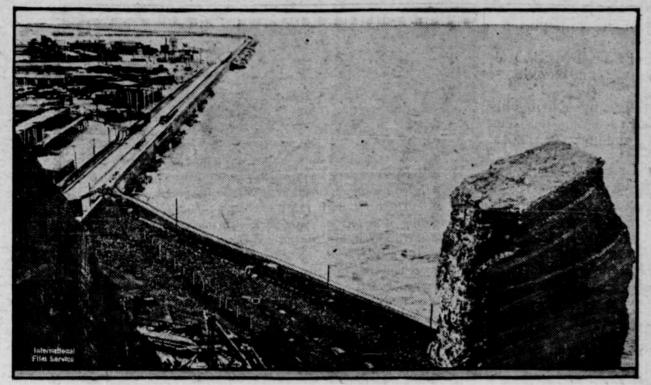
SOON THIS MUST BE MADE A HARMLESS ISLAND



This is the first photograph of Helgoland, the great naval base of the Germans in the North sea, made since the war closed. According to the treaty German must demolish the Island's fortifications,

Plan to Salvage Sunken Cargoes

American Ingenuity Makes Practicable Reclamation of Invaluable Supplies.

WILL BE GREAT INDUSTRY

One of Greatest Coal Fields in World Lies Off Atlantic Coast-To Be Brought Up by Submarine Salvaging.

Boston.-One of the greatest coal fields in the world lies off the Atlantic coast from Norfolk, Va., to Boston. It is made up of cargoes of sunken ships which lie on the floor of the ocean, and soon will be brought to the surface by means of a great after-war industry, known as the submarine salvaging of sunken cargoes, which will be the means of reclaiming millions of tons of coal, scrap iron and other raw products long since abandoned as lost.

The United States is taking the lead of all nations in fostering this great industry which grew out of the war, when the efficiency of the submarine as a monster of frightfulness was demonstrated. Peace will allow the submarine to come into its own as a great reclamation agency.

coal sells at the market price of \$10 with a one-horse shay.

By means of the salvaging submarine it is possible to cover 20 square miles of ocean bottom a day in searching for sunken hulks. Once a wreck is located it will be a simple matter, now that the salvaging submarine is as perfect as the torpedoing submarine, to reclaim 300 tons an hour, and to locate half a dozen ships in as many hours.

Coal All Along Coast.

Along the sound from Bridgeport to Norfolk, Conn., 40,000 tons of coal were sunk last year alone. Similar coal wealth awaits a finder all along the coast, for, according to marine rulings, "findings is keepings," and the finder of the sunken cargo is the owner.

The reclaiming of wealth given up for lost when the boat which carried it sank is to be one of the most fertile fields of production of the reconstruction period. The perfection of the salvaging submarine makes possible and practical an enterprise that was beyond the scope of the most daring and doughty divers who sought to find sunken cargoes.

This is illustrated by a comparison with the mechanical work of the sal-

American Soldier Dead Will Be Buried in U. S.

Three-fourths of the American dead in France will find their final resting place in American soil." Answering an inquiry from Senator Chamberlin as to the wishes of relatives, General Marsh, chief of staff, said it was estimated that replies from relatives thus far received showed not more than 25 per cent who expressed a preference that the soldier's body remain permanent-

ly in France. With more than 4,000,000 soldier dead of allied and enemy countries buried in French soil. General March said, that nation was desirous of proceeding slowly with the task of exhuming those that are to go to their home lands. No date has yet been set for beginning the return of American dead.

Hooper held the record for immersion when he went down 180 feet in 1884 to reclaim the gold which sank in the Alphonso XII off the Canary islands.

Hooper made 13 different trips to the wreck in as many months. arduous and fatiguing was the descent that he was able to remain only 15 minutes each time before he signaled for the return journey. It took him four hours to make the descent, because of the necessity of accustoming his body by degrees to the increased pressure. The last time he went down he became paralyzed and was obliged to come up leaving \$150,000 in gold behind him-which still awaits a finder. In all he brought up \$350,000.

Today the salvaging submarine goes down at the rate of a foot a second, and the diver can remain a month in it if he desires, working an eight-hour day or however long his day may be. The materials salvaged are pumped to the surface by means of a 15-inch pipe, which will bring up 300 tons of coal or scrap iron in an hour, and place it on the deck of a cargo carrying steamer nearby. An entire cargo is thus salvaged in a few hours, and the work of locating and salvaging another wreck immediately undertaken.

