What Science Is Doing

SOME BIG BUSINESS IN

Elmer von Glabn, a farmer in California, also rates as a big b ness man, as his 40,000 acre tract year, says Popular Science Month-

With a floating dredge capable of running half a year without re-fueling, five airplanes, and a fleet of tractors, trucks, and land scrapers. Von Glahn will harvest grain and cotton worth \$1,500,000 his farm this year. This 40,000-acre farm in the San Joaquin Valley has been made as fertile as the Nile Valley by the ingenious and intelligent use of machinery, which not only plants and harvests the crops, but keeps under control Tulare Lake, the source of life to the farm yet a constant threat

On Von Glahn's farm-lying in a 25 mile crescent on the shores of the lake-irrigation is done in a big way. Four huge electric pumps suck up 12,000 gallons of water a minute, five other sets lift it 36 feet and fill 25 miles of main canals and hundreds of miles of secondary ditches. Water is turned in on patches as big as 2,500 acres and allowed to stand

for 20 days or so at a time. But this farmer is not content with ordinary irrigation. In a drought, even the deepest canals might fail. To meet this possibility there is ready a wheeled machine which can scoop water from wells and lay it over an acre a day to a depth of from 1 to 12

Glahn tours his lands by plane. His special machine for flood fighting is a huge floating dredge with a three yard bucket. It is operated by a two man crew and can be rushed to any danger spot in the levee for quick repair work before crevices become too large.

In an elevator and warehouse, an hour as it rides endless belts

Likens Raids To "Gentle Zephyrs"

Air Chief Marshal A. T. Harris bombers a night soon might fly over Germany and that many might fly directly from America

"with formidable bomb loads."

The commander in chief of the Bomber Command declared the present massive raids on Germany were but preliminary warm-ups for terrific punishment in store for

"One day in the near future it might not be impossible to have 10,000 bombers over Germany in one night, including hundreds which could fly direct from America with a formidable bomb load, though, of course, this is only a surmise," he said.

Bigger and Better ite the massive raids on Cologne and Esen, in which more than 1,000 bombers were used on each. Air Chief Marshal Harris de clared that heavy bombing "hasn't been tried yet."

"Some people argue that heavy bombing will not win wars," he "To them I answer that it Germany will be the experiment and Japan will be the confirma

He likened the raids which laid the northern ports of Lubeck and Rostock in rubble to a "gentle

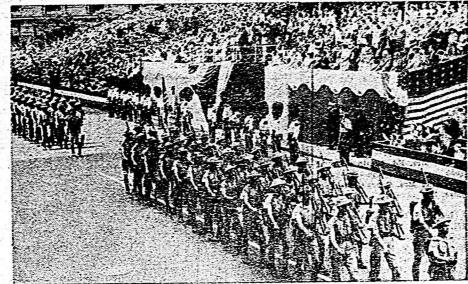
The Bomber Command indicated the raids will continue at a dramatically increased scale and said when the United States Army Air Corps gets permanently into action, three or four times the number of bombers which raided Cologne will be used.

Searching a Prisoner



Nazi prisoners bound for Can-ada are searched before they leave prison camp in England, again as they embark, when they land on this side and as they enter the Canadian camp. This German of-ficer is being given a going-over by a Canadian provost corps man.

NEW YORK'S GREATEST PARADE—FOR VICTORY



With 500,000 marchers and 2,500,000 spectators, New York went all-out in its greatest parade-a 10-hour, day and night procession of victory-confident Americans. British troops, in their summer uniform shorts, add an international note to the spectacle as they swing past Vice President Wallace and King George of Greece on the reviewing stand.

Establishes Joint **Production Board**

U. S. and U. K. To Pool All Food Resources

A saving of 25 per cent in ocean shipping space may result from the establishment of a British-American War Production Board, authoritative sources estimated

recently.

