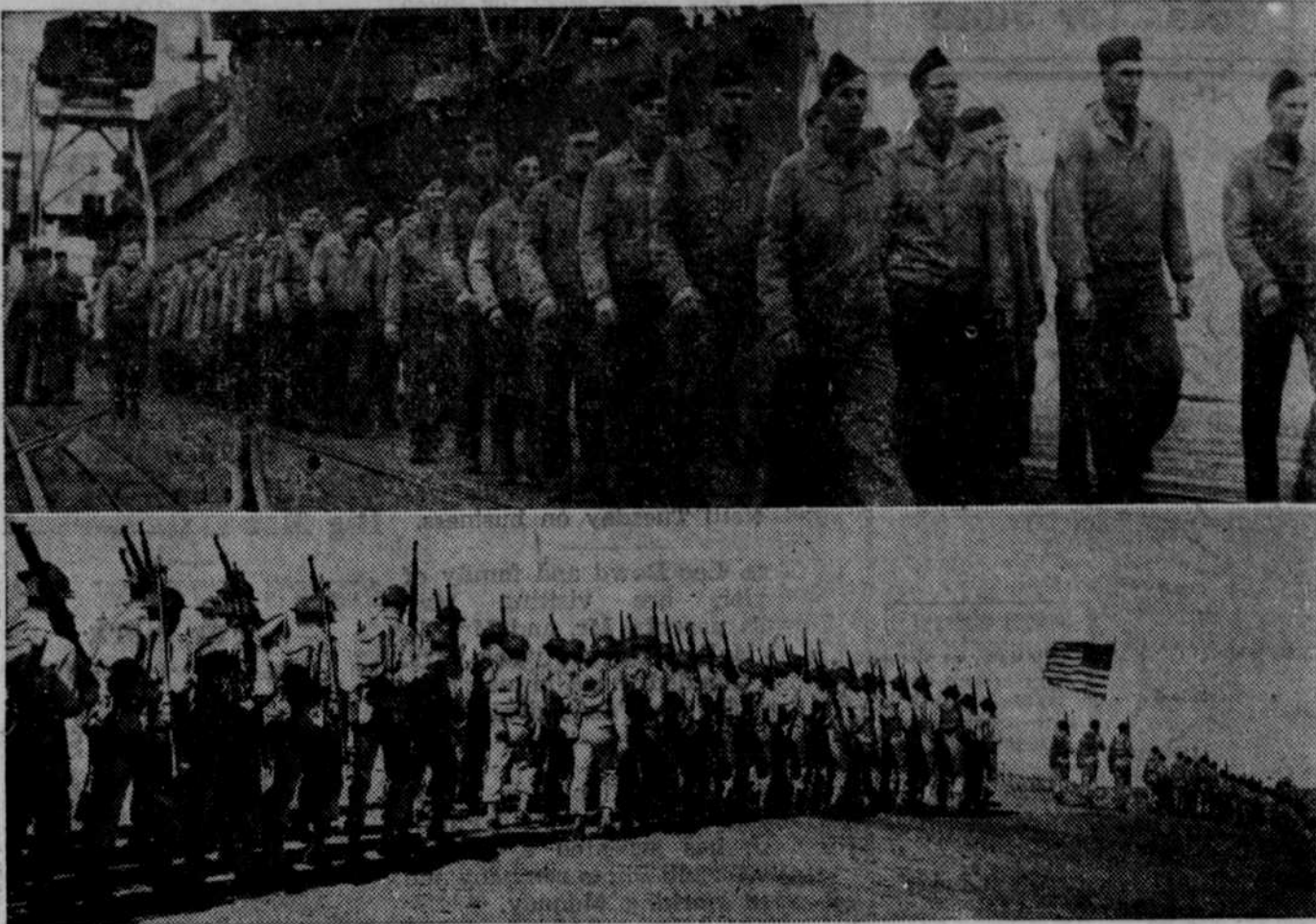


Old Glory Flies Proudly in Australia



U. S. troops are marching on the wharf (top) at an unidentified port in Australia after landing. They are part of the new contingent. Below: Over hill and dale, somewhere in Australia, Old Glory flies at the head of the U. S. troops. Cities of tents have sprung up everywhere.

