

Rural Free Delivery an At the recent International Good Reads Convention, at St. Louis, Hon. Frank E. Nevins, of the United States Postoffice Department, delivered an dires in which he said:

"The establishment of the rural free felivery of mail throughout the counmy has produced a m ked improve ment in the condition of the highways. When there is a prospect of rural free Selivery in a community, work immefiately begins on the roads. There are now in operation 28,000 rural soutes over which carriers travel 550. 100 miles delivering mail to about 000,000 people. More than 15,000 bridges have been constructed over streams that would not have been failt if it had not been for the estab dahment of the free delivery system. Nearly every portion of the country, where road conditions will warrant it, is now supplied with this service. But in many sections the bad conditions of the roads, or the lack of bridges, prerent the extension of the service. The rural carrier of a standard route is now expected to travel about twentyfive miles each day to earn his salary of \$600 a year. He is required to furnish and maintain his own outfit and team, and to give a bond of \$500 for the faithful performance of his duties. Experience has demonstrated that this distance is too great on account of the had condition of the roads. So many carriers have resigned, thereby causing much confusion and labor in the department, that the Congress just adjourned has been compelled to add \$170 a year to the salaries of the carriers of the country. This increase of salaries amounts to about \$4,000,000 a year additional that the department has to pay to maintain this service on account of bad roads. Over a good graveled or macadamized pike road a carrier can easily make twenty-five miles a day six times a week. With the roads as they are, it is a question whether the next Congress will not be called upon to add another \$4,000,000 to the salaries of the carriers.

'Under the road laws of most of the Western States at the present time work is done upon the roads in the fail by the various road districts, when there is no work to be done on the farms. In the spring this work disappears. Nothing permanent remains, and the roads are in as bad condition. pr worse, than they were before. The cost of \$2.000 to \$6.000 a mile for the construction of hard roads in this Western country is too great, in most Instances, for road districts, townships and counties to bear; neither is it right that they should bear the entire cost. The public at large, which shares directly or indirectly in the benefits, contribute to the expense There never will be good roads in this country until the National Government takes the initiative in this movement, and the respective States of the Union join in with liberal contributions, and this again is supplemented by local enterprise. Continental Europe, England and Ireland are covered with hard broad pikes built at the expense of the governments of those countries. No country in the world ever yet had or ever will have permanent and passable highways constructed and maintained by local authority. "Sixty per cent of the population of this country lives in the cities and villages; 40 per cent lives in the country. It is not fair or just to place the entire burden of good roads upon the shoulders of the farmer. The general public shares directly or indirectly in the benefits and should bear the expense of an equitable tax for this purpose on all assessable values. The weight of it upon the individual would then be as light as a summer shadow. While this specter of taxation may frighten some of our skittish country friends and cause them to rear and blunge a little, they will find on closer aspection that the goblin is a harmless creation of the imagination. They will get back in benefits ten times more than they will pay out in taxes. "Why some of our friends spurn Bovernment aid when it is offered hem I cannot understand. They claim to be opposed to it on principle, and tan see no good in it. There are some people so constructed that when lookng into a pool of water they can nevir see the sky and the clouds above it reflected on its surface, but only the mud at the bottom. "This Government never falls to do the right thing in the end. It will not fail to do the right thing in this instance. The impetus given to this movement by a few progressive statesmen who introduced measures in Congress last winter authorizing national ild in the construction of highways. will ultimately produce the results simed at. It cannot fail to do so besause the public interest demands it the progress of the age demands it. the welfare and development of the sountry at large demand it, and it is bound to come in spite of those who "also their voices in opposition to it."

ern rides and artillery the less is the ercentage of men killed. During the Seven Years' War betwen Germany and Austria and the dynastic wars of the eighteenth century the rival armies opened fire at a distance of one hundred yards, and after the first few olleys charged with the bayonet or pike. The average loss in these wars was seventeen per cent of the total number of combatants. During the time of the Civil Revolution and the Napoleonic era the losses were sixteen per cent. In the Italian war and Orimean war, with improved weapons theoloss fell to fourteen per cent. In 1866, in the war of Prussis against Austria, with improved needle-guns and greater distance, the losses were seven per cent. In the Franco-Prussian war the losses sank to five per cent. This is both fortunate and unfortunate, according to one's view! point. But the financial argument for peace cannot be gainsaid.