In addition, further economies in cargo space may be effected through the creation of an Anglo-American food board

The two new agencies, designed to combine the war and food production efforts of the two coun-tries, were announced by Presi-dent Roosevelt in behalf of himself and Premier Winston Chur-chill. Donald M. Nelson, war production board director, and Oliver Lyttleton, British minister of production, will form the production

Three Objectives An authorized spokesman said these three objectives were the

immediate goals:

1. Savings of shipping space through allocation of production in such a way that supplies could be moved from the producing area closest to the war theatre for which they are intended. In some cases—such as India—machine tools and equipment might be moved there to set up local manu-

facturing units.

2. Standardization as far as possible of weapons used by the Unit-ed Nations so that ammunition parts would be interchange

3. Consideration of the total United States - British production capacity as one vast industrial empire in order to gain a maxiof efficiency from existing

machinery.

Only the two countries were included in the plan because other United Nations powers are not producing war materials sufficient to meet even their own demands, and thus have no shipping prob-lem. Mr Roosevelt made clear, however, that Canada would participate in any joint action through her membership on the British Supply Council. -

Combined Food Board One development from the joint production effort, officials said, might be a concentration of production in the United duction of fighter planes. Bombers be flown to England, but smaller planes have to be taken in

The "combined food board" was expected to fulfill virtually the same functions in regard to cor-relating the production and disrelating the production and dis-tribution of food among the Unit-ed Nations. It also will seek to reduce shipping space by restric-tion of non-essential imports, in-creased use of concentrated foods and improved methods of stowing

and packing.
In addition the board will deal with all other questions of food policy and strategy. The entire food resources of the United States and Britain will be considered as a common pool.

Airman Sits On Hot Nazi Bullet

When PO. Arthur White eased out of his bomber and called for medical treatment the doctor said his trouble was a severe burn so it wasn't only White's feelings

that were injured.

The fact is that this 21-yearold wireless operator-air gunner from Binscarth, Man., sat on a red hot Nazi bullet while flying in a low-level attack against enemy shipping off, The Nether-

A steep climb after his Hudson bomber dropped its cargo on to a ship lifted White off his seat in the plane's tail. At the same time he felt lead cut down the side of is flying suit. Then he sat down—but hopped

right up again in a hurry because there on his gunner's seat, smouldering away, was a red hot bullet. It had zipped through his heavy flying suit, ricochetted off the oil line and gouged two pieces out of the gunner's chair before com-

The Belgian Congo is 80 times a twelfth of the African continent.

HOW CAN I?

Q. How can I remove iron rust? A. Iron rust is easily removed by applying a mixture of salt and lemon juice. Rub thoroughly.

Q. How can I stiffen organdie trimmings, such as collar and cuff

sets?

A. They will have just the right amount of stiffening if they are dipped into water in which rice has been boiled.

Q. How can I mend a small hole

in a screen?

A. By first trimming the edges until it is roughly square. Cut a new piece of wire cloth about an inch larger each way than the hole. Pull out several wires on each side of the patch and bend so that the wires stick out at right angles. Place over the hole and push the wires through the screen, bending back through the screening until the new piece is

firmly in place.

Q. How can I make the flower pots look attractive?

A. Cover the pots with two or three thicknesses of paraffin - paper, then with crepe tissue paper. The paraffin prevents moisture penetrating to the tissue

Q. How can I soften dried shoe

A. A small quantity of turpentine added to dry shoe polish will soften it almost immediately.

Price And Supply Of Beef Ensured

Important steps have been tak-en by the Wartime Prices and Trade Board to control both the

supplies and prices of beef.

The establishment of a Food Corporation operating under the Foods Administrator, and the li-censing of all exporters of beef cattle, will ensure that there is a sufficient supply of beef for, domestic consumption.

For the purpose of fixing the wholesale prices the country has been divided into fifteen zones. In each zone there is a fixed wholesale price for the highest qualities of all classes of beef. In setting the prices, due consideration has been given to differences in transportation costs, and the seasonal variations in the cost to the farmer of feeding his cattle. The prices are set for a period and are liable to seasonal

revision.

