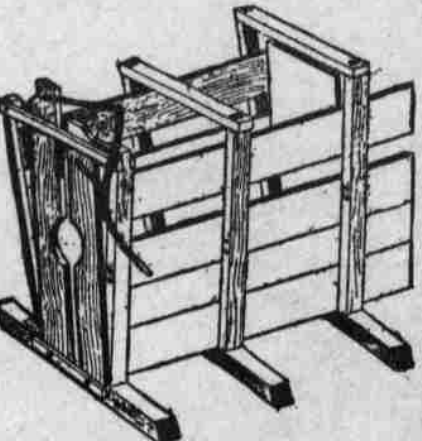




**Back for Dehorning.**  
The illustration shows a rack to be used either for dehorning cattle or ringing hogs. For sills use three pieces 4 feet long and 4 inches by 4 inches mortised for bottom of posts 8 inches each side of center to allow the sides and bottom boards to drop into place. Four posts 4 inches by 4 inches and 5 feet 4 inches long and two posts 4 inches by 4 inches, and 5 feet 8 inches long are tenoned to the sills. Three cap pieces 2 inches by 4 inches and 4 feet 2 inches long are mortised at the ends to receive tops of posts. The caps are of oak. One oak piece in front of the cap, which holds the stanchion, is 2 inches by 2 inches, and 4 feet 2 inches long. The lower oak piece in front of the stanchion is 2 inches by 4 inches and 2 feet long. The lumber is 2 inches thick and 7 feet long for sides. One board 2 inches by 17 inches and 7 feet



BACK FOR DEHORNING.

long is used for the bottom. For stanchions in front use one board 2 inches by 10 inches, 5 feet 6 inches long; one board 2 inches by 10 inches, 5 feet 2 inches long. For back gate use two pieces 2 inches by 12 inches, 4 feet 4 inches long, cut sloping to fit the frame. It is put on with hinges. The stanchions in front are bolted at the bottom between a 2 inches by 4 inch piece, and the sill, leaving a space up and down in front 5 inches wide. Two and a half feet from the bottom of the stanchion slope, cut a place for the animal's neck. The 2 inches by 2 inch oak piece is bolted to the side of the cap with blocks to allow the top of the stanchions to open and close and work with a lever. The lever, which can be made of wagon tire, is 5 feet 6 inches long. A 3/4-inch hole is punched in the top of the lever, a second hole 13 1/2 inches from top hole, and the third hole 11 inches from second hole. The upper hole is for attachment of two iron straps, one on each side, which are fastened to the left hand stanchion. From the lower hole two pieces of iron 14 inches long go to the right hand stanchion. When the stanchions are closed bore one or two half-inch holes in post back of lever, in which to use an iron pin to hold the stanchions in place.—Montreal Star.

**Water and Salt for Cows.**  
Eight gallons of water a day is the average quantity required for a cow, and the milk given is about 87 per cent water. In some pastures there is no water, the cows being supplied night and morning, which forces each cow to drink four gallons at a time in order to be supplied. As the cow does not know that she must drink four gallons, she may use less, and she will reduce her milk supply accordingly.

Extensive tests and investigations have been made by the experiment stations to determine the advisability of adding salt to the ration of dairy cows. As a result of these trials, it is recommended that dairy cows be given at least one ounce of salt per day. Exceptionally heavy milkers will require more than this. The uniform results obtained with all cows employed in these trials indicate that salt in addition to that obtained in their food is absolutely essential to the continued health of a dairy cow, while producing milk. It is evident, moreover, that the amount of salt which must be supplied directly will greatly vary in different localities, it being more at high elevations and at places remote from the sea.—Agricultural Epitomist.

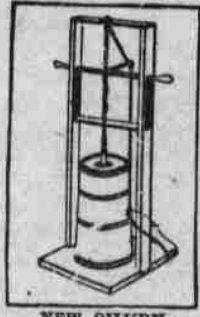
**A Kettle Support.**  
At butchering time and whenever water is to be heated it is a bother to set the kettle or to hang it with chains. A simple hoop with three or four legs welded on, saves the time and trouble. Any blacksmith will make it for a few cents if you furnish an old cart tire for hoops and legs. Order the legs the right length to hold the kettle just high enough. It is easily moved then from house to barn, or to a neighbor's.—Farm and Home.

