

Millions and possibly billions of dollars worth of treasures now lying on the ocean floor in sunken ships may be regained to the world by the "cannon ball." The great diving bell has just been completed and is now being tested. It resembles a cannon ball, a giant sphere, eight feet in diameter. The shell is made of tough vanadium steel, one and one-fourth inches in thickness and weighs, with the machinery inside, six tons. The submarine works by maneuvering huge steel pontoons alongside a sunken ship, bolting the pontoons to the vessel and thus releasing the mechanism which pumps the pontoons free of water and raises the sunken ship. The largest pontoons are 40 feet long and 15 feet in diameter, and have a lifting power of 300 tons each.

Two operators form the crew of the diving bell and they work in normal atmospheric conditions because of an oxygen tank on top of the sphere. The nir supply will last for 72 hours without being replenished. The supporting cable and all electrical and telephone wires are carried in an insulated cable, which is strong enough to support 56 tons.

Two propellers and a rudder give the ball lateral movement and two propellers send it up and down. These propellers push the ball through the water at two miles per hour.

In front of the ball are four 3,000 candle power nitrogen lamps, covered with a steel net, and a two-inch glass, to light up the hulls of the sunken ships. Near each light is a lookout lens four inches in thickness. On the front are huge magnets, which draw the ball to the hull of the sunken vessel.

should produce eggs enough, where used economically, for a family of four or five persons throughout the entire

year, except during the molting period of the fall and early winter. By the preservation of surplus eggs produced during the spring and early summer this period of scarcity can be provided for. The keeping of pullets instead of hens also will insure the production of eggs. Not only will the eggs from the home flock materially reduce the cost of living, but the superior freshness and quality of the eggs are in

pended. Eggs are a highly nutritious almost indispensable, and an occasional chicken dinner is relished by every-

Where conditions render it feasible and cheap small flocks of poultry lages and towns and especially in the suburbs of large cities. The need for this extension of poultry raising is particularly great in those sections where the consumption of poultry products exceeds the production, with the result that prices are high.

Home-Grown Sweet Corn Is Best-Good Advice on How To Grow Your Roasting Ears

To have sweet corn at its best, says the U.S. department of agriculture, it should be on the fire within 15 minutes after being pulled from the stalk. It starch. This is a fine argument for having this crop in the home garden, f space will allow. Those who wish to grow their own roasting ears will find the following advice useful:

Corn does best in a fertile soil, but cendiarism is suspected. is able to adapt itself to all textures from sand to clay. To grow it in sufficient quantities for the average family requires more space, however, than for most garden vegetables. It should

not be planted until after danger of frost is past.

tance had best be three and one-half Bluestem, Fortyfold, White Valley, feet. stand from 15 to 18 inches in the row. White Club - Little Club, Jenkins In planting, the seed is covered with Club, White Hybrids, Sonora, \$2.01. one or two inches of soil. Cultivation Red Walla-Red Russian, Red Hymust be thorough, frequent, and shal- brids, Jones Fife, Coppei, \$1.98. No. low.

It is possible to use the ground occu- Other grains handled by samples. pied by early corn for a fall planting kale. Large, late varieties of corn. barley flour, \$11 per barrel; rye flour however, will occupy the ground for practically the whole season.

CONSERVE SUGAR, IS APPEAL GERMANY BLAMES RUSSIA

Not to Hoard.

"You are entitled to an extra amount of sugar these days for home canning. Do not permit this privilege to tempt you to do a wrong to your neighbor and your country."

This is the message from the National Food administration to Ameri- for the conflict primarily placed upon can housewives in a bulletin received by Northwest Federal Food administhemselves well worth the effort ex- trators. The bulletin continues:

food and are so widely used as to be you need it and keep your canning day. sugar separate from your table supply. Cut down on your table and cooking sugar in order that all housewives may sired for the German people and their have sufficient for canning and pre-serving the foods that would otherwise existence," within the boundaries serving the foods that would otherwise existence," spoil. Sales of sugar for canning pur- drawn by them, "by history," the forshould be kept to a greater extent poses are limited to 25 pounds at a eign secretary said Germany would than at present by families in vil- time for the present. Because of a have to decline to make any prior conlack of ships, sugar is coming into the cessions by stating her position as to country slowly and it must be distrib- Belgium in a way which would bind uted accordingly if all are to be sup- her without similarly binding Gerplied."

