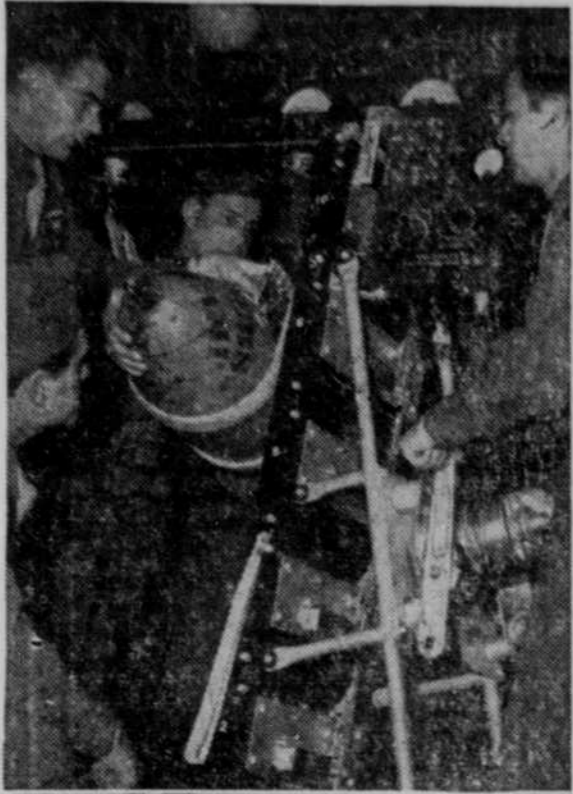
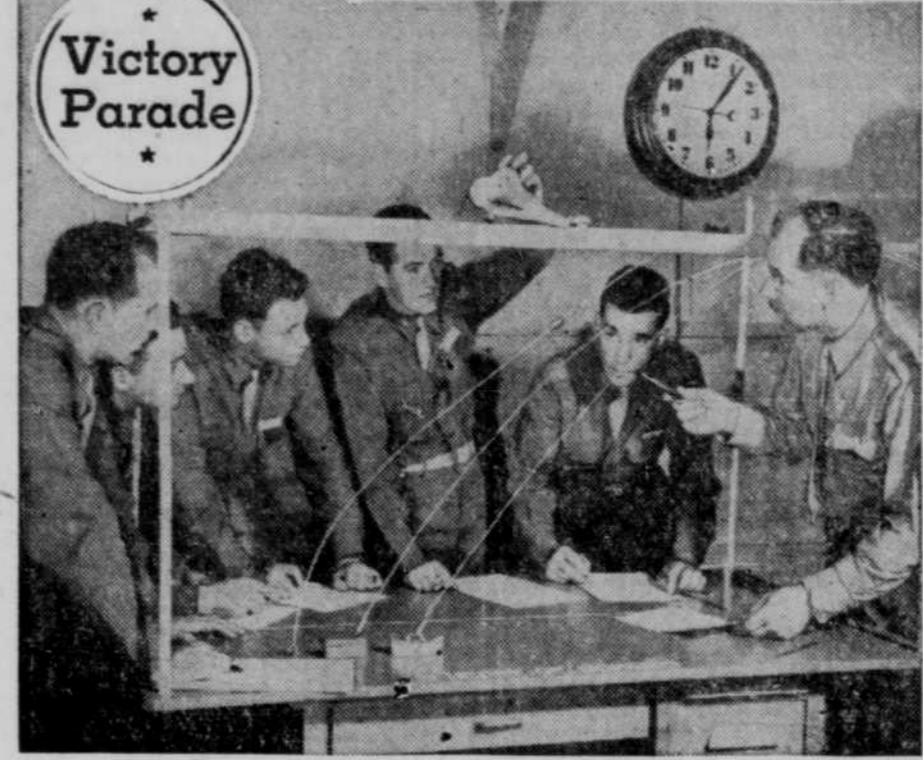


Synthetic Bombing Aid to Uncle Sam's Bombardiers

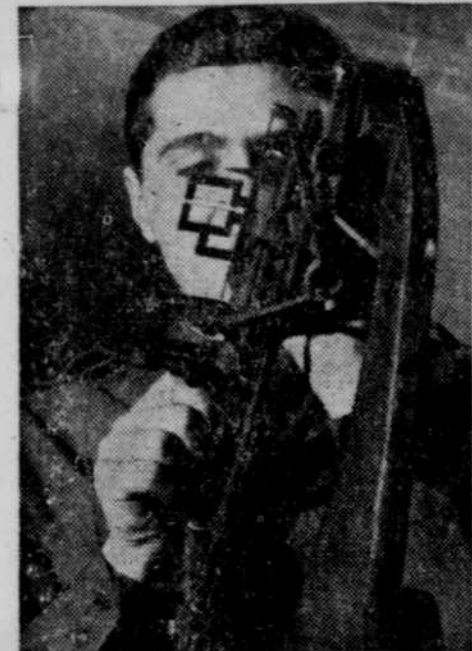
Something new has been added to the training of Uncle Sam's bombardiers. It is "synthetic bombing," which is the technical term for use of models and gadgets to simulate, on the ground, the procedures of actual bombing. At the world's largest bombardier school, Midland, Texas, synthetic bombing has been developed to a point where everything but the explosions of real bombing can be duplicated in classrooms and huge training hangars. Synthetic bombing is planned to enable students to gain experience in use of the secret U. S. bombsight before they actually go aloft on practice missions over the vast nearby target ranges. It is used to teach them in graphic detail, the principles of bomb loading, bomb trajectory and precision bombing.



