline{\text { Turns and Twists }}$

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'em all.

## WRIGLEY'S <br> SPEARMINT <br> THE PERFECT GUM

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|  |  |  |  | Happy New Year! |
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| MOELLER BROS. |  | min |  |  |
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## BESTWISHES

 hearty cooperation which th people of Iosco County hav I wish to extend to you my sincere best wishes for the future, with the hope that the for you the best of HealR. H. McKenzie

County Clerk


ONE of the real pleasures of the Christmas Season is the opportunity it gives meto wish you an abundance of all worthwhile things in the New Year.

## Allan A. McLean

East Tawas, Mich.

## NEW YEAR'S GREETINGS

To everyone--- our friends, patrons, associates... our competitors, too, we wish a very happy and successful new year.

## Buch's Grocery Tawas City



## Good-bye . . 1935 Welcome . . 1936

The old year is gone, and with it we hope will go all the unhappiness and ill fortune that may ever befall you. Good luck to you, friends!

KEISER'S DRUG STORE

Mortgage Sale


amm
six
cost


## RING OUT

THE OLD
RING IN THE NEW!

And when the bells announce the arrival of the New Year let's say farewell to Old 1935 with its ups and downs, and to be happy and industrious in 1936 . We extend a hearty wish that happiness and success may be yours throughout the coming year.

## JAS. ROBINSON SERVICE STATION

## Tawas Breezes

## BASIL C. QUICK

 WATCH MAKER JEWELER OPTICAL REPAIRS Appointments made for eyeexaminations. examinations. Noptican post
graduate of New York Poly-
clinic Hospital.



## VOUCHER

The attached check is part payment of our appreciation for your Good-Will which has contributed so materially to our progress. Your contact with us for the past year shows on our books as follows

DEBITING YOU:

> 366 days in which to be
> happy and prosperous

CREDITING YOU:
Pleasant relationship
Friendliness and generosity
Confidence and loyalty

BALANCE:
Our appreciation and best wishes for a HAPPY NEW YEAR


Cones of Ancient Trees Discovered | Vast Forests Existed Millions |  |
| :---: | :---: |
| of Years Ago. | $\begin{array}{l}\text { that some of the lignitized driftwood } \\ \text { was formed from logs of this family. } \\ \text { Sequorm cones have, however, been } \\ \text { Sentifed from the same geological }\end{array}$ |




Socialism Versus Christianity
leonard a. barrett


## Oth 万rousehofd



Who Are You?
The Romance of
Your Name RUBY HASKINS ELLIS


Attractive and Simple Rag Rug
 simple rug to make if a square rug
desired. This rug measures 32
hes and requires atout a

## 



##  <br> $\qquad$ <br> No Need to Suffer "MorningSickness"

$$
1
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$T_{\text {stairways. The distinct types of }}^{\text {Here }}$ Thirst and custom- $-\begin{aligned} & \text { walled in on both sides, and therefor } \\ & \text { has no architectural beauty }\end{aligned}$


## "Morning sickness"-is caused by an acid condition. To avoid it, acid must be offset by alkalis - such as magnesia. Why Physicians Recommend

 Milnesia WafersAir-Conditioned Bed Is Latest

"Ho hum-I guess 65 degrees would be about right for me to do my bet
sleeping," says Sally O'Brien as she "tunes in" on one of the year's later
contribut

##  The Winind

 AMES HENNET
mvosma




Where Does the World

## Get Its Supply of Oil?

Three Nations Control Output of Industri
Lifeblood.

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## traty canazod zo

 FirestoneGUM DIPRED THRES


Tire delays were playing havoc with this man's business. Treads wore down fast - they failed to hold on slippery pavements. The situation was serious -
something had to be done to lower costs and maintain on-time deliveries.
So he changed to Firestone
Gum-Dipped Tires! And now his troubles are over! For Firestone Tires are built with patented construction features and stand up under most gruelling conditions.

The Gum-Dipped cord body prevents internal friction and heat-chief cause of premature wear and blowouts. The two extra layers of Gum-Dipped cords securely lock the massive non-skid tread and cord body together.
These patented features are used in no other tire. See your nearby Firestone Auto Supply and Service Store or Firestone Tire Dealer. Start reducing your operating costs toda

OM-TIME SCHEDULES

## FASTER, MORE

 DEPEMDABLE SERMCE OPRTRTME COSTS


