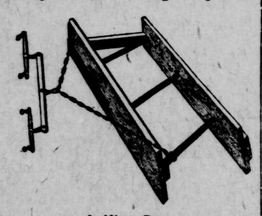
# FARM AND ROAD IMPROVEMENT

## HOW AND WHEN TO USE DRAG

**Successful Operation of Implement Involves Two Principles—Both Must Be Understood.**

(By W. D. KING.)

The successful operation of a road drag involves two principles, which, when thoroughly understood and intelligently applied, make road working with this implement very simple. The first concerns the length and position of the hitch, while the second deals with the position of the driver on the drag. Each influences the other to a large extent, and successful manipulation of the drag is dependent



A King Drag.

upon an understanding of both of them.

For ordinary purposes the snatch link or clevis should be fastened far enough toward the blade end of the chain to follow the team at an angle of 45 degrees. This will cause the earth to move along the face of the drag smoothly and will give comparatively light draft to the team, provided the driver rides in the line of draft. Sometimes, however, conditions are met which require special treatment, and in a rolling country such conditions are not infrequent. Often a flat place several rods in length or a seepy spot needs special attention.

The distance from the drag at which the team is hitched affects the depth of the cutting. Shortening the chain tends to lift the front slab from the ground; a longer hitch causes the blade to cut more deeply. The length of hitch may be regulated by lengthening and shortening the chain at the end which runs through the hole in the blade end of the drag. If small weeds are to be cut the doubletree should be attached rather closer to the ditch end of the drag. The drag will now move nearly ditch end foremost, and the driver should stand with one foot on the extreme forward end of the front slab. This will swing the drag back to the proper angle and will cause the blade to plow.

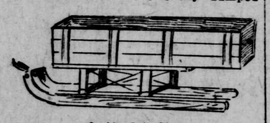
The drag does the best work when the soil is moist, but not sticky. The earth then moves freely along the faces of the slabs. If the roadway is very badly rutted and full of holes, it may be well to use the drag once when the ground is slushy. This treatment is particularly applicable before a cold spell in winter when it is possible to have a roadway freeze smooth.

## HAULING MANURE IN WINTER

**Sled Shown in Illustration Is Better Than Bob-Sled, but Poor Substitute for Spreader.**

It is sometimes difficult to get manure out to the field in winter, and then a sled comes in very handy

If it is balanced on a short frame, the contents can be easily dumped



A Useful Sled.

in piles as wanted. It is much better to have a sled of this kind, and for this purpose alone, than to use the bob-sleds which are generally in use. Of course this is a mighty poor substitute for a manure-spreader, but it is better to use it and get the manure out in the fields, than to allow it to run to waste near the barn.

### Repairs Are Necessary.

There isn't a machine used on the farm but what some day is going to need a repair. The manufacturer knows from his years of experience what repairs are most apt to be needed. It is good advice that in buying any piece of machinery of any material importance, you write to the manager of the repair department of the company who manufactures that machine, ask him to make out a list of the parts which are most apt to break, look over the list carefully, think whether or not you will be able to toggle them up in case they break, and then make a judicious investment in at least a few of those which are most likely to break.

### Best Seed Corn.

The best seed corn is that grown on one's own farm. In selecting it remember that next year's corn will be like the type you select for seed. In curing seed corn remember that it will not grow if it freezes before being ied. Shuck ears when they come om the field and place in racks, or e up with strings so that ears do touch. A good place for drying or in an upstairs room air circ-

## THIS KIND OF FARMING PAYS

**Ohio Farmer Raises 163 Bushels of Corn Per Acre by Using Plenty of Manure and Good Seed.**

On a recent trip through northwestern Ohio instructors from the College of Agriculture, Ohio State university, met a farmer, Mr. S. A. Luthy of Swanton, who said that this last year he had raised 4,400 bushels of corn on 27 acres, or nearly 163 bushels per acre. He did not state how this corn was measured, says the American Cultivator. When asked to tell how he had produced this big yield he said: "Plenty of manure and fertilizers, good seed, good drainage." He keeps a herd of registered Holstein cows, and all the manure is kept under a shed and well tramped down to prevent burning until ready to be hauled out. Raw rock phosphate is used to reinforce the manure and add phosphorous to the land. The seed corn was plant-selected in the fall and stored in a well-ventilated room without artificial heat. When tested last spring it showed perfect germination, and it gave what Mr. Luthy called "a perfect stand." This, he claimed, had a great deal to do with the big yield. His land is well drained, having lines of tile four rods apart all over the farm. Four-inch tile is used, placed from three to four feet deep. From his conversation it was gathered that Mr. Luthy was putting into practice the teachings of the college of agriculture.