In the matter of economy of time cargoes, the salvaging submarine com-

English Court Fixes "Barefoot Kick" Rate

London.-The legal rate for kicking a gardener in "the place ordained by nature" has been established by an English court at 2 shillings and 6 pence, which is the amount Commander Forsyth Forest was assessed on the charge of assault brought by his

The evidence showed Forest was in pajamas and tarefooted at the time of the assault.

Question: How much would the damage have been had the assailant's foot been shod?

Coal is decidedly improved by a repose of many years under sea, for marine salts enter its porous exterior and increase its power of combustion for both domestic and industrial

Pig iron has been salvaged after a stay of 100 years. in the farthest depths. Rails are brought up in good condition also. Copper bars, brass country roads. and all sorts of machinery are recovevery metal has a different life, the over the materials and preserves each other in a cargo, the copper w'll is the electrolytic action.

and money, the saving of the strength way is sorted out, some going to roll- use for some time. If the location of reat reclamation agency.

of the divers and in locating with ing mills, others to brass foundries and all filling the world's constantly changed if possible. In relocation of the divers and attractive, but it pays changed if possible. In relocating roads in the long run; and if you as a garsing demand for iron. In the avoid timated by salvaging experts, at least pares with the old-time method of English channel reposes a vast quan-25 per cent is reclaimable at a cost of picking up materials from the ocean's tity of iron and steel, owing to the for on this depends the weight of the about 25 cents per ton. Reclaimed bed as does a high power motorcar many ships which were sunk during load which can be hauled economically. the war.

Prices May Rise Declares Board

Also Greater Shortage May Take Place.

INVESTING PUBLIC MUST AID

Shortage of Many Essential Materials and Commodities in World at Large-Foreign Recovery May Be Rapid.

Washington.-In warning that still higher prices and a greater shortage of supply may be expected in the United States if foreign purchases be perof the work of the old-time divers mitted to continue on the basis of the last few years, the federal reserve vaging submarine. A diver named board in its July bulletin declares that the war period in exportation has come to an end and that it is the duty of the investing public to finance shipments needed by Europe.

Shortage in World. "There is a shortage of many essen tial materials and commodities in the world at large," the board says, "increased credit demand for goods for export necessarily implies relatively decreased supply of goods for domestic use. Demand and supply are automatically equalized by changes in price, but such changes are in the circumstances here under consideration necessarily upward. If a large export financing process is conducted by banks out of credit the result is to place the fluid credit of the country at the disposal of foreigners in purchasing and settling for domestic products which they obtain from American pro-

Such an addition to credits not based on genuine savings, the board points robbed of a full outfit of clothing, a out, would mean inflation, implying an suitcase, \$70 and a watch. He said increased tendency toward the bidding he took three drinks with two strangshould be found in the investment mar- new clothing.

Federal Reserve Bulletin Says ket, that is in the savings of the people and not at the banks.

"The amount of export trade securiily be limited to a minimum figure," the board asserts.

Requirements of export financing probably have been overestimated, the board says, and adds that some part of the export demand would disappear probably when actual commercial security would be required for protection of shipments.

Recovery May Be Rapid.

"It is quite probable," the board remarks, "that, as European countries succeed in re-establishing themselves, their recovery toward a self-supporting basis will be much more rapid than has been expected. Far more time is required for the expenditure of great sums in the purchase of goods than is generally comprehended. Expenditures to be made for peace purposes or for reconstruction will require care and patience if they are to yield returns under competitive business conditions. They cannot be overhastily made, and this will in itself ease the urgency of the pressure for export financing. When all these elements have been eliminated there will remain a very great residue of urgent industrial requirements abroad, and these it is ecoomically and otherwise sound and desirable to finance as promptly and effectively as possible that foreign demands for our goods may be maintained, our markets conserved and our general position in world trade pro federal aid and state funds.

Leave Only His Glasses,

St. Louis, Mo .- Wearing only a pair of spectacles when he was arrested Congressional Report Places Annual early one morning here, Charles Martindale, forty-nine, of Benton Harbor, Mich., told the police he had been

·ROAD ·

BENEFITS OF COUNTRY ROADS

among Other Things They Cheapen Cost of Transportation of Farm Products to Market.

Good roads promote self-respect in community. They make possible social intercourse. They bring the benefits of churches and schools within the reach of all. They help to keep the boys on the farm. They cheapen the cost of transportation of farm products to the markets and thus add to the farm profits. They add to the value of farm lands much more than they cost. They mark the degree of civilization of the rural community. This, in short, is the value of good roads as seen by the extension service of the University of Missouri College of Agriculture.