The retailers of beef must now conform to certain regulations regarding their make-ups, and all their transactions with the wholesalers and packers are open to government inspection.

Thus, with the wholesale prices fixed, and the retailers costs and mark-ups regulated, the Canadian housewife can be assured that the price of beef is very definitely under control, and the price ceil-ing structure will not be broken.

Taught To Swim In Flaming Water

The four trunk-clad Navy officers emerged dripping from the flame-swept swimming pool, looked ruefully at the sun—and com-plained of its blistering heat.

The officers were giving the final test to the most spectacular swimming lesson to be taught at the United States Navy's pre-flight training school at the University of Georgia-that men can swim through burning oil and gasoline

and escape injury. Lieut. W. F. Foster, chief swimming coach at the school, and a former instructor at Southern Methodist University, termed the test "extremely satisfactory".

The swimmer propels himself under the blazing oil until his lung-held oxygen supply is about exhausted. At this point he pushes hard for the surface and as he breaks water, slaps the flames away, takes a deep breath and sinks again.

TCH STOPPED in a diffy or Money Back

Have You Heard?

An alderly woman had been to hear her nephew preach for the first time, and she thought it a very poor sermon. Later that da that day she asked:

"James, why did you enter the ministry?"
"Because I was called," he ans-

"James," said the aunt, looking solemnly at him, 'are you sure it some other noise you

The following correction appeared in a local newspaper: We stated last week that Mr. John Doe was a 'defective' in the police force. This was a typographical error. Mr. Doe is really a detective in the

Hot words had passed between the two youngsters so rapidly that finally they both halted for want of ideas. Then one had a brain

"Garn!" he sneered. "Yer muyver takes in washing!"
"Course she does," retorted the other, "D'ye think she'd leave it

aht in the black-out for your muv-ver to pinch?" "Does the foreman know that the trench has fallen in?"

asked the contractor.

"Well, sir," replied the
workman, "we're digging him
out to tell him."

Sandy was thinking seriously of marriage, "And do ye no' read in bed?" he asked Jean anxiously. "Ay, Sandy," replied Jean, who wasn't Scots for nothing.

ony be it a bricht munelicht nicht,

ye ken. She got her mon.

Husband: "You must think automobiles grow on trees."
Wife: "Silly! Everybody

"By Jove, old boy, I couldn't bain hospital. Why, last night I saw you dancing with a pretty blonde."
"Yes, so did my wife."

"Agnes married a self-made

"Yes, but she compelled him to make extensive alterations."

"Kill That Rat"

The government has declared war on rats as part of the war on the enemies of democracy. At when everything po is being done to combat waste to the benefit of the greater war effort, it is estimated that rats do damage of at least \$115,000,-000 a year in Britain in their gigantic secret banquets in places where the nation's food is stored.

An Agriculture Ministry film "Kill That Rat" is being shown all over the country to make the people rat conscious.

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Shortage Of Steel Is Really Serious

Bottleneck In War Production Due To Lack of Scrap

Steel is the most serious bottleneck in American war production and strategy, it is claimed. Ship shortage, says The Quebec Chron fele-Telegraph, is cramping us, both in importing was materials and in exporting the material for war, including armies. Rubber is cramping us by depriving us of a recreational escape and by threa-tening to keep men away from work for lack of transportation. But if we had enough steel we could solve these other two short-

Actually, we have not even got the steel with which to build the plant to make the steel we need At the end of this year it is esti-mated officially that the United States will have the capacity to produce 92,000,000 tons of steel annually. But with that, the experts say, we shall not make more than \$5,000,000 tons, notwithstanding the crying need for the metal both for direct use production and for expanding plant.

The reason? Not reluctant cap Ital, Not shirking labor, Not lackadaisical officialdom, and not in-efficiency. It is simply that we have not got enough scrap. And palatable when we recall all the scrap sold to Japan and Italy be-fore the war. In this situation America's 20,000 automobile gravehave acquired enormous value. A survey indicated that on May 1 these places were harboring a million and a half discarded cars.