Right: Using a classroom model of a plane's bomb bay, cadet bombardiers learn how a "big boy" is hoisted to its place in the bomb racks.



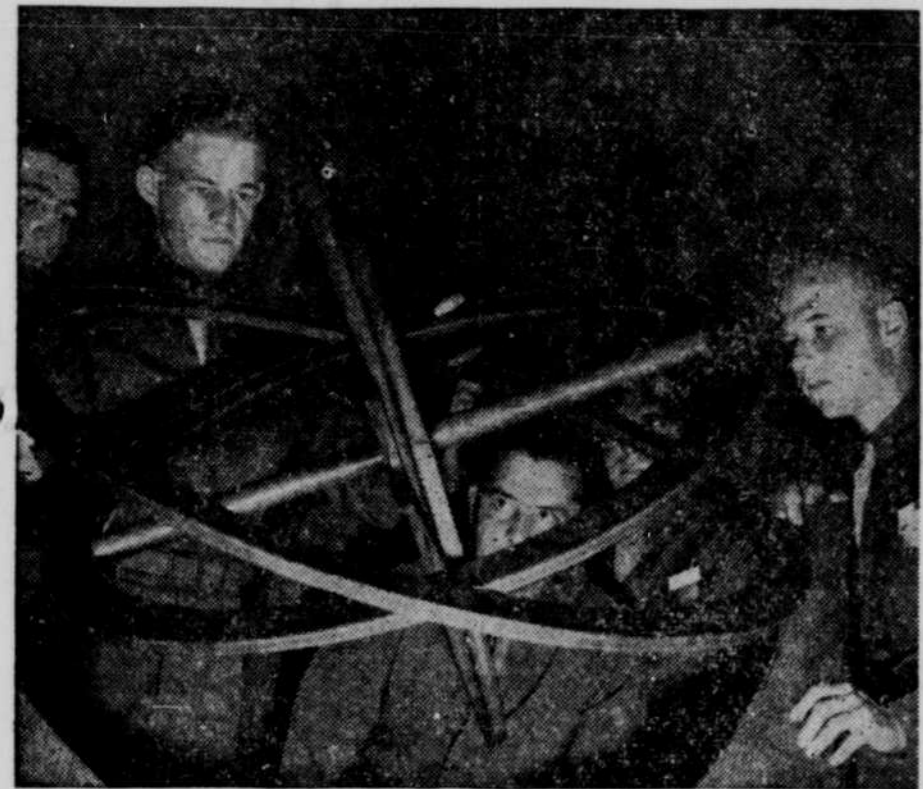
Synthetic trainer. Miniature plane slides along track at top, releasing toy bombs along wire tangents.



This is Uncle Sam's bombsight, 1918 model. Sighting through it, a cadet bombardier at the AAF bombardier school learns basic principles.



Bombing trainer shown under guard. This device enables bombardiers to gain practice in use of the secret U. S. bombsight without leaving the ground.



Bombsight class. Learning the principles of the secret U. S. bombsight, cadet bombardiers at the Midland AAF bombardier school study the principles of a gyroscope. Oversize model shown above is one of the "gadgets" used in synthetic bombing.

In closely guarded classrooms, student bombardiers see in operation enlarged models of parts of the famous American bombsight. Studying these models, they rapidly learn both operational and maintenance problems connected with their deadly instrument.

Synthetic bombing, developed almost from scratch during the past year at the Midland bombardier school, is principally the work of a group of ex-university science professors who make up the ground school faculty of the West Texas bombardier college. According to the director of training, synthetic bombing has greatly speeded up the preliminary phases of bombardier training.

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In Riding a Bicycle, We Balance With Our Ears

The transportation restrictions have sent many thousands of people back to the bicycle. Some of us had not ridden a bicycle for years, but the art of balancing on two wheels came back to us easily enough.

Now, why don't we fall over? The tires on the bicycle are a semi-circular pattern, you will have noticed, and when you come to think about it they do look pretty precarious. In fact, it is obvious that you are going to hold them up, not they hold you.

"Nonsense!" exclaimed Elmer Twitchell today. "For the past year I have lived largely on cinema meals. Hungry and weak, I have gone to a movie and found my appetite appeased in no time.

"There was one spell when I had lost ten pounds. I went to a Cecilie DeMille picture and put on fifteen in the first reel!

"With new ration rules coming every day and with the people having troubles galore getting food, the one source of relief has been those Hollywood feasts. Even a breakfast as shown by most directors was enough to make you unbutton your



To restore jam or jelly after it has become hard and sugary, place in a warm oven and leave there until the sugar softens. This will make the jam or jelly as good as before.