The building of good roads is of the greatest importance to a community. What kind of a road should be built? Of what should it be constructed?



Good Roads Like This Bring Farmer Nearer to City Markets.

What are the things to be considered in locating the road? What "grade" should be maintained? How should the road be drained? What are the laws governing highway construction? There are a few questions answered in extension circular 68 dealing with

Matters of prime consideration in ered in good condition, for although locating a road are: Easy grades, good drainage, exposure to sunshine, sediment in the water forms a coating elimination of culverts and bridges by avoiding unnecessary creek crossings, them. If copper and steel are near directness and the number of farms to be served for a given length of road. eat the steel and destroy it, so strong Whenever possible to avoid it, a good location should not be rejected merely The scrap iron reclaimed in this because a certain roadway has been in

The grade of the road is important By grade is meant the rise or fall in feet for each 100 feet in horizontal length of road, usually expressed in percentage. A 5 per cent grade means that the road rises or falls 5 feet each 100 feet along its center line. It has been calculated that on a smooth country road the load that one horse could pull on a level would require two on a 5 per cent grade, three on a 10 per cent grade and four on a 15 per cent grade. Engineers usually figure a 6 per cent grade as a maximum.

Road work in Missouri has not been as well managed as other public work. tles to be held by banks must necessar- Projects have been too narrowly limited to localities, resulting in fragmentary effort. Skilled locating and supervision of construction have been generally lacking. The remedies are: First, a wider co-operation and the adoption of broad schemes of improvement, preferably with units no smaller than counties. Second, the absolute elimination of political considerations in the spending of money. Third, securing good engineering advice in the preparation of plans and requiring careful engineering supervision of con-

ENGLAND SPENDS 50 MILLION

Grants to That Amount Will Be Dis tributed for Reconstruction of Roads and Bridges.

Grants amounting to \$50,000,000 will be distributed by the British road board for the reconstruction of roads and bridges in England in 1919. Demobilized army units will be used to do the labor. Local highway authorities will be required to match this appropriation by at least as large a program of road work as they carried out in the year before the war. Area taken into consideration, England's program is thus far in excess of that of the United States, including both

POOR ROADS ARE EXPENSIVE

Loss at \$504,000,000 for Transportation Alone.

The congressional report of 1914 placed the economic loss of the United States through poor roads at an anup of prices. In order to avoid the re- ers and could remember nothing after nual figure of \$504,000,000 for transcurrence of such a menace the board that. Martindale was given lodging portation costs alone, The heavy recommends that the basis for exports in the holdover here and provided with increase in tonnage since that time probably makes the loss today close to \$1,000,000,000.

MAKING SUCCESS IN HOME GARDEN

Much Depends Upon Interest of Gardener Being Maintained Throughout Season.

WAGE FIGHT AGAINST PESTS

Man Must Make Continuous Fight From Start, Never Shirking Duty and Keeping Everlastingly on Job-Easy to Kill Weeds.

(Prepared by the United States Depart ment of Agriculture.)

The ultimate success of a home garden depends largely upon the inter- cost. est of the gardener being maintained throughout the season. Many persons have gotten the idea that when the or three times their work has ended, and as a result the garden soon goes to weeds or is destroyed by insects and diseases. The successful gardener, declare the specialists of the United States Department of Agriculture, is the one who wages a continuous fight against the enemies of the garden from the very start, never shirking his duty and being everlastingly on the

A crop of weeds can be destroyed in a few moments by means of a steel rake or a hoe, if it is used when the weeds are just coming through the ground. If allowed to remain, the weeds become firmly rooted and a thorough renovation of the garden is necessary to rid it of them.

Seem Innocent, but They're Not. A few old-fashioned hardshell potato bugs may not appear to do any great harm, but the crop of soft-shelled beetles they produce will eat the leaves from the potato vines almost before you know they are present. A few spores of some mildew or other disease may not do any great amount of damage, but if the weather is favorable for the spread of the disease, it will soon cause the loss of the entire

The old adage of "A stitch in time saves nine" applies with double force to the care of the garden. Keep up Interest in the garden and make successive plantings of various crops, so that a continuous supply of vegetables may be provided for the table. There is nothing gained by having the land lie idle, and it is easier to keep it clean If there is a paying crop upon it.

