BUILDING RAILROAD ALONG MEXICAN BORDER.

San Diego and Eastern railroad is constructing the last stretch of 80 miles of its road through the mountains in the extreme southern portion of California. It includes some of the most remarkable engineering feats ever attempted. The railroad parallels and in one place crosses the Mexican border through a tunnel. The road crosses the mountains at a 4,000-foot altitude and has 30 tunnels in the short distance of 18 miles.

Photograph shows one of the steam shovels working through decomposed granite.

of the world.

Chicago has at present the choice of

Baltimore and Ohio and two on the

distant points like Jacksonville or New

Europe Is Wiser.

ice offered between the important cities

seems niggardly in the extreme by

comparison. London, Manchester and

cial cities of Great Britain, all lie

within a radius of 200 miles and are

joyed by a score or more of the lesser

On the continent the contract is even

there were only two or three trains

which made the journey without

change, and that only one of those ear-

continental capitals the same condi-

STOP HABIT OF TRESPASSING

Natural Outcome of Guarding Tracks

and Bridges by Armed Forces

of United States.

The Railway Gazette predicts that a

side issue of war conditions will be #

decrease of the habit of trespassing on

railroad property. This will be a nat-

ural outcome of the guarding of tracks

and bridges by the armed forces of the

venting wilful interference with trans-

portation. There has always been great

will deter many from trespassing who

were oblivious to the risk of danger

NEW MASTERS FOR RAILWAYS

Ninety-Five Independent Unco-ordinat-

ed Legislative Bodies Represent

Government.

"American railroads serve 95 differ-

ent masters. These are the 95 inde-

pendent, unco-ordinated legislative and

regulating bodies, representing the

says a circular from the Guaranty

Trust company of New York. And just

think-only a few years ago these

Lessen Smoke and Gas Evil.

be closed when a tunnel is entered,

steam being exhausted beneath the en-

Price of Safety.

the price of safety, especially with

vehicles. And this vigilance must be

used on both sides.

Eternal vigilance, especially in the

To lessen the smoke and gas in

from trains,

tions prevailed.

In Europe in normal times the serv-

dozen trains every 24 hours.

No Country Has Such Wasteful times as many trains as are similar Passenger Service as Found in America.

#### **NUMBER OF TRAINS REDUCED**

Present Condition is Relic of Old him from New York to Philadelphia Days of Unrestricted Competition -Railroad President Was Absolute Monarch.

American love of luxury has no bet ter example than the passenger servfee provided by the railroads of this country. Every one knows that American ratiroad trains are far in advance of those of any other country in comfort, and for long distances at least in speed also, but the traveling public does not always realize that the great | Liverpool, the three greatest commermultiplicity of passenger service provided between the important centers of population in this country is no connected by half a dozen different less a luxury not enjoyed elsewhere lines, but the train service between and one which the stern needs of war | them, though expeditious and convenmy shortly make it necessary to lent, is equaled by the facilities en-

0

It has long been held by some rail- cities of the United States. road managers that the interests of true economy demanded some reduct greater. Between London and Paris, tion in the number of passenger trains scarcely 200 miles apart, there ran and one of the first steps taken by the daily before the war only half a dozen executive committee of the American | through trains, a day and a night train Railway association, which is practic- on each of three routes. Between ully in control of the nation's trans- I'uris and Bertin, a distance of 650 portation facilities for the period of miles, traveling is a trifle difficult at the war, was to urge upon the various present, but prior to August, 1914, an companies the propriety of arranging American who undertook the journey thrift of the flock and the profits of for a substantial reduction in passen- was generally astonished to learn that | the owner. ger service, the New York Sun says.

Play Days of Railroading.

The present condition is a relic, almost the last one, of the old days of ried a sleeping car. Between the other unrestricted competition between the different companies. It is a survival of the days when rates were made in the traffic manager's office without supervision by federal or state commissions, when co-operation was undreamed of and each line considered that its duty lay in running as many trains as were necessary to care for all the traffic between any points which it served regardless of rival lines which were certain to share to some extent in the business.