**Kaffir Corn in Mexico.**  
Kaffir corn is being cultivated successfully in the State of Oaxaca, Mexico, and its cultivation is to be extended. This corn, which is a native of Egypt, requires only the moisture of the dew for its wants, and appeals to the farmer for planting during the dry season.

**Treatment of the Soil.**  
We have but little more definite knowledge of the soil and the principles involved in its treatment than we had sixty years ago, says the Scientific American. Fertility is not nitrogen, phosphorus, and potassium alone, though the potential value of any field, or State, or country, from the agricultural standpoint, is measured by these constituent elements in its soil; yet it has been demonstrated that soils which contain an abundance of these elements, and which are potentially capable of producing crops for centuries perhaps, are not capable of producing profitable crops without the addition of further amounts of these constituents. The chemical investigator is, therefore, compelled to take into consideration other facts than this. He must, if he would cover the whole field, know something of geology, of botany, of physics, of biology, of bacteriology, and of the other natural sciences, because chemistry alone is not capable of fully comprehending the problem; thus, the opportunity for specializing in any branch has been very great, and it is because of the broadness of the subject, and the opportunity, as already pointed out, and the necessity, also, for giving immediate help from the knowledge that we have that has prevented in a degree a broad study of the fundamentals essential for enabling genuine progress to be made.

**Alfalfa a Swine Tonic.**  
Raising 1,000 hogs a year without ever having any sign of cholera in the herd is the claim put forth by M. Barber of Bloomington, Neb. He makes a specialty of this industry and has 300 acres of alfalfa, where the hogs are raised. "My hogs are raised in the field from the time they are pigs till they are about 8 months old, when I put them on a feed of corn," said Mr Barber to a representative of the Kansas City Drovers' Telegram. "If fed in summer time I soak the corn. But the alfalfa is the most important feed they get, and is the one great thing that keeps them healthy all the year around. In all the years that I have been raising and handling hogs in this way, I never had a case of hog cholera on my farm. This is due to the alfalfa, which keeps the hogs healthy."

**Improved Butter Churn.**  
The old-fashioned hand butter churn, so long associated with fresh air and country life, seems destined to be overtaken by other up to date churns and which require less labor to operate. The old-fashioned churn was a clumsy affair, and not a little "elbow grease" was required to manipulate it. In the illustration is shown one of newer hand churns, which nevertheless contains most of the principles of the older churns. The only change is in the application of the power mechanism. In this machine the power is so placed that little effort is required to operate it. A foot pedal is added, and the hand power is entirely different from the old method. Instead of forcing the paddle up from the churn after every descent with the hands, springs are placed beneath the hand grips which do the forcing automatically. It would be possible to operate this churn and at the same time read a book or newspaper.



NEW CHURN.

**Young Farmers Going to Cities.**  
A recent news telegram from York, Pa., says: "With the return to the county commissioners to-day of the last registry assessor's book it was shown by the totals that the population of voters in the county has decreased in six months nearly 400. The shrinkage in the male population is attributed by the commissioners to the desertion of the farms by young men, most of whom have been lured to Philadelphia and other cities under the impression that they can speedily make fortunes. "In the borough of Red Lion sixty voters have gone to the city within six months. The decrease in population is greater than in the boroughs. The total registration in the boroughs and townships of the county last spring was 22,802. The present registration shows 388 less."

**Renovating Worn Soils.**  
Prof. W. J. Spillman, in bulletin No. 245 on the renovation of wornout soils, says: "To build up and maintain fertility in the soil, feed a large part of the crops, and return the manure to the land. If manure is not available, plow under crops grown for the purpose. Plow deep, but do not subsoil. Grow leguminous crops for the nitrogen they add to the soil. "Commercial fertilizers and lime may be important means of improving the soil but the fertilizer requirements of different soils and different crops in different seasons are so little understood that we are not yet in a position to make positive recommendations that are of general application."

**The Decline of the Peach.**  
The introduction of new varieties, budding, and the attacks of insects, as well as diseases formerly unknown, have curtailed the usefulness of the peach tree and confined it to certain localities. Budding or grafting the trees, whether apple, peach or pear, is now but a reproduction of the original variety, and may introduce all the imperfections as well as the advantages of the variety, to every portion of the country.

