

# THE WAYNESVILLE MOUNTAINEER

NO. 23 FIRST YEAR

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# ayton Plant Built For Synthetic Rubber Work ayton Oxygen Hose Used On B-29 Raids An Abundance Of Cold Water Was Big Factor

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FIELD, O .- Partly bethe splendid production life rafts and oxygen the Dayton Rubber emusand-plane B-29 raids for the Japanese well

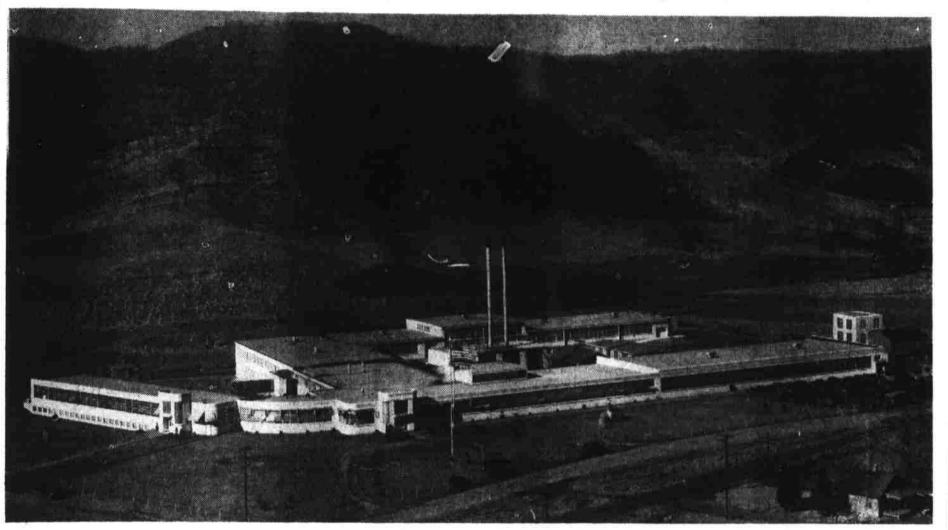
nd of the year. bing news-for Japs sed in a message to s and equipment sup-Remaduer General Orval ho, as chief of the Air Service Command's prohere, directs

29 is equipped with a oxygen equipment for of the crew because altitude which they numbers of B-29's this vital equipment avnesville

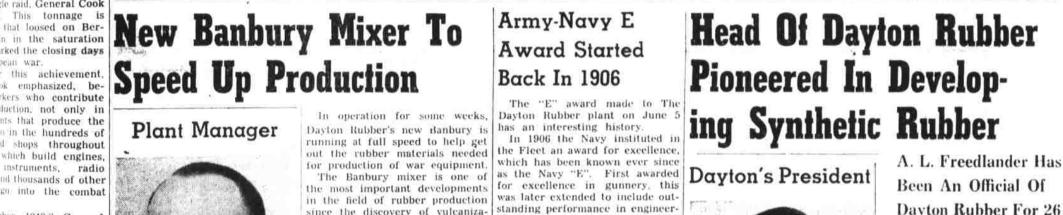
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rtort bases being Japan, the weight hat can be dropped on ds may reach 10.000 cle raid. General Cook This tonnage is that loosed on Berin the saturation rked the closing days can war this achievement.

emphasized, bekers who contribute duction, not only in is that produce the in the hundreds of id shops throughout which build engines, instruments. nd thousands of other This Is The Modern Plant Of The Dayton RubberManufacturing Company In Waynesville



This striking and recent view of the Dayton plant, was made from the reservoir hill across the highway. This is the first published picture to show the new additions to the plant and the recently completed Banbury Mill on the extreme right. The two wings on the right and to the back of the picture were finished sometime ago, and one of them houses the important oxygen hose production department.



**In Plant Coming Here** 

The establishment of the Waynesville plant of the Dayton Rubber Manufacturing Company dates back nearly six years, though actual construction did not start until 1941.

When Germany invaded Poland in 1939, the management of the company became war conscious and immediately began studies on its operation as a war plant. Realizing the importnt part synthetic rubber would probably play during a war, surveys were made to determine the location of a new modern plant especially designed for the production of synthetic rubber products.

Cool nights and the availability of cool water were two factors to be considered. Many localities were considered and early in 1940 the present site was chosen because of the high altitude and the fact that the water temperature went as low as 40 degrees, thus making the location ideal. Also, the location was in the heart of the textile industry, ideally suited for the manufacture of the company's rapidly expanding textile division.

Construction was started in 1941 and was nearly completed by Pearl Harbor. In 1942 Dayton obtained its first contracts from U.S. Army Engineers for the production of pneumatic pontons which has been continuous ever since.