INVISIBLE HANDWRITING

Transfer Left by Ink Which May Be

Readily Developed. In writing with certain forms of ink on ordinary paper, placing the sheet after thorough blotting in contact with a white sheet of paper, it is possible to mocks among the treat, the birds were was blowing over us, the birds were ference, which, as M. A. Bertilion has shown, may be rendered visible by the use of certain methods. In fact, a letthe leaves of a book will leave its by the old King Charles, who redeemter placed for several hours between secret in this book, and a falsification in a ledger may be proved by the examination of the page against which the faisified page rests.

A Swiss investigator (R. A. Reiss, of Lansanne) has recently made investigations in reference to the above phenomenon and in reference to the cond ditions under which it may be produced. It appears that the formation of the image depends principally on the ink, although it was discovered that the latent image may be produced by nearly one-half of the lnks in current use, out of thirteen different varieties of ink seven having produced a positive result. It further appeared that the formation of the image depended upon the presence of acids in the colored mixture, the gum and the sugar having no part in the phenomens, although the paper on which the writing has been placed gives different results. The best results were obtained with paper well sized and polished, for the reason that the contact in this case is closer, thus favoring the production of the image.

The duration of the contact is not necessarily long, in general about an that ever burned in the sunshine was hour, while in order to reveal the image two very simple measures are resorted to. The first method is to apply the back of the sheet on which the iatent image is supposed to be a warm all about it if I tell you any-that iron, an ordinary flatiron, which is held in place until the paper is slightly er, she soid Mr. Thornton had been browned, after which the image will appear sometimes very clear and complete. The other method does not make any change in the paper to be examiined, and consists in placing in cons mch her mate-I know he was, betact with the latter a sheet of nitrate of silver photographic paper for sev-sees you good to see, who look as if was the way, by the way, that we eral hours-six to tweive-the two hey could hold up the world if need came to have chickens round the front hey could hold up the world of need to have chickens round the front heets being exposed to the light. The photographic paper will completely blacken, but the latent image will stand forth very distinctly. It should be stated that the leaf on which a latent image exists loses this image by contact with water or alcohol-Paris l'Illustration.

IN ANY GARB.

In olden times, when a girl grew up, They tied her with ropes of gems. They shackled her ankles and wrists with ore, And they crowned her with diadems.

They soaked her tresses in perfumed oil, They rubbed her with pastes and things, Then brought her forth, as a queen, belit To rivet the gazes of kings.

But now-a dip in the tumbling waves, With a rost on the sands between, A linen skirt, and a sailor hat-And-she's just as much of a queen! -Madeline Bridges, in Life.

Romance of a Barn-Yard

bent, more vexed and worried every

day, and one would hardly have rec-

they would ever come together again.

We had met Mr. Thornton elsewhere,

but he had never come across our

threshold since the day he went out

with his bride's ring. And Aunt Helen's

peculiarity was that she never forgot.

Could she, then, forget the words he

spoke to her in his anger? Could she

ever forget his marrying another wo-

in that week and a few following that

her hair had turned white. She had

suffered inexpressibly; she had not

slept a night, but she kept up a gay

face. Perhaps she would have suf-

fered if it had not been for our grow-

ing up about her. Her life was thus

filled, every minute of it; she had but

very little time to be lonely, to brood or

mourn. She forgot herself in us. It

her comely. And then she was too

But one day-after the time when

the doctor had said Harry was a hope-

county fair, and took from the wool

within it two of the cunningest mites

"I hate them," said she; "they make

And so they did amuse him and de-

light him, as he lay on his lounge in

the bay window and watched them

me crawl; but they will amuse the

But there was little chance of that.