ROTC Students Learn Proficiency in Arms



Nowadays at ROTC units throughout the country the accent is on guns as well as books, and college students are learning to be proficient in the use of arms. In picture at right, ROTC students are drawing rifles in the gun-room of the recently constructed drill hall built at City college, New York, by the federal government. Left: Two young army officers assigned to City college ROTC demonstrate use of bayonets.

Nazi Soldiers Surrender to Reds



This radiophoto from Moscow shows an episode in the great war on the Eastern front. A group of German soldiers are raising their hands in surrender while the bodies of regiment mates are strewn around the trench.

Cuban Review



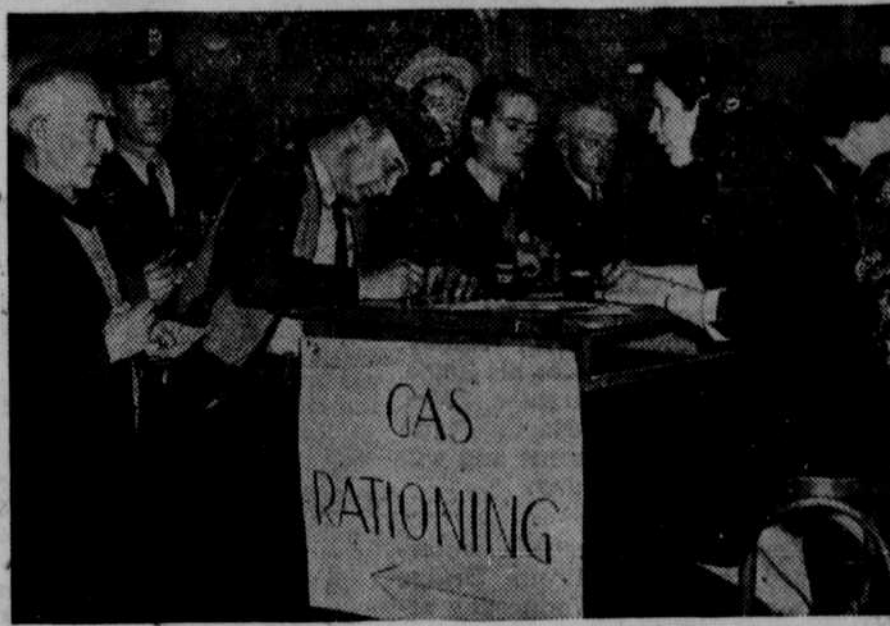
President Fulgencio Batista, sword raised, inspects his newly enlisted volunteers in the Cuban army. General Bernitez marches in front with his musket.

U. S. Sub Brings Home Golden Bacon



This photograph, released in Washington, shows the actual delivery of the treasure snatched out of Corregidor (before the arrival of the Japs) by a U. S. submarine, whose commander and crew were honored by the army. Stealing into Manila bay under Jap batteries, the sub brought in a cargo of shells and loaded up with gold, silver and securities.

New York's Gas Rationing Begins



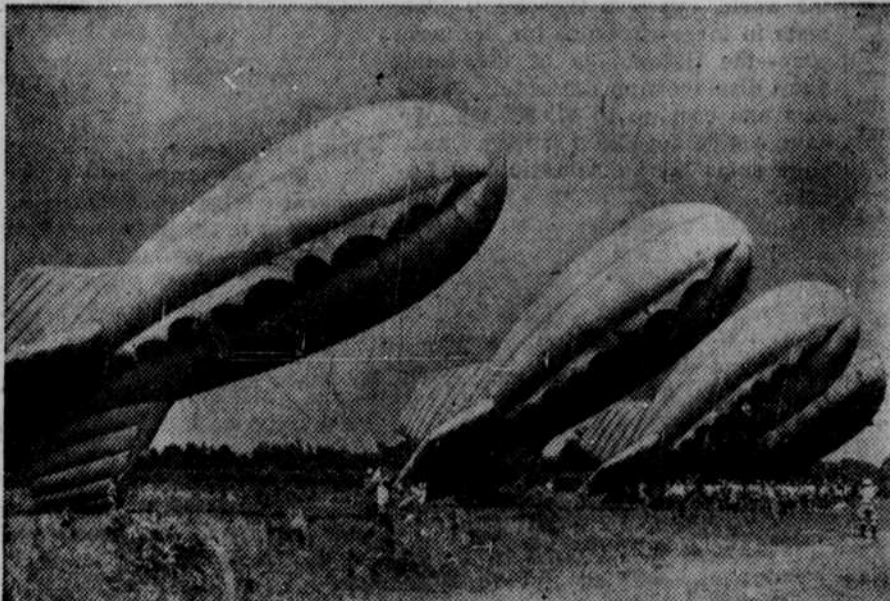
A little less than one-third of New York city's 900,000 motorists registered for gasoline rationing on the first day of the three-day registration period. Registration in the city took place in 753 public schools, and was particularly for motorists whose last names begin with A to L. Photo shows a clerk registering an applicant.