Wilted vegetables may be made crisp if covered with cold water and allowed to stand several hours in the refrigerator.

To prevent the lower crust of fruit pies becoming soggy, brush over with the white of egg before putting in fruit filling.

YOUR tape measure and a little figuring can help you save material when making those new slip covers. In estimating goods remember that the length and width of each section must be the same as the widest and longest measurement of the part of the chair to which it is to be fitted plus seams, seat tuck-in and flounce fullness.

Slip cover material usually comes in 36 and 50-inch widths. Frequently a narrow chair back may be covered by splitting a 50-inch width of goods. For other chairs 36-inch material might be

If ivory enamel is to be used on furniture an undercoat of flat ivory paint first should be put on. Imperfections in the application of enamel will show less if a flat coat is added first.

Sprinkle a cake with cornstarch before icing to prevent icing running off.

When hanging pictures remember that the center of the picture should be on the level with eyes. If you are unusually tall, this rule does not hold good.

Smile Awhile

His Prerogative
The conversation had turned on the ways of wives.

"Well," said Brown, "when my wife and I have an argument I always have the last word."
"Oh," exclaimed someone. "You do?"
Brown nodded.
"Yes. I apologize."

A monologue, wrote the school boy, "is a conversation between two people, such as husband and wife."

Should Know Them
There was a scream of brakes as the bus pulled to a sudden stop, to avoid a flustered-looking pedestrian who was dithering in the roadway.
Crimson with strain and rage, the driver leaned out of his cab. It was plain he was controlling himself with a great effort as he asked politely: "May I ask what are your plans, sir?"

Only He Knows
Mistress—Marie, you were entertaining a man in the kitchen last night, weren't you?
Marie—That's for him to say, ma'am. But I tried my best.

Trouble seems to be a patriotic affliction. It makes the eyes red, the hair white and the feelings blue.

Some Reputation
Magistrate—Is the prisoner a known thief?
Constable—A known thief? Why, he'd steal the harness of a night-mare.

Peaceful Andorra
Unharmful and unmolested by the conquering Napoleon and more recently by Hitler's armies is a small nation, Andorra, which lies between France and Spain on the slopes of the Pyrenees mountains. During the long winter months the people of Andorra (pop. 5,000) are "holed in" as the mountain passes become obstructed by snow. Frequently farm animals are kept inside the homes to utilize the warmth of their bodies. Murder has never been committed in Andorra, according to records.

Could He?
Said Mr. Henpeck, who had just overheard his wife scolding the maid: "You and I seem to be in the same unfortunate position, Mary."
"Not likely!" replied the maid. "I'm giving her a week's notice tomorrow."

Seizing Opportunity
Man at Door—Do you believe in free speech?
Housewife—Why, certainly I do.
Man—Fine. Let me use your telephone.

Not Kidding
"See that bevy of quail in the underbrush?"
"Yes."
"Well, watch me shoot a hole clear through the red barn behind 'em."

ASK ME ANOTHER?
A General Quiz
The Questions

1. Exclusive of the armed forces, how many people are now on the federal payroll?
2. What was the real name of Billy the Kid?
3. What is the approximate area of Alaska?
4. What is the position of the Tropic of Cancer in relation to the equator?
5. An Andalusian is a native of what country?
6. Who is the patron saint of the huntsman?
7. Who introduced the resolutions on June 7, 1776, that the American colonies should be independent?

The Answers

1. Two million, five hundred thousand. The payroll totals \$400,000,000 a month, \$5,000,000,000 a year.
2. William H. Bonney.
3. About 586,000 square miles.
4. North of the equator.
5. Spain.
6. St. Hubert.
7. Richard Henry Lee.

Do you know the new regulations on packages sent to men in the service? Here they are: You can send packages to soldiers anywhere in the U. S., although there are now Post Office restrictions on packages to overseas Army men; and you can send packages to men in the Navy, Coast Guard, and Marines, wherever they are. And when you send that package from home, remember—the gift men in the service always appreciate is cigarettes. And the favorite with men in the Army, Navy, Coast Guard, and Marines is Camel (based on actual sales records in Post Exchanges and Canteens). So stop in at your local dealer today—and mail him a carton of Camels.—Adv.

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CHAFED SKIN
Raw, smarting surface relieved amazingly by the soothing medication of **RESINOL**

SNAPPY FACTS ABOUT RUBBER

War workers cars are being checked in company parking lots by at least one manufacturer to make certain that tires are kept in serviceable condition. If the worker fails to have his tires re-tapped in time he is denied further application either for tires or receipts.
It takes three to eleven times normal distance to stop on snow or ice without tire chains, and you can't negotiate slippery hills with bare tires that spin on packed snow, waste gas and wear tires.
Each tonner on a rubber plantation is responsible for about 300 trees, which in one day's tapping will net an average of 50 pounds of latex, equal to about 17 pounds of dry rubber.
Automotive conservation authorities in New Hampshire boast of the reduction of that state's tire needs by 57 per cent as an example of what can be done in saving rubber now on motor vehicles.

Jerry Shaw

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