E were all sitting on the plaz-any temper left at all He wife had were swinging in the hammocks among the trees; the sea wind farting low here and there, and the bantams and the spring chickens and the big black Cochins were clucking and picking in the grass, watched over ed us from vulgarity, and it was a scene of domestic comfort, as Aunt Helen's life, and making him an ob-Helen said. Aunt Helen, by the way. pecame a very pleasant addition to the comfortable appearance of the scene, as she said it. She was just as plump as a woman ought to be when her sext birthday may be her fortieth. She had a soft flush on her cheek, where the dimple was yet as fresh as when she was a girl, and the flush deepened sometimes into a real damask; her seeth were like rows of seed corn for whiteness, and her eyes were just as man in less than a week? It had been prown as brook water; only her hairthat was quite white. Lovely hair, shough, for all that; she parted it evenly over her low, level forehead and above the yet black eyebrows; and we all declared, every day of our lives, that Aunt Helen was a beauty.

"I used to be," she had replied; "but that's all gone now. I have put my youth behind me."

Perhaps she had. But we young gave her a quiet happiness, and kept tolks used to think differently when we naw Mr. Thornton coming up the road, proud; whenever the thought thrust up and Aunt Helen's eyes resolutely bent its head, she shut the lid down, as one on her work, but her color mounting might say, and sat on it. and mounting, till the reddest rose But one day-after the not so rich. Mr. Thornton saw it, too, less cripple, and must lie on his back no doubt, for he always looked and the rest of his life-Aunt Helen looked intentiy all the way by. But brought home a little basket from the the truth was-I shall have to tell you when Aunt Helen was 20 years youngof chickens you ever laid eyes on. overs ever since they could rememper. They had built their house at dear child. They're African."

iast, and her wedding dress was made. 'f she was a beauty, he was every cause he is to-day-one of the men it growing up, full of business. And that

heir powers.

"I should like to know how I was going to leave. Only I'll my this, that if calling to this whole afternoon. Aunt Helen would marry old Thornton to-day-she wouldn't touch him with a walking-stick!"

To our amazement, on the very next afternoon who should appear at our gate, with his phaeton and pair, but Mr. Thornton; and who, bonneted, and gloved, and yelled, should issue from the door, to be piaced in that phaeton and drive off with him, but Aunt Helen! Ned chuckled; but the rest of us could do nothing but wonder.

"Has she gone to be married?" we gasped. And Lill and Harry began to

ery. "Well, I'll tell you," said Ned, in mercy. "He said there'd never been a day since he left her that he hadn't longed for what he threw away!" "Oh, how wicked!"

"She told him so, very quietly and severely-1 tell you Aunt Helen can be severe-and to be silent on that 'Forover? said be. 'And ever,' said she. It is impossible,' said he. And then he went over, one by one, a dosen different days and scenes when they were young: and if ever a fellow felt mean, I was the one."

"I should think you would," we cried with one accord.

ognized, people said, the dark and "Now look here," returned Ned. "If splendid Stephen Thornton of his you want to hear the rest, you keep youth, in this middle-aged, gray-haired that sort of remark to yourself. It was man; and yet, to our eyes, he was too late to show myself, anyway. And still quite a remarkable looking per-I'll be blamed if I'll say another word son-perhaps more so from our assoif you don't every one acknowledge ciating him with the poetry in Aunt you'd have done just as I did."

"Oh, Ned, do tell the whole. That's ject of wonder as to whether or not a good boy."

"Well, she just began to cry-I never saw Aunt Helen cry before. And then it seemed as if she would go distracted; and he begged her not to cry and she cried the more; and he begged her to marry him out of hand-I know just how to do it now; only it doesn't seem to be a very successful wayand she shook her head; and he im plored her, by their old love, he said, and he wiped her eyes, and she looked at kiro, and gave a laugh-a bateful sort of laugh.

" "Then,' said he, 'if you will not for my sake, not for your own sake, then for the sake of the motherless children. who need you more than ever children needed a mother yet, and who-who are driving me crazy!' And then Aunt Helen laughed in earnest, a good, sweet, ringing peal; and the long and short of it is that she has driven up to the Thornton house to-day to look at the cubs and see what she thinks about them. Maybe she'll bring them down here-she's great on missionary work, you know."

"Well, I declare!" was the final chorus. And we sat in silence a good half hour; and by the time our tongues were running again Aunt Helen had returned and Mr. Thornton had come in with her and sat down upon the pinzza step at her feet, but not at all with the air of an accepted lovermuch more like a tenant of Mohamet's coffin, we thought. And, as I began to tell you, we were all sitting and swinging there when Aunt Helen exclaimed about its being a scene of domestic

black Cochin hen came to meet her.