Eagle's Nest Afloat Again



The British aircraft carrier Illustrious which was damaged in a sea battle is now in service again, after having been repaired and refitted at an American shipyard. Photo at top shows the ship as she rides at anchor at a British port. Bottom photo shows crew members of the Illustrious running to their stations as an alert is sounded.

Leatherneck's Balloon Barrage



You have seen U. S. marines in many roles. Now you see how the versatile "leathernecks" handle their barrage balloons. At the marine base at Parris Island, S. C., barrage balloon base group 1 operates its stable of great gasbags. The balloons are captive, flown on steel cables. Above, a quartet of balloons is being jockeyed into position by marine ground crews.

Gains Freedom



Earl Browder, U. S. communist party leader, shorn of his mustache during his 14-month imprisonment in the federal penitentiary at Atlanta, Ga., shown in his Atlanta hotel room shortly after his release. Browder's four-year sentence was cut short by President Roosevelt "in the interest of national unity."

Chief of WAAC



Mrs. Oveta Hobby of Houston, Texas, who has been appointed director of the Women's Army Auxiliary corps by Secretary of War Stimson. She is the wife of Former Gov. William Hobby of Texas.



Farm Acreage Yield Increase Is Needed

Conservation of Soil Must Still Be Practiced

Greater emphasis on increasing yields to the acre to meet wartime production goals is urged by the wartime committee on conservation at the New York state college of agriculture.

This is recommended in place of expanding tilled land acreage "which should be the last resort," the committee said. Other recommendations include:

Any necessary expansion of acreage for clean-tilled crops should be first on land least subject to soil and water losses.

All agricultural leaders and workers should encourage and help farmers to plant all sloping land on the contour.

Greater use should be made of existing demonstration farms in connection with small community meetings and to show results of various crop practices.

Efforts should be made to have all new sloping orchards and vineyards planted on the contour.

A rough, trashy tillage type of cultivation should be encouraged in sod orchards which will be broken as a source of nitrogen.

Farmers should be encouraged to practice conservation to prevent a recurrence of the tremendous waste of soil resources that occurred in World War I.

The committee making these recommendations consists of agronomists, economists, pomologists, agricultural engineers, and soil conservationists at the college.

AGRICULTURE IN INDUSTRY

By FLORENCE C. WEED

(This is one of a series of articles showing how farm products are finding an important market in industry.)

Sugar Beets

Napoleon might be called the father of the sugar beet industry since he fostered the research by which chemists learned how to extract sugar from beets. In our western states, it is an important cash crop, valued at 63 million dollars annually.

The chief product is refined beet sugar which competes with cane sugar. This infant beet sugar industry has received some government protection through the Sugar Act of 1937 which requires that 23 per cent of our national requirement of sugar shall be the beet sugar variety.

By-products of the industry have not been widely developed. Wet beet pulp from the factories is converted into animal feed and the green beet tops are fed to livestock.

Beet molasses is not palatable as cane molasses is, so it is subjected to the "Steffen process" which recovers a great part of the sugar with the aid of finely ground lime. Molasses which has not been treated, is sold for cattle feed and for the manufacture of yeast and alcohol. Experiments are soon to be made to find ways of utilizing beet pulp as a base in fermentation industries and as a source of pectin and some other acids.

The main beet-producing states in order of their importance are Colorado, California, Nebraska, Michigan, Utah, Wyoming and Montana. Midwest states which have some beet-growing sections are Indiana, Illinois, Wisconsin, Minnesota, Iowa and North and South Dakota.

About 80 factories are being operated to produce the 1,500,000 tons of beet sugar used in this country.

Roof Laying Faults

Faults in laying metal roofs and use of improper paints to protect them after being laid will cause trouble or unnecessary expense later on farm buildings.