Those were the palmy days of rallroading, the days of brass trimmed locomotives, of sleeping cars fearfully United States for the purpose of preand wonderfully decorated, when a division superintendent had the powers of a governor general and a railroad danger to trespussers on railway proppresident was the absolute monarch, erry. In the months of July, August not only of all he surveyed, but gener- and September, 1916, the number of ally of all the territory served by his persons killed in accidents resulting company. Statistics had not yet be- from the operation of trains in the gun to play a prominent part in rail- United States was 2,781, and of these road management. A soul satisfying 1.512, or 54.4 per cent were trespassers, name for the newest crack train was | The number of trespassers killed was more important than the mere detail three times as large as the number of of earnings per train mile.

#### Too Many Passenger Trains.

So it came to pass that when the day of the railroad czars came to an end, as the day of all czars seems to do sooper or later, and much of the authority which had once vested in them began to be exercised by public service commissions in the several states, the abolition of passenger trains became more or less a political question. Any attempt to do away with one was resisted to the bitter end by every inhabitant of the district through which the gaudy flyer passed; it mattered not whether the particular objector had ever been aboard the train or not. Public service commissions were often reluctant to fly in the federal government and the 48 states," face of public opinion, population increased, and not only did the unprofitable trains remain in service but there was a constant demand for more and masters, or most of them, were taking more trains, frequently enforced by the | orders from the railroads |

Weighing Locomotives. Engineers of a European railroad tunnels Swiss railroads are equipping have built a machine for weighing lotheir locomotive stacks with lids to comotives that provide a separate scale for each wheel.

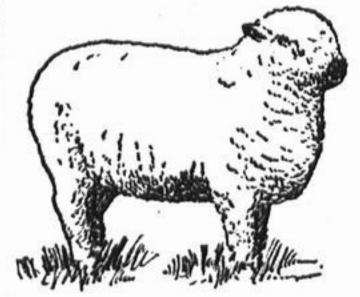
Women Clean Engines. Women who clean engines are a new arrival in the engineering world in Britain. neighborhood of raffroad crossings, is

Women Operate Railroads. The railroads of France are practically operated by women.

#### SHEEP PROFITABLE ON FARM

More Can Well Be Maintained in Addition to Live Stock That Are Aiready Kept Thereon.

(By W. F. BAIRD.) While it is not my purpose to try to induce stockmen to abandon cattle and pork production and engage exclusively in sheep raising, I do claim that from ten to one hundred more sheep could be profitably maintained on a very large portion of our farms



in addition to the live stock that are already kept thereon. For a period of 23 years I have been engaged in general farming and stockraising where I now reside. I have been raising horses, cattle and hogs during this entire period, and for the last 16 years I have kept from 100 to 125 breeding ewes of the mutton type. I have en- any other ment, noting poultry. deavored to produce as good stock of The supply can itly increased specific orders of the state commisall kinds as I could, and to keep them | within a few mentiout requiring So arose the situation as it is today. In the most profitable manner. I have space that may be for the profound no other class of live stock more duction of crops, al experience Every important city in the United profitable in dollars and cents than has demonstrated buit meat can States is served by from three to ten the sheep. Aside from this fact, I find be produced in un quantities at that I can now keep as much other a cost of about size pound; and centers of population in other parts stock as formerly in addition to the by utilizing lawngs and other wish to engage in this pursuit. The traveler between New York and

Some of my fields produce twice as 36 different trains-16 on the New much grain as formerly, and my grass York Central, ten on the Pennsylvania, lands are much more productive than four on the Lackawanna, four on the they were. There is no great mystery connected with the care of the farm Eric. Should business or pleasure take flock, but there is more to do than to purchase a flock and turn them out to Prompt Sprayin Bordeaux he is confronted with a selection of 42 shift for themselves without proper attrains on the Pennsylvania, 17 on the tention and shelter, if one expects to New Jersey Central and eight on the add to his bank account. Costly barns Baltimore and Ohio-67 in all. Even are not a necessity, but some sort of a shed that will keep them dry is Orients are the objectives of half a needed. Let your roofs be constructed of shingles, boards, iron or any material that will keep off cold rains, sleet, etc. I prefer a shed extending east and west, open or partly so on the south side, so arranged that it can be



and Wool Sheep.

closed if bad storms occur. Give plenty of pure air, a dry place to lie down, and all the sunshine possible, thereby adding to the comfort and

#### HARVEST CROPS WITH SWINE

Results Given of Experiment Conduct leaves and a mildew appears ed by Ohio Station-Best Gains Made on Clover.