Some terse paragraphs regarding conservation of food are found in Food that had been made showed Russia as administration bulletins coming in the power which planned and desired from other states, among these being: the war, with France abetting her, "The next wheat crop will be a big and England's attitude strengthening one, but who knows what will be the the Russian desire for conflict, Dr. size of the one to follow? Hoover von Kuehlmann again declared that wants to store some of the big crop Germany had not entertained any beagainst a lean year that may come. lief that this war could lead even to Help him, not only for yourself, but the domination of Europe and much for the boys at the front and for our less that of the world. patient, long-suffering allies."

Big Lens Factory Burns.

Wheeling, W. Va. - Fire destroyed loses quality very rapidly after being the property of the Superior Glass telcked because its sugar changes into company at Martin's Ferry, Ohio, 30 miles from here, shortly after 1 o'clock not couched in ambiguous terms. Sunday morning. The loss is estimated at \$200,000. For more than a year the company has been engaged in the manufacture of searchlight policy. lenses for the French government. In-



The rows should be spaced not clos- No. 1 grade; Hard wheat-Bluestem, er than three feet apart, and for the Early Bart, Allen Galgulus, Martin larger-growing late varieties the dis- Amber, \$2.05. Soft white - Palouse Stalks should be thinned to Gold Coin, White Russian, \$2.03. 2 grade, 3c less; No. 3 grade, 6c less.

Flour-Patents, \$10; valley, \$9.60; of such crops as spinach, turnips, and whole wheat, \$9.60; graham. \$9.20; in possession of the entire river front \$11@11.40 per barrel; corn flour, \$11.60@14.50.

Millfeed - Net millfeed prices, car lots: Bran, \$30 per ton; shorts, \$32; ing them, inflicting heavy casualties milddings, \$39; mixed cars and less and forcing the enemy to continue his than carloads, 50c more; rolled barley, disorderly retreat.

Food Administration Asks Consumers Cause of War Laid at Door of ex-Czar -France and England Criticised.

Amsterdam. - Germany's war aims were briefly set forth, peace ideas outlined, the idea that she desired to secure world domination through the war disclaimed and the responsibility Russia by Dr. Richard von Kuehlmann, the German foreign secretary, in a "Don't hoard sugar. Buy it just as speech to the reichstag in Berlin Tues-

> While declaring that what was demany's enemies.

> After declaring that the revelations

With reference to the peace question, Dr. von Kuehlmann quoted from former rremier Asquith's speech of May 16, in which he said that the British government would not turn a deaf ear to a peace proposal if it was

"We likewise can make the same declaration," added the foreign secretary, "knowing it to be also our

"Once the moment arrives-when, I care not to prophesy-that the nations which are at present locked in battle will exchange peace views, one of the preliminary conditions must be certain degrees of mutual confidence in each other's honesty and chivalry."

Wheat - Bulk basis, Portland for ROUTED AUSTRIANS CONTINUE RETREAT

Italians Press on East Bank of Piave **River-Flood Waters Rise Again**

Which Aids Fleeing Foe.

The Italians have cleared the remaining Austrian rearguards from the west bank of the Piave river and are from the Montello plateau to the sea. At last accounts their forces which crossed the stream in pursuit of the Fate has turned somewhat its bal Hay-Buying prices, f. o. b. Port- ance in favor of the Austrians, for the land: Eastern Oregon timothy, \$32@ Piave river again has risen and some 33 per ton; valley timothy, \$27@28; of the pontoon bridges the Italians had thrown across the stream have been carried away, making impossible a quick pursuit and the crushing of the Austrians, which General Diaz had the east. The Austrian war office admits a ceipts, 381@39c; candled, 40@41c; reverse along the Piave, but announces that the retrograde movement has been carried out in accordance with plans and without loss of material. It is added that the Austrians have taken more than 50,000 prisoners from the lialians since June 15 and that the aggregate losses of the Italians in the fighting, at the lowest estimate, is Holding the upper hand along the borders of the Venetian plain, the Italians have taken the offensive against the enemy in the mountain region and are attacking on various sectors. Notable gains of ground have region have been repulsed.

Business Before Pleasure

Never before did so many Americans spend so much money in Europe, or for such a good purpose.

Silence is usually the best asset of a good-looking woman. Wonder if the cannibals were informed of the dates of meatless days.

It is always hazardous for an unattractive woman to shoot her hushand.