"Seedy" Gardens Show Neglect. Too often gardens with a "seedy' appearance are seen in the middle of the summer. The brush on which the peas were grown or the wire trellis on which they were trained is left with the remains of the crop upon it, and general unsightliness rules the entire plot. It is a little more trouble to keep

dener want to maintain a reputation



Keep the Garden Growing Through the Summer.

for a good garden, the necessary attention will have to be given to its neatness and general appearance,

In sections where the weather becomes extremely hot in summer and It is not possible to keep garden crops growing, the land should be cleaned, replowed and kept stirred from time to time until conditions are suitable for the planting of fall vegetables. Under ordinary conditions it is best to have some crop growing on the soil, and if the period between the early spring vegetables and the fall vegetables is sufficient, a crop of cowpens should be grown upon the garden land. This will shade the soil and prevent the sun burning the organic matter out of it, and at the same time will actually add fertility to the soil.

KEEPING HARNESS IN REPAIR

Tools and Facilities Are Comparatively Inexpensive and Simple-Special Devices Needed.

(Prepared by the United States Depart-ment of Agriculture.) The tools and facilities required for eeping harness in repair are comparatively simple and inexpensive. A considerable portion of the repair work on harness can be performed by the aid of tools required for other purposes, but there are a few special devices that

INCREASE IN DAIRY PROFITS

Dairy Bull Associations Have Done Good Work and Show Big Increase in Incomes.

(Prepared by the United States Depart-ment of Agriculture.) Scrub dairy bulls are doomed. The ull association sounds their death knell, but it replaces them with bulls of better breeding. In June, 1916, there were 44 dairy bull associations and several have been organized since then. They are doing excellent work. Without exception they show an increased income without an increased

The New Windsor (Maryland) Bull association has furnished production records of dams and daughters for garden is planted and cultivated two three successive years. Each year the daughters have produced more milk and butter fat than their dams, which



A Good Holstein Buil.

demonstrates that the bulls were well selected. Of the 21 daughters of association bulls for which the 1918 records are available, 16 excelled their dams in butter-fat production, and 15 excelled their dams in production of both milk and butter fat,

The average yearly production of the dams was 5,560 pounds of milk and 219 pounds of butter fat. The average yearly production of the 21 daughters was 6,523 pounds of milk and 263 pounds of butter fat. In milk production the daughters excelled their dams by 963 pounds or 17 per cent, and in butter-fat production by 44 pounds, or 20 per cent. These are not as large gains as some other bull associations have given, but are well

worth while. Because of co-operative ownership the bulls cost the farmers no more than would have been paid for scrubs; It costs no more to feed the daughters than to feed the dams, and it costs much less to feed the bulls because there were not so many of them. The increased production, therefore, was all net profit.

GROWS GARDEN TO BUY CALF

Washington Boy Raises Prize-Winning Vegetables and Buys Jersey Heifer With Money.

(Prepared by the United States Depart-ment of Agriculture.)

Alfred Olson of Klickitat county, Wash., is a member of one of the calf clubs organized by the United States department of agriculture and the state college of Washington. With his purebred Jersey heifer calf, Arca's Babe, he won the state championship prize last year: In 1917 Alfred became interested in the calf club work, but a purebred calf costs money, and he did not have funds to buy that regulsite for membership. To enroll in a garden club as the first step toward entering the calf club may seem unusual, but that was what the Klickitat county boy did, and he reached the desired goal. The weeds in his club garden kept him busy all summer, but he gave It such faithful care that his vegetables were prize winners. He exhibited a collection of them at the state fair and took \$60 worth of prizes.

Meanwhile he had been writing to Jersey breeders for prices and descriptions of calves. He decided on Jerseys because that was the breed his father had. With \$40 of his garden prize money he bought a month-old Jersey helfer calf in October. He kept her in the barn all winter, but in the spring she was turned out on the range. When brought in in September to be made ready for exhibition purposes she was larger at eleven months than his father's grade calves of fifteen months. At the state fair Alfred's Jersey was awarded the state championship prize in the boys' and girls' club class and was valued at

SMALL-TOP MILK PAIL BEST

Prevents Entrance of Dust or Dirt and Greatly Reduces Number of Bacteria in Milk.

In modern dairies where clean milk is produced the small-top milk pail is a necessity, as it presents only a small opening into which dust and dirt may fall from the air or from the cow's body. It has been found by experience that the use of a pall of this kind greatly reduces the number of bacteria in milk from dairies where it is used. Many types of milk palls are for sale, but any tinner by the addition of a hood can convert an ordinary pall into a small-top pall.