In tests made by the Ohio station three lots of pigs were fed 30 days as follows: Lot 1, ear corn and clover pasture: lot 2, allowed to hog down rye, and lot 3, ear corn and rape pasture. In addition all lots were fed approximately one-fourth pound tankage daily per pig. The respective lots made average daily gains of 0.82, 0.57 and 0.75 pounds per pig, and consumed, aside from pasture, 2.66, 6.34, and 2.91 pounds of feed per pound of blight bordefure has proved trates and reproduces himself faster gain. Lot 2 was then put in with lot its value for. Every grower and in greater numbers than any other I on clover and lot 3 remained on the from Maine an and south to domestic animal. As a consumer of rape, where the pigs were fed for 26 Virginia is days. The pigs on clover made an av- and repeated erage daily gain per pig of 0.73 pounds, l consuming 3.64 pounds of feed aside from pasture per pound of gain, and the lot on clover, 0.87 pounds gain, consuming 3.16 pounds of feed per pound of gain.

#### PEDIGREE OF DIRECT VALUE

railroad employees who lost their lives Gives Record of Ancestors of Animals in the same way. Yet trespassing perfor Five or Six Generationssisted. It is highly probable, however, "Like Produces Like." that the risk of danger from shooting

> The pedigree of an animal is a record of its ancestors, or family. The ordinary pedigree usually shows the ancestors for five or six generations. The value of the pedigree lies in the fundamental law of nature that "like produces like."

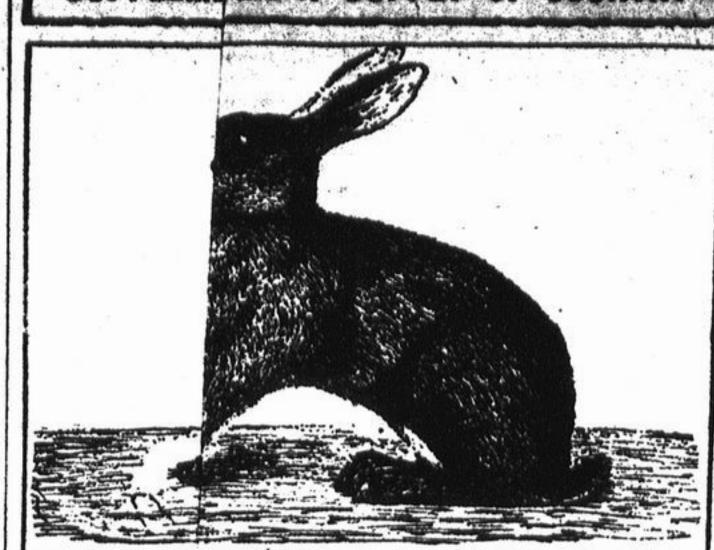
### DON'T SELL BREEDING STOCK

Fancy Prices Offered for Brood Sow of Cow Should Not Tempt Farmer at This Time.

Don't let the temptation of high prices now being offered for live stock or undue fear of the prices asked for many popular breeds mislead you into selling a breeding cow or a brood sow that will drop the golden calf or litters.

Pushing Swine Industry. Less crossing of breeds is respon sible for fewer spotted swine than were common several years ago. One breed to a farm and one standardthe best-are pushing the swine industry ahead.

Handling Coft and Mare. Before letting the colt to the mare is not wrench. When in full at mealtime, partly milk out the ud- flow of nequire, it is claimed, der. In hot weather let the mare rest | 50 per d water than when and cool off a few minutes before the dry.



BELGIARE IS VALUABLE SOURCE OF FOOD.

(Prepared by the Btates Depart- | vegetation that would otherwise be ment of Aure.)

