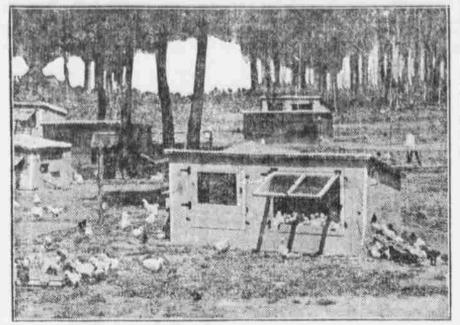
### SETTING UP AND OPERATING INCUBATOR



INCUBATOR CHICKS RUNNING OUT IN SPRING.

February, March and April are the pest months to hatch chickens, desending somewhat upon the individual, is well as the climatic conditions. Set up the incubator according to the nunufacturer's directions, and see that the machine is perfectly level. if a spirit level is not available, a ong shallow pan of water set on top of the incubator can be used as a level to assist in setting up the machine. Be sure that all parts of the incubator are n their proper positions and that the egulator works freely. Do not plane off the door of the incubator, if it sticks, until the machine has been seated up and thoroughly dried. Run the machine at about 102 degrees Fahrenheit for a day before putting in the eggs. It takes several hours for the machine to come back to its correct temperature after the eggs are arst put in; therefore the regulator should not be touched during that time. See to the regulation of the temperature of the incubator before spening the door of the machine to atend to the eggs. Look to the care of the incubator carefully and regulary, but do not change the regulator any more than is absolutely neces-

When the bulb of the thermometer rests directly on the eggs the temperature is usually held at 101% to 102 degrees Fahrenheit the first week, 102 to 103 degrees Fahrenhelt the secand week, and 103 degrees Fahrenneit the third week; while a hanging thermometer is operated at about 102 to 1021/2 degrees Fahrenhelt the first two weeks and 103 degrees Fahrenheit the last week. At hatching time the machine will frequently run up to 104 or 105 degrees Fahrenheit without any injury to the chickens. If the temperature has been right up to the hatching time, it is usually better not to change the regulator at that time, provided the temperature does not run above 105 degrees Fahrenhelt. While eggs will hatch just as well if the temperature is run slightly higher than noted above, throughout the hatch, the chickens are apt to be weak and hard to raise. In a good hatch the eggs will start to pip on the evening of the nineteenth day, and most of the chickens will be out of the shell on the morning of the twenty-first day. If the hatch is much earlier or later than this it indicates that the conditions during incubation have not been right. A high temperature may hatch eggs too quickly and produce weak chickens, while a continuous low temperature throughout the hatch will delay it for several hours.

Use good oll. Clean and fill the tamp once daily, trimming the wick by scraping the charred portion off with a knife or square-edged nall, or by cutting the wick with scissors.

Care of Machine at Hatching Time.

After the eggs begin to hatch, leave the machine alone until the batch is well over. Do not open the door to see how the eggs are hatching, as it allows essential at this time. Keep the incu- hatched. bator dark at hatching time by covering the glass in the door with a cloth or burlap sack, so that the chicks will not be attracted to the front of the machine by the light and become restless. When the chicks are all hatched, remove the egg tray and open the ventilators, according to the manufacturer's directions, and keep them in the incubator from 24 to 36 hours after soon as the hatch is over and the used. chicks are thoroughly dry. Chicks opening the incubator door, any which | this is used, have pipped may be helped out by back on the egg tray.

Turning and Cooling the Eggs. Eggs should be turned and cooled according to the directions furnished with the incubator. The eggs are usually turned for the first time at the and twice daily through the eighteenth and nineteenth day, or until the

(Prepared by the United States Depart- the directions state that it should be ment of Agriculture.) left open. The length of time to cool eggs depends upon the temperature of the incubator room. A good general rule is to leave the eggs out of the incubator until they feel slightly cool to the hand, face, or eyelid. Cool once daily after the seventh and up to the nineteenth day. Place the trays of eggs on the top of the machine or on a table in such a position that they are not in a draft, and so that the tray does not project over the edge of its support, thereby allowing part of the eggs to cool much quicker than the rest. Moisture is used extensively in hatching in the South, in high sititudes, and in places where the incubator is run in a dry room. Many methods are used to supply moisture in incubators, such as sprinkling the eggs with warm water at about 100 degrees Fahrenheit, or placing a pan of water, a receptacle containing moist sand, or a wet sponge below the egg tray. Another common method of supplying moisture is to sprinkle or soak the floor of the incubator or to place a pail of water under the lamp.