The average junked automobile contains 1,500 pounds of steel. Multiply this by a million and a half cars, and there is more than million tons of scrap. Mixed half and half with pig iron, the automobile graveyards are capable of contributing to the making of two and a quarter million tons of steel. A lot of guns, bombs or hand grenades, dedicated to the Nazis and the Japanese can be made from that But in addition. other sources must be found from which to get another two and a half million tons of scrap, if American steel plants are to be worked to capacity from now on.

The British have met a similar problem with civilian sacrifices not yet even suggested on this side of the water. The government over there has confiscated all iron gates and railings except the few of genuine historic, artistic or safety value. All the parks have been reft of their metal railings. Those around nine famous London churches provided the making of six medium-sized tanks. not being asked for such sacrifices as these, yet. Probably we will not be. But at least every possible effort should be made to impress ness of the scrap situation.

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H.M.S. "Penelope" Now "Pepperpot"

Cruiser Shot Full of Holes

The British cruiser Penelope is so full of holes her crew has re-christened her the H.M.S. "Pepperpot," but she's being patched up to defy again air and sub attacks. her skipper said, in telling of his hair-raising experiences.

Captain Angus Nicholl said his ship, called one of the bombed boats affoat," had been patched up at Malta, again at Gibraltar, and now is at an Eastern United States port for a "face-litting" operation.

She was a whole ship when Nicholl assumed command in March, 1940.

During air raids at Malta, she earned the nickname "Pepperpot. Between Malta and Gibraltar, the crew ran into more gunfire and plugged her holes with wood. For a while the crew called her the "Porcupine."

After a direct bomb hit, the decks were so littered the crew al-luded to her as "The Rock Gar-

"It's not so had being bombed at sea," the doughty skipper said.
"You can twist and turn and wriggle. You watch the plane until he is committed to his dive, and then change your course.
"You feel hurt in your dignity

if you are hit at sea.' Captain Nicholl told how an aerial bomb hit the gangplank when they were tied up helplessly at Malta. Shrapnel killed one ofwonding 50 others.

"I got a splinter in a place not usually mentioned," he said. But repairs which were expected to take a month were com-pleted in two weeks by an undaunted crew.

About the time the Germans reported the Penelope "seriously damaged," he took to the Mediterranean where the ship and crew withstood an all-day sky attack before the Italians wheeled their planes off, disgusted.

In Gibraltar he repaired "worn

out" guns and replaced the wooden plugs with steel repairs. Except for a convoy battle, the trip across the Atlantic was "quite uneventful." Capt. Nicholl said. More than 1,000 shrapnel holes are being repaired in the hull of

Modern Etiquette

1. If the wedding is to be se that wedidng invitations are not engraved, how should the bride and bridegroom invite their

2. If a man is walking wit woman and someone who stranger to him bows to his panion, should he also retu

3. If there are two serving luncheon, how do proceed around the table?

4. Should one ever praise 60 member of one's own family? 5. Isn't it the duty of a hostese, at a small luncheon or dinner party to introduce each guest in-

dividually to all the others?

6. Which is the correct form, when a husband and wife are signing a greeting card, Mary and John or John and Mary?

1. The bride should write each invitation personally, 2. Yes, always, by lifting his hat. 3. They should start at opposite ends of the table, each proceeding to her right and serving only one side of the table. 4. No; this is almost as ill-mannered as to praise one-self. 5. Yes; the alert hostess never fails to do this. 6. Mary and John is the correct form.

12,000 Said Killed In Cologne Raid

Reuters said in a recent dispatch that Otto Abetz, the German "Ambassador" in Paris, had acknowledged in conversations that 11,000 to 12,000 persons were killed in the RAF-RCAF-bombing of Cologne and that 180,000 per sons had been ordered evacuated.

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