"Why, where's your husband?" said

"There he is," said Ned. "He's been

up alone in that corner of the grass

the whole day, calling and clucking

and inviting company; but the rest

haven't paid the least attention to him.

and are picking and scratching down

"Oh, but he's been down there twice

Ned," cried Harry, "and tried to whip

the little bantam, but it was a drawn

"Well, he ought to have a little va

cation, and scratch for awhile," said

Aunt Helen. "He has picked and

scratched for his hen and her family

"And so's the banty," said Ned. "The

bantam's the best; he's taken as much

care of the chickens as the hen has,

any way; and he never went to roost

once all the time his hen was setting,

Mr. Thornton, but sat right down in

"A model spouse," said Aunt Helen

"They are almost human," said Mr

Thornton. And so we sat talking till

the tea-bell rang, for Mr. Thornton was

going to stay to tea, he boldly told us;

and we saw that he meant to get all the

young people on his side by the way he

began to talk to Ned about trout and

pickerel, and about deep-sea fishing;

but when he got to cel-traps, Ned's

face was purple, and he blessed that

of his taking our Aunt Helen away.

We were just coming out from tea

and were patronizing the sunset a lit-

tle, which was uncommonly fine, and

I thought I never seen Aunt Helen

looking like such a beauty, with the

rich light overlaying her like a rosy

bloom, when John came hastening up.

"I just want you all to step inside

the barn door with me if you please,

marm," said he. And we went after

him to be greeted by the sweet smell

of new-mown hay, and to be gilded by

the one great broad sunbeam swim-

door to door. "Do you see that?" said

"And now do you see that?" he said:

and he turned about and shewed us,

on the top rail of the pony's manger.

the straw beside her every night."

she to the hen.

about the cannas.'

battle."

all summer."

"That's who he's been clucking and wretch!" cried Ned.

"And now look here," said John; and we followed him into the harness room, where the chickens had chanced to be hatched, and there, in the straw on the floor, sat the disconsolate little bantam rooster, all alone, with his wings spread and his feathers puffed out brooding his four little chickens under his wings-the four little chickens deserted by their mother.

"I declare! I declare" cried Aunt Helen, as we came out into the great motey sunbeam again; "the times are so depraved that it has really reached the barnyard. The poor little banty and his brood! Why, it's as bad as a forsaken merman!"

"Only not so poetical," said we. "Helen," said Mr. Thornton, "it's exactly my condition. Are you going to have pity for that bird, and none for me? Are you going to leave me to my fate?" And in a moment, right before us all, as she stood in that great red sunbeam, Mr. Thornton put his arms round Aunt Helen, who, growing rosier and rosier, either from the sunbeam or something else, could do nothing at last but hide her face. "Helen," he said, "you are certainly coming home with me?" And Aunt Helen did not say no .- Waverley Magazine.

GEOMETRY EXCITES THEM.

Explanation of Quarrelsome Couple on Trolley Car.

"Do you see those two?" said the conductor of the suburban trolley car to a man on the back platform, "that man and women in there who ard pawing so?"

The man answered that he did. He might have said that he had been watching them for the last hiteen minutes, and had been wondering whether they were sister and brother or man and wife, and whether they were can didates for the divorce court or were in a dispute over their parents' will.

"They go on that way every time they come to town," the conductor continued, "and they don't seem to care whether people get onto them or not. It used to bother me for a time.

"Other folks would come out to me and ask who the quarreling couple were, and I couldn't tell them. Once an old man declared that they were crazy and insisted that I should put them off the car, as he couldn't read his newspaper in peace."

All this time the man and the woman were deep in their argument. The tuan held a visiting card in one hand, and on the back of it had written or drawn something.

The man on the back platform with the conductor craned his neck and managed to see that the markings of the card were mostly straight lines, and he came to the conclusion that they were brother and sister after all and that the lines represented the boundary lines of some property they were quarreling over.