The meat supply country may well be supplementlogists of the United States dept of agriculture point out, by sing of rabbits by youths and adit engaged in military or other al service, or in regular indu employment. These animals alrave proved a valuable source of a Europe during the present up the United States they mightised in back yards of cities ans as well as

The Belgian heeds rapidly matures quickly, aluces a palatable and highly as meat. The cost of production than that of

months old and average from five to six pounds live weight.

wasted, the cost can be made even

The Belgian and Flemish giant rab-

bits are recommended for meat produc-

tion, as the ordinary tame rabbit is

smaller and develops more slowly.

Stock of Belgian hares may be bought

from breeders in nearly all the states

at \$1 to \$3 each. They may occasion-

ally be had from pet stock dealers,

Funcy pedigreed stock is not required

Rabbits are easily kept. They eas

hay, grass, lawn cuttings and green

vegetation of many kinds. Females

should be allowed to breed when eight

or ten months old, and during the year

should raise four litters of about six

young each. Well fed, the young reach

marketable size when three to four

for meat production.

The department of agriculture has published a bulletin on ruising rabbits which will be helpful to those who

needed and apply at once. It is never

so good after it has wettled.

#### SPRAY POTES TO AVOIDE BLIGHT

Mixture Will st Cases Be Fourttive.

(Prepared by the States Depart Potato late bligagous disease, orates is replaced.

canable of causimous destruc-000 bushels per

To produce crop the tops must be kept till frost as the ubers increase most rapidly during the last of the season. The late blighthe tops and causes the tube in the ground. The blight sta few centers in the field where potatoes were planted. Broy develop on the on their unde Frequent rains and warm, senther furnish ideal condition development of the blight unch the foliage blights rapidlives hang blackened and dend tubers begin to rot. Dry and ther on the other hand tends the progress of the hlight hus should spray immediately trust their crops

How to Meaux Mixture. Home-madaux mixture is

..... 4 pounds 

Prepare ti sulphate by susir sack fust below and stir intrel enough additional water exactly 25 gallons of theblution.

lime milk, roughly,

per contak the bordenux as with 1915.

Poultry.

The hetent to enter poulwith a ve capital and gradnally end it provides a good livelihood

in Yield.

Cows if in milk if water

mixture, add the poisen after the two solutions are mixed. 'Then stir well. Stock Bordeaux Solution,

Where poisons such as arsenate of

lead are to be combined with bordeaux

Those who use bordeaux mixture

frequently and in quantity will find it convenient to keep concentrated stock solution on hand, as these keep indefinitely if the water which evap-Build an elevated platform to hold

tion, has appearieveral states the barrels. The night before the from Maine to Bey and West day you wish to commence spraying. Virginia, accord the United suspend 50 pounds of copper sulphate states departmentculture. The to dissolve in a 50-gallon barrel of blight occurred es year and re- water. Slake 50 pounds of lime in ports show that ore prevalent another barrel. Add water to make 50 than usual. Whome fields the guillous of lime milk. When bordenux dight is alregend control, mixture is needed, stir both stock bar prompt sprayingordenux mix- rels well and take four gallons from ture will in mos still be effect each stock barrel. Dilute the copper tive, the specialise. Unless po- sulphate in one barrel by adding tuto growers soroughly with enough water to make 25 guillons. Dibordeaux mixtu fear that the lute the lime milk in another barrel large potato cresas been prom- by adding enough water to make 25 ised will not be. as late blight, gallons. Stir each thoroughly. Comif uncontrolled, he of reducing | bine the two as in previous directions. the national crd rate of 2,000,- Thorough agitation is essential in making good bordeaux mixture.

## PORK IS PRINCIPAL MEAT OF AMERICANS

Hog Is Most Important Animal to Raise for Meat and Money--Consumes By-Products.

From the United States Department Agriculture.)