In 1943 the first contract was secured on A-3 pneumatic life rafts for the U.S. Army Air Forces. To obtain the high degree of quality required, it was necessary to train over one hundred new employees, install special equipment. and even build an air-conditioned room in which the humidity could be accurately controlled. Every precaution is taken to prevent failure of performance, and research is constantly being carried on to make these rafts better.

Also in 1943 Dayton started the development and production of oxygen tubing for the U.S. Army Air Forces. Specifications were rigid, requiring a hose that could stand wide extremes in temperature and tremendous elongation or stretch. It had to function perfectly in icy-cold air 65 degrees below zero and in baking heat of 185 degrees, and at the same time be able to stretch as much as 50% of its normal length. Having had previous experience in wire inserted radiator hose, the problem was tackled with confidence. So efficient was the development that Dayton Rubber has been the largest supplier of oxygen hose to the government.

The plant was soon too small, and an addition was built to handle the required production. About six months ago, a small two-story Banbury building was added to the plant to increase its milling capacity. Headquarters of the Dayton Rubber Manufacturing Company are in Dayton, Ohio, where the company manufactures Dayton tires, tubes, tire repair materials, V-belts for industrial use, special type V-belts for railroads, fan belts for autos and trucks, printing rollers, industrial rollers and special molded rubber parts.

1943." General "aircraft plants ss than 50 B-29's. This plants at Seattle Martin at Omaha. Atlanta will combine veral times that numrate is still increas-

than 500 changes ade in B-29 produce this plane a more on of the war." ook added that peak will be reached about that 1000-plane raids iged in the far Pacific, that eventual B-29 igth will number well isand planes.

Textiles lade With

operated.

n Cots "Veteran" In The silk, rayon fight orid War. The parauniforms, the band-**Rubber** Industry plane fabrications and ther fighting equipment

Frank Rogers, factory manaeds to fight with are ger of Dayton Rubber, has an exextiles. War equip- perienced and thorough back-Dayton Rubber has ground in the engineering and prohe pontons, the life duction of rubber products. His n hose, V-belts and first job was in the process en-And these textile gineering division of a large rubwoven together with ber plant. And he has worked the textile products with rubber and its problems ever d in Dayton's textile since.

of operations.

Before coming to Waynesville he essing of textile fabwas connected with rubber comof wool, silk, rayon) panies in Akron, Ohio, and, more through sets of rollers recently, as a trouble-shooter on at progressively inplane production at Voght-Sikor-

FRANK ROGERS is plant mana-

ger of the Waynesville plant of

Dayton Rubber. He has been in

the rubber business many years.

and is experienced in all phases

Frank Rogers Is

s of speed so that as sky and Curtiss-Wright whose fightass through, they will er planes were shipped to the Maand paralleled. These rine Corps and the Navy known as spinning Infantryman in the last World coverings or cots. In War for three years gives him a out process, the fibers kindred sympathy and understandrushed so there must ing for the fighting men of this sive" to one of the war. He's the kind of factory to draw the fiber. manager who will roll up his sleev-Dayton synthetic rubes, step up to a machine and find used in textile mills a strange gasket or leaking valve. by have the necessary He plays a fair game of golf and they are substantial likes to fish. to lose their "cushion-

use they do not iners in processing re-Spice Juices how continuously the

since the discovery of vulcanization more than a hundred years ago. Its use makes possible the mass production of rubber. The name "Banbury" comes

to men of the service who receive from its inventor-F. H. Banbury, who built the first Banbury in

It was first developed to 1916. Europe placed a premium on the take dust and dirt out of the mill production of war equipment, the room and the first mixers were Navy "E" award was extended to used for the master batching of embrace those plants and organicarbon black and crude rubber. zations which showed excellence Its principle of operation is somein producing ships, weapons, and what the same as a mechanical equipment for the Navy bread mixer and its design is fair-

Then came Pearl Harbor-and ly simple. It consists of enclosed with it a demand for war producmixing chambers, double-cylindrition such as the world has never cal in form. In each of the cylinknown - an awareness that our drical sections is a hollow rotor, fighting forces and the men and roughly pear-shaped in cross secwomen of American industry are

tion and formed in an interrupted partners in the great struggle for spiral. In revolving, each rotor human freedom and on the part provides surfaces that converge of all Americans a grim and endurwith the walls of the chamber. ing resolve to work and fight to The rotors are enclosed in a bargether until victory in the struggle rel-like section whose upper part is final and complete. is lifted by an air cylinder so

From that high resolve was born that materials can be put into the he Army-Navy Production Award Banbury to synchronize with the which stands today as our fighting loading. Cycles of the rotor can forces' joint recognition of excepbe arranged for fitting various tional performance on the production front-of the determined, pre-

serving, unbeatable American spir-After a batch is given its varous cycles in the Banbury, the it which can be satisfied only by bottom portion of the barrel is achieving today what yesterday withdrawn by hydraulic cylinders seemed impossible.

and the contents are emptied into a chute which drops over the 84' mill. After milling, the rubber is

ompounds

to cool

container, insert a nail and solder slabbed off, dipped and hung up around the head.