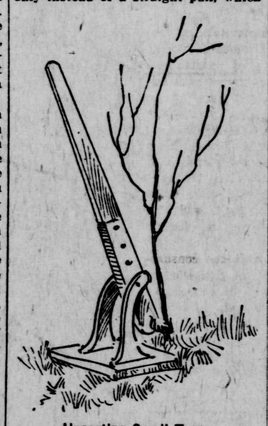
## GREAT AID TO THE GRUBBER

**Virginia Man Has Invented Implement With Powerful Lever Which Is Quite Effective.**

(By W. B. LENTZ.)

If there is any way on earth by which grubbing can be made easy, we have never heard of it, but the following will help some. We know of no harder work than grubbing up bushes and trees.

A Virginia man has invented an instrument with a powerful lever, which has been found on trial to be quite effective in uprooting small trees. It acts a good deal as a dentist's forceps, only instead of a straight pull, which



Uprooting Small Tree.

the dentist uses, it gives a side pull, by the use of a long handle forming the lever. The arm is rigidly attached to the base and the arm has at the end a strong jaw, capable of withstanding a great strain. On the end of the lever is another jaw co-operating with the first. The instrument is thrust close to the roots of a bush, the stem of which is seized between the two jaws and a pull on the lever brings it up by the roots.

### When to Transplant.

When a nursery is perfectly dormant and has shed its leaves, or is about ready to go into its dormant condition, it is ready for transplanting. In fall planting a rapid growth during the mild weather of mid-autumn takes place to considerable extent. Especially in the south, trees may actually become rooted and the wounds heal before cold weather sets in. From the standpoint of practical management fall planting has many advantages; it puts this work out of the way of the spring rush, when there is more work on the farm than can be turned out. When the planting is properly done and the trees are not injured by cold, they are ready to start into the growth at the beginning of spring, often before it is possible to get on the ground for spring planting. Under average conditions, therefore, the fall planted tree will live better and make more growth than the spring planted tree.

### Fine Roads in Europe.

The fine country roads to be found in most parts of Europe are the delight of American tourists.

## GOOD ROADS & FARM NOTES

Good seed selection means better products and better prices.

Single crop and grain farming must be replaced by a diversified system.

Probably the great majority of soils will not be benefited by an application of lime.

The cow, the pig and the hen are a great trio that can scarcely fail to bring success.

There is only one sure way of determining whether a soil needs lime, and that is by trial.

The three essential fertilizing constituents of soils are nitrogen, phosphoric acid and potash.

In applying lime to soils it should be remembered that not all soils are benefited by such applications.

Do not ...anure around the barn and do n... be fields. Spread ... taken out.

# Woman Her Home, Her Interests.

### A Clothes-Pin Party.

A mother of a twelve-year-old daughter was at a loss just how to entertain for her. The doll and playing at house and "Come to See" period was past and she was too young for a card party, so her clever brain evolved the clothes-pin party, which I am about to describe.

The invitations were written and folded, held fast by a wee gilded clothes-pin and delivered by an obliging young brother. When all had arrived, a big basket of ordinary clothespins was placed in the middle of the room and all were told they could have ten minutes in which to build a block house on the floor, following these instructions, which the mother read aloud:

Start the house foundation with two clothespins laid down parallel and sufficiently far apart for two more clothespins to bridge over the intervening space. Be sure to place the clothespins so that they rest on the open edge of the prongs and lie steady, for the round edge is apt to roll and slide.

Lay the second two pieces across with their ends on the first two pins. Build up the lower part of the house in this way, eight layers high. The upper part of the building will need longer logs, which may be made by taking two pins and fitting the prongs together; with these cross the top of the house so the edge projects an equal distance on both sides. After the four logs are adjusted proceed with the second story the same as the first. Use all long logs and continue until it's ten "pins" high, then make a brown paper or pasteboard roof.