The eggs are tested with the large end up, so that the size of the air cell may be seen as well as the condition of the embryo. The testing should take place in a dark room. The infertile egg when held before the small hole with the lamp lighted inside the box will look perfectly clear, the same as a fresh one, while a fertile egg will show a dark spot, known as the embryo, with a mass of little blood veins extending in all directions, if the embryo is living; if dead, and the egg has been incubated for at least 46 hours, the blood settles away from the embryo toward the edges of the yolk, forming in some cases an irregular circle of blood, known as a blood ring. Eggs vary in this respect, some showing only a streak of blood. All infertile eggs should be removed at the first test. The eggs containing strong. living embryos are dark and well filled up to the fourteenth day, and show a clear, sharp, distinct line of demarcation between the air cell and the growing embryo, while dead germs show only partial development, and lack this clear, distinct outline.

Follow Directions. Follow the manufacturers' direcions in setting up and opening an neubator.

See that the incubator is running stendily at the desired temperature before filling with eggs. Do not add fresh eggs to a tray containing eggs which are undergoing incubation,

Turn the eggs twice daily after the econd and until the nineteenth day. Cool the eggs once daily, according to the weather, from the seventh to the nineteenth day.

Turn the eggs before caring for the lamps.

Attend to the machine carefully at egular hours. Keep the lamp and wick clean.

Test the eggs on the seventh and fourteenth days.

Do not open the machine after the

the moisture to escape, which is very eighteenth day until the chickens are

#### RATION FOR EGG PRODUCTION

Good Combination Made of Grains and Ground Feed-Supplement With Milk or Beef Scrap.

A good ration for egg production can be made with a combination of equal the hatch is over before removing parts by weight of wheat and corn, them to the brooders. If they are to or in the winter time twice as much be shipped a long distance away, so corn as wheat may be used. For that they will be on the road two or ground feed, a mixture of equal parts three days, it is better to ship them as of bran, shorts, and cornmeal may be

Efficient egg production requires alwhich plp, but are unable to get out so that this ration be supplemented of the shell by their own efforts, rare- with either sour milk-all that the ly amount to much if helped out, al- birds will drink-or in case sour milk though, if desired, when most of the is not available, commercial beef eggs are hatched and the chicks dried scrap. One-fourth of the ground feed off so that they will not be injured by should consist of beef scrap in case

#### cracking the shell and placing them FOWLS FOR BREEDING FLOCK

Among Necessary Characteristics Are Short Heads, Stubby Beak, Broad Back and Strong Legs.

Select birds with a short head, stuband of the second day of incubation by beak, prominent eyes, long broad back, strong legs, set well apart. smooth and glossy plumage and a fiery chicks commence to plp. After turn- red and well-developed comb. The ing the eggs, reverse the egg trays male bird that proves the best fighter end for end, and from one side of the and can crow the loudest and longest, machine to the other in two-tray incu- if he possesses the other necessary bators. Keep the incubator door breed characteristics, may be placed at closed while turning the eggs, unless the head of the breeding flock,

# DY MARY GRAHAM BONNER

SLUSH AND A DREAM.

"It was pouring," said Daddy, "and

"There is nothing so nice,' said Peter Gnome, 'as a nice slushy day. We can all put on our high rubber boots and have a good old walk."

the Gnomes were delighted.

"'Fine,' shouted the rest of the Gnomes. 'Let's go a-calling on Mr. Giant.'

"'All right,' said Peter Gnome. They all put on their high rubber boots and off they started. The rain kept pouring down and the snow was melting

"'I hope,' said one of the Gnomes that all the Snow won't go,"

"'If it does,' whispered a little Snow Flake, just before it was melted by some of the Raindrops, 'our old Snow King will see to it that we come again. Winter has only just begun really, and we shall have lots and lots of good times yet.

" 'That's good,' said the little Gnome. 'I love the Snow.'

"'We all do,' said Peter Gnome, 'but today we are going to enjoy the slush.' "They started off on their walk to Mr. Giant's Cave. They splashed through the melting snow-drifts and had a very jolly walk.

"Soon they arrived at Mr. Glant's Cave. They knocked three times, and deep voice said, 'Come in! Enter!' "In walked all the Gnomes, and how Mr. Giant did laugh when he saw their high rubber boots.

"'Well, you're not afraid of a bad day,' said Mr. Giant.

"'It's not such a bad day,' said Peter Gnome. 'In fact, it's quite a good day. I don't consider a day naughty that gives us as much fun as this one

"'I never heard before of a day being called naughty,' said Mr. Giant.

"'Well,' said Peter Gnome, 'you said it was a bad day, and a bad day means a naughty day, doesn't it?

"'Perhaps,' agreed Mr. Glant. 'But it's not usually called naughty. That's all.

"'We're never usual,' said Peter

" 'True, true,' said Mr. Giant. "'Will you come and take a walk with us? asked Peter Gnome,

"'Delighted to, I'm sure,' said Mr. Giant. 'Let me get my boots.' "From a high part of the Cave he

reached for his tall boots. "They only made him look more enormous than ever and the Gnomes looked very tiny as they walked about him while he was putting on his great

"'Where are we going?' asked Mr. Glant.