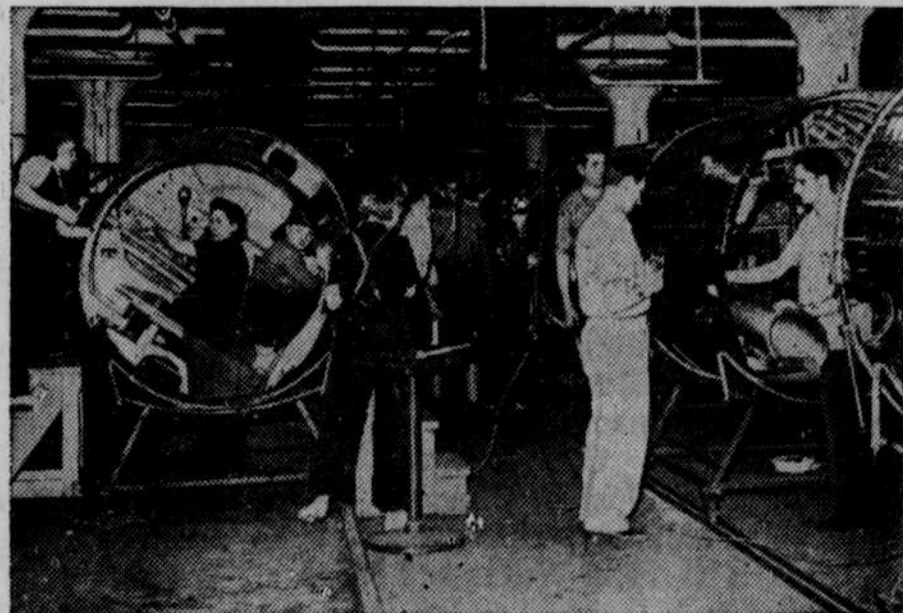
Many metal roofs on farm buildings are laid over slats. G. R. Shier, specialist in agricultural engineering, Ohio State university, says that only corrugated metal has enough stiffness to be laid over slats without courting trouble. Other metal roofing should be placed over solid sheathing.

All types of metal roofing should be nailed every eight inches along the side lap even when the spacing of the sheets makes it necessary to insert short strips to provide places for nailing. It is almost impossible to lay metal roofs which will not leak on nearly flat-topped sheds attached to barns.

Tree Tobacco Insecticide

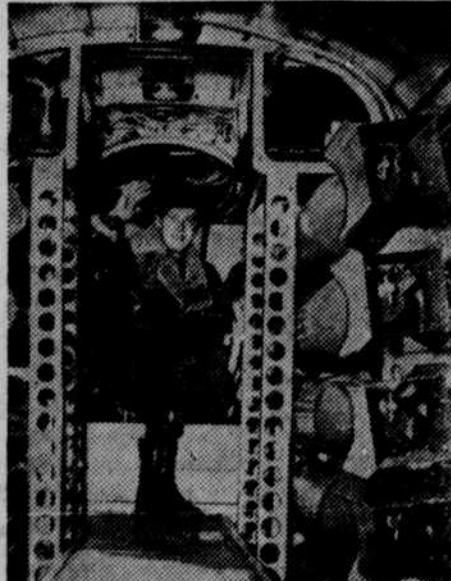
The possibility that tree tobacco, now a worthless weed in the arid sections of Mexico and southwestern United States, may become a valuable cash crop is seen by United States scientists who have extracted from it anabasine, a valuable insecticide. The product was not discovered in the tree-tobacco plant until 1935, although it had been produced synthetically and found in an Asiatic plant six years earlier than the first test in the U. S.

Two Changes in Detroit Assembly Lines



Production lines are moving again in Detroit factories, but planes are now being made instead of automobiles. Then, too, there are women in the plants. At this large plant, which formerly made auto bodies, we see an entire assembly line (left) made up of women. The line at the right is made up of men. They are fabricating engine nacelles for bombers.

Goes 'Upstairs'



A cadet at the bombardier school in Albuquerque, N. M., waves all clear to the ground crew as he makes his way through two racks of bombs to nose of bomber. He has passed all tests.

Sniffing Death



To enable students to learn various gases by sniffing—safely—Rev. F. Hickey, head of physical chemistry at Providence college, Providence, R. I., has manufactured "sniff sets" of five noxious gases. He is shown above with one of the sets.