**THE WEEKLY HISTORIAN**



- 1569—First English lottery took place.
- 1610—Galileo discovered Jupiter's satellites.
- 1644—Archbishop Laud beheaded.
- 1806—Cape of Good Hope surrendered by the Dutch to the British... Vienna evacuated by the French.
- 1813—William Jones of Pennsylvania became Secretary of the Navy.
- 1815—Gen. Andrew Jackson defeated British at Battle of New Orleans.
- 1840—Penny Post introduced in England by Rowland Hill... Chartist rising at Sheffield, England.
- 1841—Samuel Scott, daring American diver, accidentally hanged himself on Waterloo bridge, London, while giving exhibition.
- 1842—Francois Coppee, French poet, born.
- 1844—Sir Hudson Lowe, governor of St. Helena during Napoleon's captivity, died.
- 1854—Astor library, New York, opened.
- 1861—Steamer Star of the West fired upon at Charleston... Jacob Thompson of Mississippi resigned as Secretary of the Interior... Phillip F. Thomas of Maryland resigned as Secretary of the Treasury.
- 1863—Metropolitan Underground Railway, in London, ceremoniously opened.
- 1866—Steamer London, from England to Australia, founded in Bay of Biscay; 220 lost.
- 1868—Chinese government appointed Burlingame its special envoy to all the treaty powers.
- 1871—Paris bombarded... Prince Frederick Charles gained victory over Chanzy at Le Mans.
- 1880—Upper suspension bridge at Niagara Falls destroyed by wind storm... Thirty-three persons killed and scores injured in whirlwind at Reading, Pa.
- 1893—Princess Marie of Edinburgh married to Crown Prince of Roumania.
- 1895—Royalist outbreak at Honolulu suppressed by Dole government... Great street railway strike in Brooklyn.
- 1897—Count Muraviev appointed Russian minister of foreign affairs—Anglo-American arbitration treaty signed at Washington... National monetary conference met at Indianapolis.
- 1890—Railroad wreck at West Dunellen, N. J.; seventeen lives lost.
- 1900—Chicago drainage canal opened.
- 1901—Twenty-six lives lost in orphan asylum fire at Rochester, N. Y.
- 1902—Seventeen lives lost in Park avenue tunnel wreck in New York City... Lewis Nixon chosen nominal leader of Tammany Hall.
- 1904—Chinese Emperor ratified commercial treaty with the United States.
- 1905—Five killed in railroad collision near Ripon, N. M.



**FOREIGN LANDS.**  
The upper house of the Austrian, or Dislethan, reichsrath has accepted without amendment the bill establishing universal suffrage, which previously had been passed by the House of Representatives. London papers reported that James Bryce had refused a peerage and would go to the United States as ambassador without changing his name, and thus be the first plain citizen to represent his country at Washington. Just as it came from the French Chamber of Deputies, the new church and state separation act was finally passed by the Senate, 190 to 100. This was directed against those churchmen who had refused to accept the original separation law of 1905, and all clergy who refused under orders from the Pope to give over possession of their residences and church properties to the state do so on penalty of losing pensions. While the priests have disregarded the law providing for religious associations, the laity have made the necessary declarations to protect the churches and other places of worship. It is presumed that the other ecclesiastical buildings will be rented to the bishops and priests at a nominal figure, just as the clergy who have said most without making a legal declaration to hold a public meeting have had only nominal fines imposed upon them. The French minister of finance has ordered the mints to substitute on all coin the words "liberty, equality and fraternity" for the old device "God protect France." Minister of Education Briand announced that the church buildings taken possession of by the state would be devoted to educational and museum purposes, the seminary of St. Sulpice at Paris becoming part of the Luxembourg museum. The expelled sisters of the Assumptionists order left Paris for Belgium, in the midst of a throng of sympathizers, who shouted: "Down with the Free Masons."

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11:55 a. m.	Walla Walla, Dayton, Pomeroy, Lewiston, Colfax, Pullman, Moscow, the Jeter d'Alene district, Spokane and all points north.	11:55 a. m.
12:30 p. m.	Walla Walla - Pendleton Mixed	
4:53 p. m.	Fair Mall for Pendleton, LaGrande, Baker City, and all points east via Huntington, Ore., also for Umatilla, Heppner, The Dalles, Portland, Astoria, Willamette Valley Points, California, Tacoma, Seattle, all Sound Ports.	4:53 p. m.
	Pendleton - Walla Walla Mixed	6:30 p. m.

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