The quickest and surest way of angmenting the ment supply next to raising of poultry is by raising hogs. the United States department of agriculture points out. The hog is the most Important animal to raise for mest and entirely to fent in weather money. He requires less labor, less equipment, less capital, makes greater As an efferentive of late gains per hundred pounds of concenspray at once by-products the hog has no rival. No other animal equals the lard hog in its fat-storing tendency. The most satisfactory meat for shipping long distances on train, hoat or wagon, and for long storage after reaching its destination is mess pork.

Pork finds ready sale because packers have discovered many ways of placing pork on the market in attracthe surfaceal gallons of wa- live and highly palatable form com-When the sul- bined with most excellent keeping qualities. There is no other meat from three or for remove the sack | which so many products are manufactured. Very near 50 per cent of the total value, in dollars and cents, of the meat and meat products slaughtered Prepare ly slaking it slow- in the packing houses of the United ly and thon a clean barrel, States is derived from the hog. Our strain, andigh additional wa- country leads by far all countries in ter to may 25 gallons of the production as well as in the consumption of meat and meat products. Pour theredlents together Three-fourths of the world's internainto anoth or better directly | tional trade in pork and pork products into the st if it will hold 50 originates in the United States in nor-If important to stir | mal times, and the war greatly has inthe mixtuhoroughly and to creased this proportion. According to strain bothts before they are | the estimates there was an increase of combined, use clogging of the 9,580,000 hogs between 1910, the census spray nozi result. Use cop- year, and 1916, inclusive. The increase strainer of 18 at the end of 1915 was 3,148,000 over Do not put cop- the preceding year, while it is estiper sulphacaux mixture into mated that there was a decrease at the tin or iro use wood or cop- end of 1916 of 313,000 hogs compared

Keep Out Cut Worms Tin cans make good protectors to try keepinstness is that it keep the cut worms away from the may be h in a small way tomatoes and cabbage.

Plant Seeds of Rust. Fall rains plant the seeds of rust which are harvested by the manufacturers of farm machinery.

Butter Flavor Defects. The most common defects in flavor in butter come from cream etc.

ndge would acquit you.

Small Game.

"Your son is a great fisherman, is "Calls himself such. He's just back from vacation. Caught a bunch of measly trout when he might have caught an heiress."

No Slacker.

Witty One-Corporal Strutt enlist ed in April. He's the most patriotic recruit I've met. Pretty One-How's that?

· Witty One-He's highly insulted be-

cause his father sent him some money

by draft.—Town Topics, Nine out of ten men whose names are signed to a petition couldn't tell what it is for.

Another great invention ought to be time-lock that will shut up the mechanical music at 10:30 p. m.

the teamsters?"

Dr. Kilmer & Co.

Binghamton, N. Y.

formation, telling about the kidneys

bladder. When writing, be sure an

tion this paper. Large and median bottles for sale at all drug stores,-

"What sort of a dinner was that of

"I guess it was an a la cart one

### A Message to Mothers

OU know the real human doctors right around in your neighborhood; the doctors made of flesh and blood just like you: the doctors with souls and hearts : those men who are responding to your call in the dead of night as readily as in the broad daylight; they are ready to tell you the good that Fletcher's Castoria has done, is doing and will do, from their experience and their love for children.

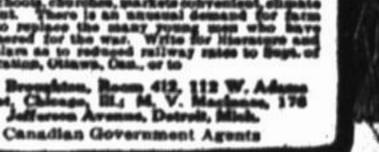
Fletcher's Castoria is nothing new. We are not asking you to try an experiment. We just want to impress upon you the importance. of buying Fletcher's.

Your physician will tell you this, as he knows there are a number of imitations on the market, and he is particularly interested in the welfare of your baby.

Genuine Castoria always bears the signature of

# Canada's Liberal Offer of Wheat Land to Settlers

is open to you-to every farmer or farmer's son who is anxious to establish for himself a happy home and prosperity. Canada's hearty invitation this year is more attractive than ever. Wheat is much higher but her fertile farm land just as cheap, and in the provinces of Manitoba, Saskat and Other Land Sold at from \$15 to \$20 per Acre heep up the price. Where a farmer can get near \$1 for wheat and raise 20 to 45 bushels to the acre he is bound to make money—that's what you can expect in Western Canada. Won-derful yields also of Outs, Barley and Plan. Mixed Farming in Western Canada is fully as



#### SHAKESPEARE AT THE FRONT

Famous English Actress Declares Every Performance She Gave for Soldiers Was a Joy.