But the conductor, who had been up the car collecting fares, now returned and explained the mystery. The couple were man and wife. The man is comfort. As she sat down the big an instructor in geometry in a large and Aunt Helen threw her a bit of private school, and he has a wide rep-

Fewer Deaths by War. If a French writer on military subtects is correct, the advocates of peace man so longer fall back upon war's in-reasing destructiveness to human life is an argument. On the contrary, he time that experience shows that the Consider the or mater the destructive power of mod- be unreasonable.

The Great Russian Lake.

Lake Balkal, which figures so much in the Oriental situation, is a somewhat remarkable body of water. Its name is a corruption of the Turkish Bei-kul, "rich lake"-the reference be ing, presumably to the valuable fish with which it swarms.

Lake Balkal is the third largest body of water in Asia. The Caspian and Aral seas are the two larger. Both are sait, however, while Balkal is fresh, It is, therefore, the largest fresh water lake in Asis, and the sixth in size in the world, the five Great Lakes of North America each exceeding it in Perhaps, on the whole, Mr. Thornton aren. Its waters occupy a remarkable depression in the vast plateau of Central Asia. The level of its waters is 1.300 feet above the sea, while the bottom of the lake is, in some places, married anybody that asked her, and more than 3,000 feet below the sea level. Its depth is, therefore, 4,500 furnished according to Aunt Helen's feet in the deepest parts.

The lake is 830 miles long, and from nine and a quarter to forty miles wide, Its waters are a deep blue, and remarkably clear. There are a number fowl, and the little lawn was all alive of islands in it; the largest Olkhon, is with its overflow, and you couldn't go forty-two miles long. There are nu by the place without meeting a flock merous hot springs on the shores, and of cropple-crown, or patridge Cochin. earthquake vibrations are frequent, or white Leghorn, or black Spanish. The annual value of its salmon, stur- flying up on each separate piece of geon and other fisheries is about one fence to crow out Mr. Thornton's trihundred and sixty thousand dollars. Fresh water seals are abundant, and the crower, and crying, "No women

they are caught for their fur. It re- rule here!" ceives the waters of several streams. the main one being the Sainega River, old in a few years. His inoffensive eight hundred miles long. The upper little thing of a wife turned out to be Angara River, also of considerable a smart termagant, who led him a size, enters its northeastern end. Its pretty dance. Perhaps she was dissat outlet is the Lower Angara, on which isfied with her piece of a heart; but Irkutsk is situated.

road was not built around the southern end of the like is that the solid rock of the mountains reaches to the water's edge, and the task would be herculean. Events in the East may compel it nevertheless.

Consolation.

It may be dat yo' sweetheart Done lef' you feelin' blue, But de melon coolin' in de well Wid a rips, red heart fer you! -Atlanta Constitution.

Consider the other side. You may

e, and inspire you with confidence in plazza. One night, a year after, when

Now, what in the world do you supcas that, with their house furnished. ind the cake baked, and a dozen years I intimate affection to bind them, Aunt Helen and Mr. Thornton found to quarrel about? She declared she wouldn't keep hens! And he declared that he wouldn't keep house! That was the whole of it, to condense the statement; one word led to more, and fasily, in a towering passion himself, # told Aunt Helen that she had betwer learn to control her temper if she and not want to be a vixen entirely. and Aunt Helen took the ring off her inger and laid it on the table without , word and sailed out of the room nd refused to see him when he called n the morning, and sent back his let for unopened, and cut the wedding ske and put some of it on the teaable and sent the rest to the fair. might have been right. Exactly one week from that night Mr. Thornton was married to Mary Mahew, an inoffensive little body who would have she went into the house that had been leau.

taste; and immediately afterward a ben-house of the most fanciful description of architecture rose on the hul behind his house, full of fancy umph-reversing the on tradition of