The man who eats garlic can always attract attention if not fame.

Beef for Soldiers' Use Is Under Official Observation From the Pens to Mess Tins

Every precaution to prevent an "embalmed beef" scandal in this war is being taken by the war department, it is announced at Washington.

At present the army consumes about 2.000,000 pounds of fresh beef dailythat is to say about 4,000 head of cattle. And it is under inspection from the time the live stock goes to the slaughter house until it reaches the mess tins of the individual soldiers. It is left to the men themselves to see that nothing happens while the meat is en route from the mess tins to their mouths.

Beginning with the beeves on the hoof, an examination is made for physical defects and all questionable animals are rejected. Then the carcasses are gone over, and only those "sound, healthful and wholesome" are passed.

Fresh meats marked "Inspected and Passed" go forward to the camps in how economical the housewife, there what to call 'im as regular shipments, but meats cured, canned or manufactured into sausages, etc., are reinspected at each step of the process.

Fresh meats arriving at the camps are again twice reinspected, first by an inspector of the bureau of animal industry, and second by an officer of the quartermaster corps. And after food in the form of eggs and poultry that there is a final inspection by the organization commander who draws the ration for immediate use. After from each city flock is small of itself that the company cooks have their the aggregate is large. A small flock

why the Temperature is Not Hotter Nearer the Sun Is Made Plain by Scientific Men

Why is the air generally much colder a mile above the earth than near the ground? The heat of the atmosphere comes from the sun, but by a somewhat indirect process. The incoming sunbeams are only slightly absorbed by the dry air at high levels, and so have little effect on its atmosphere. In the lower regions of the atmosphere there is always a considerable amount of water vapor (water in the form of gas), and this substance has a relatively large capacity for absorbing heat from sunshine. Lastly, the earth absorbs all the heat that falls upon it, and then gives it back, by radiation or conduction, to the air above it. Thus the atmosphere is mainly heated from below and not from above. Air heated near the ground tends to rise, but it cools rapidly in rising. As it reaches higher levels the pressure upon it is less; it expands, pushing away the surrounding air, and it uses up in this

work some of the energy that it originally possessed in the form of heat. This process is referred to by scienticts as "adiabatic cooling." This explains why the heat of summer often seems to come up from the ground, rather than from the boiling sun above. -Popular Science Monthly.

***** **KEEP POULTRY IN BACK YARD**

The department of agriculture has a campaign in full swing for the establishment of small flocks of poultry in It sort o' keeps us back yards of city or suburban dwellings. In every household, no matter me to think up is a certain amount of table scraps and the provocation kitchen waste which has feeding val- arises.' ue, but which, if not fed, finds its way into the garbage pail. Poultry is the only class of domestic animals which is suitable for converting this waste material, right where it is produced in the city, into wholesome and nutritious

meat. Though the value of the product

chance-to make the food palatable. of hens, even as few as six or eight, cause it wins in a walk.

JUST FOR FUN ****** Reasonable Suspicion.

"It must be a lot of satisfaction for maid."

"No doubt. Still there are drawbacks."

"Of what kind?"

"If the maid happens to be chic, It isn't long before her mistress is wondering what sort of effect Marie is having on friend husband."

Very Much Tried

a jury?

What Detained Him.

ing," said the manager.

buttons to the back of her waist every day."

Not for That Reason.

The electrical expert was breaking "Never touch the wires with your

Charm of the Impromptu.

"What's your mule's name?" "He hasn't got any reg'lar name. both interested for

A Good Speech.

"Did he make a good speech?" "Great. In the first place he s something, and in the second pla he quit after he had said it."

Pessimism.

Curious Friend-I wonder why th say poetry has feet? Impecunious Poet-Well, not

\$74@75; rolled oats, \$69.

a woman of fashion to have a French alfalfa, \$24@24.50; valley grain hay, \$24@26; clover, \$21; straw, \$9@10.

Butter-Cubes, extra, 411c; prime firsts, 431c; prints, extras, 48c; car- counted upon. The Austrians are detons, 1c extra, butter fat, No. 1, 47c clared to be rushing in reserves from per pound.

Eggs - Oregon ranch, current reselects, 42c per dozen.

Poultry — Hens, 23@25c; broilers, 28@30c; roosters, \$16@17c; ducks, geese and turkeys, nominal.