Miss Lena Ashwell, the distinguished number of dramas and Shakespearean plays to soldlers at the front, waxes eloquent upon her strange and wonderful auditory, "No Tommy is stodgy, as a West end audience is," she re- the poor quarter and, stopping at a

The Tommies show their devotion in | no answer. all sorts of ways, Some Tommies, hearing she was coming, built her scenery a window flung open and a woman out of odds and ends of canvas and whose appearance betrayed signs at wood, painted red and yellow, exactly a sudden awakening leaned out. like the framework of a Punch and "Well, what is it?" she asked Judy show. Another group of men. working with the forage supplies in Rouen, on the railway side, where there are scarcely any blooms of any days! sort, managed to get her a little tight bunch of flowers, arranged with a hit of paper like an old-fashioned bouquet. Still another devoted group gave her

a little box of silver, benutifully chased, But what she treasures most is a lucky bean. The young soldier who gave it to her stood grasping her hands in the dark, saying blunderingly that he had been eleven months in the trenches and that she could not imagine what it meant to him to see a lady much less hear her speak; that this bean had been all over the world with him and had brought him good luckhe hadn't been wounded yet-and new he wanted her to have it. The boy was simply giving her everything. No wonder she set his bean in the best of gold and wears it always.

#### CUTICURA IS SO SOOTHING

To Itching, Burning Skins-It Not Only Soothes, but Heals-Trial Free.

Treatment: Bathe the affected surface with Cutteura Soap and hot water, dry gently and apply Cuticura Ointment. Repeat morning and night. This method affords immediate relief. and points to speedy healment. They are ideal for every-day toilet uses. Free sample each by mail with Book. Address postcard, Cuticura, Dept. La Boston, Sold everywhere.-Adv.

An Elegant Translation

A Boston girl who had been taking her first lesson in bicycle riding expressed her satisfaction at home at the result of the experiment. "The man said," she repeated, "that

I had made most satisfactory progress for a novice." "Why, did he really say that?" was

the surprised query. "Well, no," answered the Boston young woman, after a moment's reflection. "What he did says was, You'll do fust rate for a new beginner!" ---

Uruguay has 22 meat-packing plants

Christian Register.

# University of Notre Dame

NOTRE DAME, INDIANA Offers Complete Course In Agriculture Full courses also in Letters, Journall Library Science, Chemistry, Pharmany, Melli-

London actress, who has been giving a sine, Architecture, Commerce and Law. No Cause for Alarm. The other Monday afternoon a woman rushed excitedly down an aller in marks. "Every performance was a bouse, knocked loudly. Receiving no

> reply, she knocked a second time. #till A third time she knocked, and then

The woman below looked up and claimed with bated breath:

"Mrs. Skinner, yer 'usband's got ten "Dear, dear me, Mrs. Johes," was the reply, "Is that all? How yer did us-

nerve me!- I thought it was that

scarecrow after the rent agin." Certainly Dees. "Did you see where the first prisoner taken by an American in the

"That certainly lent weight to the The man who can extract office off

trenches weighed 220 pounds?"

from cotton seed should be able to gather figs from thisties, A GUARANTEED REMEDY FOR

without any question if this remedy dose not he every case of Asthma, Bronchigi finitions, and Asthmatic symptoms accompanying Hay Fores, matter how violent the attacks of citations the

positively gives INSTANT Estant in award asso and has permanently enject thomsands who had been considered inequable, after having tried every other means of relief in value, Authoration should areas themselves of this guarantee offer through their druggist. Buy a 16-cent package and present announcement to your druggist. Too will be sole judge as to whether you are benedited and druggist will give you back just money if you not. We do not know of any fairer propose which we could make. Schiffmann Co., Proprietors, St. Paul, Miss

going to plant berry bushes, grapes, app your section to take orders. The pay is liken Work when convenient. Any time is a good dis to sell Chart steels, but the best time is right as