They say Mr. Thornton grew very then she knew that was all when she took it. He treated her always very The reason why the Siberian Rall. gently-perhaps feeling he had done

her some wrong in marrying her-and gratified her every wish, although, having cared nothing for her in the be ginning, it is doubtful if he cared any more for her in the end. The end came after 18 years, when Mrs. Thornton was killed in a railroad collision and her husband was left with four children on his hands; rude, noisy, illfaring cubs, as all the neighbors said. If Mr. Thornton had ever impatiently chanced to think that his punishment had lasted long enough, he thought how it was just beginning, when he found himself alone with those chil-

the bantams were quite grown people. somebody dropped over the fence a pair of big black Cochins, that stalked about as if the earth was too good to tread on, or as if they were afraid

of crushing a bantam with the next Cochins came from-for nobody else in town had any-but no one said a word. Only it was sport the next day to peer round the corner and see Aunt Helen, with a plece of bread in ber hand, in doubt whether to have any thing to do with those fowls or not. twice extending her hand with the crumbs and snatching it back again. and at last making one bold effort, and throwing the whole thing at them, and hurrying into the house. But from that moment the ever-hungry Cochina seemed to regard her as their patron saint. She never appeared but they came stalking gingerly slong to meet her, and at last one made so bold as to fly up and perch on the back of her chair, on the plazza. Of course he was shooed off with vigor-with a little more vigor perhaps because Mr. Thornton had at that moment been passing. and had seen this woman who would never keep bens presenting the tab-

It was two or three days after that, that Aunt Helen, coming home at twilight from one of her rambles by the river bank, was observed to be very nervous and flushed, and to look much as if she had been crying.

tea-bell, I fancy. However, Mr. Thorn-"It's all right," said our Ned, coming in shortly after her. "I know all ton might have found that it wasn't so about it. I've been setting my eel easy to range the young people on his side, if he had made a long-continued traps; and what do you think-she met effort. We enjoyed a romance under old Thorntonour eyes, but we had no sort of potion

"Ned!" "She did, indeed. And what'll you say to that man's cheek? He up and

spoke to her." "Oh, now, Ned! Before you!" "Fact! Before me? No, indeed; I ay low," said Ned, with a chuckle. "But bless you, they wouldn't have seen me if I had stood high." "For shame, Ned! Oh, how could you-and Aunt Helen!"

"Guess you'd have been no better in my place," said the unscrupious boy. "But there, that's all. If I could listen, of course you can't." "Oh, now, Ned, please!" we all chor-

ming full of a glory of motes from used together. John. It was a flock of the hens and "Well, then. He stood straight bechickens on their accustomed roosts.

fore ber. "Helen,' said he, 'have you torgottel me?' and she began to turn white, 'I have had time enough,' said

the big, black Cochin also gone to "Oh, you ought not to have stayed. roost, but separately-and his wife be-Ned!"

side him? No, but little Mrs. Ban-"You may find out the rest by your learning," said the offended narrator. | tam!

utation in his specialty. water-cracker, a supply of which she His wife, however, is quite as good always carried about her nowadays.

at geometry as he, and wherever they so their chief topic of conversation is the hobby of both-geometry. The lines on the card described some geometrical problem, and the discussion was over the best way to solve it.

"They go on awful sometimes," the conductor explained. "They get so excited over their hypothenuses and angles and such that they forget where they are going, and if I don't happen to know where they want to get of they will sometimes go half a dosen blocks by."

Perfectly Natural.

on?

"Well, and how does my son get

"He is one of the best students at school, sir," replied the teacher. "I have no complaints to make on that score."

"That was the way with me when I went to school. I'm glad he is taking after his father."

"But he is very unruly at times, Mr. Hardcastle, and frequently has to be reprimanded for fighting."

"Well, I suppose it is natural that he should have some of his mother's striking characteristics."

The Plodder Wins.

I have often met the fellow (So have you!) Who proclaimed in accents mellow What to do. But whene'er we sought assistance In a task that took persistence He'd forgotten our existence-Sad, but true! Many preach who never practice. As of old,

And the unpoetic fact is We were "sold."

Just dispense with airy graces;

And the gold! -New York Press.

A Negro and English.

You are almost an octogenarian sah." said the semi-educated, young, yellow negro, pompously. "Wha-what's dat yo' says?" snapped the venerable but unlettered darkey. "I specified, sah, that you are almost an octogenarian."

"Well, don' yo' do it ag'n, boy, og I'll done bust yo' head wid my stickyo' heads my prognostification?"

A woman who was lately divorced is quoted as saying: "There are too many men in the world to be unhappy with one of them."

Ever remark how timidly and he tatingly a bald-headed man takes of his bat?