"We're going,' said Peter Gnome, to call on a little Boy who has been ill. He hasn't been able to play in the Snow all this winter. And when he sees a day like this he will be so discouraged. He will feel that he is never going to get out to play. But we shall wait until he is in bed and asleep and then we'll give him a play-time



Off They Went.

with us. A real dream of slush and fun. He'll think he is falling down and getting soaked, and that it doesn't hurt him at all. You must stand outside the window-for you can reach from the ground floor up to his window, and you'll whisper suggestions for

"Then I must put on my thinking cap that Witty Witch gave me,' said Mr. Giant. And he reached in another part of the Cave for the thinking cap which he put on his head, and which made him look very, very tall.

"'I'm ready,' said Mr. Giant. Off they went. By the time they reached the House they were going to visit it was quite dark.

"Such wonderful play dreams as they gave the little sick Boy and the next morning when he woke up he was no longer discouraged. He knew he would get well soon and be able to play in the stush and have a good old time just as every Boy could have."

The Bo: Knew.

"If I cut a beefsteak in two," asked the teacher, "and then cut the balves in two, what do I get?"

"Quarters," answered the boy. "Good. And then again?"

"Eighths."

"Correct. Again?" "Sixteenths."

"Exactly. And what then?" "Thirty-seconds."

"And once more?" "Hamburg," cried the boy impatiently.

Best Business Boys.

Business men are looking for boys sho work well when the boss is not looking.

#### WASHINGTON NAVY YARD GATES CLOSED TO VISITORS



The gutes of the Washington mavy yard, where all the guns for the United States mavy are assembled, are closed and guarded for the first time in the history of the yard. Work is being rushed to the limit. At the right of the illustration is Rear Admiral J. H. Glennon, commandant of the yard and superintendent of the gun factory.

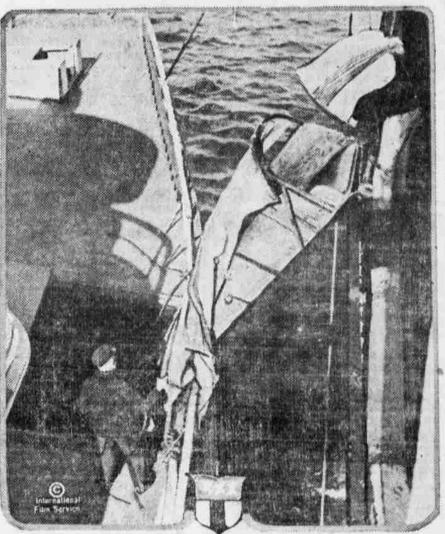
#### SITE FOR NEW NAVAL BASE ON THE PACIFIC



this is Hunters Point, near San Francisco, selected as the site of a new base for the United States navy.

\_\_\_\_\_

#### HURRYING THE OCEAN MAILS ASHORE



Haste is the watchword of the United States post office department, and nowhere is this more clearly emphasized than on the arrival of a mail to explode. He tost both his hands steamer from Europe. This photograph shows how mail sacks are rushed and his left eye, and his clothes were directly from a liner to a mailboat in New York harbor.

#### A HERO OF THE DARDANELLES



Mark Alexander of Roanoke, Va., an American, who was within a short stride of death during a battle at the Dardanelles. He was fighting in a trench with six other men, and was just ready to hurl a trench-bomb which he had fixed so as to be ready for explosion when a bullet from the Turks hit his hand, causing the bomb stripped from his body by the explosion. He had the presence of mind to bend over and stop the concussion of the shell, thus preventing his comrades from being mortally wounded. He is thirty years old and left for England in 1915. He was in a hospital 11 months recovering from his wounds, Alexander has been decorated with a medal of honor by King George and also been recommended for the Victorian cross.

#### Offended.

"I can't understand why Miss Langsyne is angry with me. She told me vesterday that it was her twenty-fifth birthday, and when I wished her many happy returns of the day she said I was a horrid old thing, and she hasn't poken to me since."

"I don't blame her. You see, yesterday was about the fifteenth return of her twenty-fifth birthday, and she's getting a bit sensitive about

#### Helpful Person.

"Do you believe that truth crushed to earth will rise again?" asked the moralist.

"Oh, yes," answered the cynical man. "There are always a number of people in every community who want it's going to hurt somebody."

## VICTIMS OF THE U-BOAT WARFARE

A remurkable news picture that tells its own story. bont slowly sinking into the water, and men dotting the sea striving their atmost to keep affoat. These struggling men are Britishers who, when their transport, the Ivernia, was sunk by a torpedo, took to the boats and dropped into the seething waters of the Mediterranean. The heavy seas running to get at the truth because they think swamped the boat.