Bacon - Were Veal-Fancy, 16c per pound. you ever tried by Pork-Fancy, 23c per pound.

Fruits - Strawberries, \$2.50@3.50 Egbert - Oh, per crate; cherries, 5@12c per pound; 150.000 men. yes; I served on cantaluopes, \$1.50 per crate; gooseone once, and berries, 5@6c per pound; apricots, none of the stub- \$2.35@2.50; watermelons, 4@41c per born men would pound.

Vegetables-Tomatoes, \$2.25@2.50 per crate; cabbage, 21@31c pound; been made, and in addition to heavy lettuce, \$2.50@3 per crate; cucumbers, casualties inflicted on the enemy a \$1.25@2 per dozen; garlic, 7c; celery, large number of Austrians have been \$3 per crate; peppers, 25@35c per made prisoner and 16 machine guns pound; rhubarb, 4c per pound; aspara- have been captured, according to "my wife seems to add a few more gus, \$2.50 per crate; spinach, 5@6c per Rome. The Austrian war office, howpound; peas, 10@12ic per pound; ever, asserts that all attacks in this beans, 15c per pound.

Sack Vegetables - Carrots, \$2 per sack; turnips, \$1.85; parsnips, \$1.25; beets. \$2.25.

Potatoes - Oregon Burbanks, \$1@ 1.50 per hundred.

Onions - Yellow, \$1.75 per crate;

Cattle-	June	20,	191	8.
Prime steers	\$1	2.00	@1	3.
Medium to good steer	8	9.00	a1	0.
Fair to medium steers		8.00	a	9.
Common to fair steers		5.00	a	8.
Choice cows and heife	rs.	8.50)@	9.
Com. to good cows and	hf	6.00	00	7.
Canners		3.00	0@	4.
Bulls		6.00)@	8.
Calves		8.50	0@1	11.
Stockers and feeders.		7.00	0@	9.
Hogs-				
Prime mixed	\$1	6.60	@1	6.
Medium mixed	1	6.55	6@1	6.
Rough heavies	1	5.60	@1	5.
Pigs]	15.50	<u>@1</u>	5.
			1	6.
Prime spring lambs	\$1	4.00	a1	4.
Heavy lambs	1	13.50	0@1	4.
Yearlings		7.50)@	8.
		7.00)@	7.
Ewes		5.00	0@	7.
	Prime steers Good to choice steers. Medium to good steer Fair to medium steers Common to fair steers Choice cows and heife Com. to good cows and Canners Bulls Calves Stockers and feeders. Hogs— Prime mixed Medium mixed Rough heavies Pigs Bulk Sheep— Prime spring lambs Heavy lambs Yearlings Wethers	Prime steers \$1 Good to choice steers 1 Medium to good steers 1 Fair to medium steers 1 Common to fair steers 1 Choice cows and heifers 1 Com. to good cows and hf 1 Canners 1 Bulls 1 Calves 1 Stockers and feeders 1 Medium mixed 1 Rough heavies 1 Pigs 1 Bulk 1 Sheep 1 Prime spring lambs 3 Heavy lambs 3	Prime steers	Prime steers

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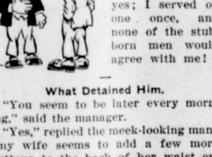
Austrians Tired of War, Strike.

London .- A strike, which, starting in Vienna, is said to be becoming general in Austria, registers the revolt of the people against war. And the factor that has tended to make war uncrystal, \$2@2.25; red, \$1.75 per sack. popular, the food shortage, shows no tendency to improve.

Strikers in the various factories at Vienna on Saturday formulated a de-.00 mand that the Austrian government show itself for a general peace and 00 invite the governments of enemy coun-.00 tries to enter into peace negotiations, 00 says a dispatch from The Hague to the Times. Representatives of the workers submitted the plan to Baron Burian, the Austro-Hungarian foreign .00 minister.

Texas Now Arid Waste.

Austin, Texas. - Texas became a 'bone dry" state at midnight Tuesday 75 when approximately 750 saloons closed under a statewide prohibition act. Eighteen hundred saloons had previously been closed by legislative act re-establishing a 10-mile "dry" zone around military camps and shipbuild-50 ing plants. Under the 10-mile law, 00 which became effective last April 15, 50 the sale of intoxicants ceased in the 00 principal cities.



in a green man. bare hands." "I see. Everything sanitary."

"You seem to be later every morn-