Plug Hole

ing and communications. An honor not easily won nor lightly bestowed, it became and has remained a matter of deep pride When the rising tide of war in

> A. L. FREEDLANDER, president of The Dayton Rubber Manufacturing Company

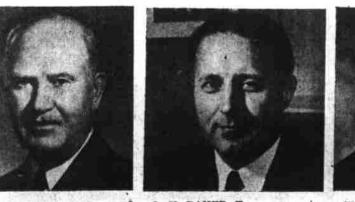
# Radiator Hose **Department** Aids In War Effort

Radiator Hose for many years has been a highly competitive ar-

facture necessitated the use of re- of synthetic rubber, having devotclaimed rubber even before our ed considerable time to its since entry into the war. Previously, the early 1920's. As early as 1926, however, ample supplies of graded a patent was obtained on a roller reclaimed materials were available with a renewable surface which for incorporation into this product | today is known as the Dayco Roll-

To mend a small hole in a metal tained, as well as the working roller on the market. qualities of the material in the

## Members of The Board of Directors of Dayton Rubber



J. A. MacMILLAN, Chairman of the Board, founded Dayton Rub- tains his headquarters in New and Secretary, has been legal ad- been with Dayton Rubber since ber in 1905 and soon thereafter York City. Not long ago he suc- visor to the company for many 1936, and was formerly associated developed the first practical airless ceeded his father who was treas- years, and was once Lieutenant with the McClaren Tire Company They were able to get water from urer for many years.

L. V. BAKER, Treasurer, main- W. G. PICKREL, Vice President Governor of Ohio. of Charlotte.

#### Dayton Rubber For 26 Years.

A. L. Freedlander, president of The Dayton Rubber Manufacturing Company, has been with the firm more than a quarter century and is an international recognized authority in the rubber industry He joined the company as factory manager in charge of research, en gineering and production.

Mr. Freedlander is a graduate of Case School of Applied Science where he received a degree in chemical engineering.

His vast knowledge and wide experience in working with rubber and synthetic rubber has made it possible for Dayton Rubber 10 pioneer many developments in rubber products. Among them were the first white sidewall tire, the first low air pressure tire, the first all-synthetic rubber passenger car tire, the first V-shaped cog belt, the first all-synthetic rubber printer's roller and others.

Mr. Freedlander has played an ticle. Because of this its manu- important role in the development and its standard could be main- er, the leading synthetic rubber

He has also played a leading (Continued on page 2, Section 2) (Continued on page 2, Section 2)

#### Life Rafts Save Dayton Fan Belts Used On All Lives Of Yanks

After 33 days in a life raft drifting over 400 miles in an open sea,

four Liberator crewmen have returned with a story of painful survival on a diet of fish and birds. While the airmen were floating on the ocean, they sighted five Japanese submarines and a number of enemy planes. During the first day they bobbed on the sea in the life preservers until a bomber spotted water rations. When salt water ruined most of the rations they P. J. MAYLE, Comptroller, has had to depend on what the sea

would give them for sustenance. The birds and fish they ate raw. a few rainstorms.

The company was founded nearly forty years ago and has since been constantly expanded until today it operates three plants. Dayton has always maintained a large research staff who, together with A. L. Freedlander, president, have pioneered many developments in the field of rubber products. Among these are the first white sidewall tire, the first cog type V-belt, the first all synthetic rubber printing roller, and others.

Through the experience gained from developing printing rollers, Dayton was able in 1938 to market an all synthetic rubber spinning cot for textile mills, which is now manufactured in the Waynesville plant. A very recent development in the local plant is a spinning cot that greatly reduces troublesome "eyebrowing" and is being widely acclaimed by textile mills. Other innovations have been developed and only await the end of the war to be put into production.

Dayton has had laboratory experience with practically every type of synthetic rubber available today and uses many of them in its present products. For many years, just prior to the war, Dayton Rubber was one of the world's largest users of synthetic rubber.

The Waynesville plant is the newest of Dayton's facilities and is exceptionally well-equipped for the production of both rubber and synthetic rubber products.

> Vital Equipment Many of the huge compressors used to bottle oxygen in cylinders used in aircraft in conjunction with Dayton Oxygen Hose, are equipped with Dayton Thorobred V-

Belts. The compressor units are mobile so that they may be moved forward to any battle-front airfield them and dropped a life raft and Over 100 V-Belts are installed on each unit and the only belt failure reported was due to mis-aligned pulleys-a common cause of failure for any type of power transmission belt.

Buy War Bonds and Stamps.

### A pleasant way to drink fruit juices in chilly weather is to have

the juices hot and spiced.

tire.