Next take clothespins, dress them like "early settlers" and see how good and lifelife they appear. Plenty of black, white and colored tissue paper must be provided, and paste, scissors and thread. Prizes awarded for the best little men and women manufactured by the young artists.

The table centerpiece was a clothes-... house in a yard with miniature ..." figures; small trees, animals and chickens completed this most realistic scene. The napkins were pinned together with gilded "pins," the name card tied to the top.

### Confectionery Contest.

Try this "sweet" contest the next time you want something amusing yet not too difficult. For prizes use candy in odd boxes. What candy would be purchased by a:

1. Lover (kisses).
2. Schoolmaster (stick candy).
3. Negro (chocolate drop).
4. Flatterer (taffy).
5. Coiner (mint candy).
6. Pickle manufacturer (spice).
7. Minister (divinity fudge).
8. Milier (barley sugar,
9. German (sauer kraut candy).
10. Dentist (gum drop).
11. Pugilist (jaw breaker).
12. Shoemaker (shoe strings)).
13. Dairy-maid (butterscotch).)
14. Calendar designer (date candy).
15. Cranberry picker (marshmallows).
16. Milkman (cream candy).

MADAME MERRI.

## IN VOGUE

Expensive afternoon gowns are trimmed with large quantities of rich lace.

Rich velvet corduroys will make many of the most fashionable tailored suits.

White lace waists will undoubtedly have a great vogue throughout the winter.

Ostrich feathers are dyed in every modish shade—green, red, gray and the like.

## DAINTY FANCIES FOR THE CHILDREN

This picturesque little smock worn by the boy on the left is of white shantung, embroidered in jade floss silk and outlined with French knots. On the right is a dainty cap of dewdrop chiffon, edged with tiny moss-rose buds, and with a frill of Valenciennes lace. In the center the child is wearing a Liberty velveteen dress made in one piece with a tasselled yoke in Berlin canvas embroidered in red, blue, and yellow wool. In the dress worn by the girl in the left-hand corner, the chief features are the gauged Magyar sleeve and the tablier overdress of green cashmere embroidered in floss silk. The underdress is a pale shade of green Liberty silk. The little dress on the right is of nattier blue satin charmeuse, with a folding bodice buttoning on to the embroidered waist belt. The chemisette and sleeves are of the palest blue crepe de chine.

### Simple Frocks for Girls.

Embroidery plays an important role in some of the chic little evening frocks, but it is most often in self-color and has no touch of gorgeousness such as is shown in many of the embroideries for older folk. A little crystal or gold or silver is admissible, but nothing striking or elaborate.

A delightful little frock of the palest of pink tulle was made up over a pink silk foundation. The tulle was sprinkled with crystal dewdrops. The only trimming was ruches of tulle trimming the lace fichu and bands of lace trimming which edges the ruffle on the skirt. At the right side of the frock at the waist line there was a large black bow edged with a plaited frill.

### For Flowers.

...w growing ...tter how ...other ...be

on them, from Westminster Abbey, in London, to the Independence Hall, in Philadelphia.

The jugs are low and broad and have wonderful coloring. They come in purple, in green and in brown, and sell for reasonable prices.

### Muff Cords Again.

Some years ago it was the fashion to wear the muff hung from the neck by a cord, ribbon or chain. It is likely that this fad will return this winter.

The muff suspended from the shoulder by a thick tasseled silken cord is the latest novelty at the furriers'.

Carried in this fashion the muff suggests one of the enormous aumoniere bags which were the fad of the moment a season ago. When worn with an evening wrap the muff, made en suite with the cloak, is suspended from the wrist by platted satin ribbons

## IN LESS STRENUOUS TIMES

**Explanation of the Difference Between Domestic Standards Now Those of Long Ago.**

In the Woman's Home Companion there is an intersting presentation of the difference that exists between the domestic standard of young married women of today and those of the past generation. How did the women of the middle class of a generation or two ago manage when they could not keep help? Following is the answer quoted from a Companion editorial:

"They lived according to their means; they did not set up impossible standards, and they knew much less about the science of bringing up children. They had no special style to keep up; gave the children a weekly bath; kept the table set between meals; did not serve their meals in courses, but put all the food on the table at once; confined their social affairs to evening calls and parties, and church suppers, at which they wore the same black silk dress for at least two seasons; in short, every woman did only what she could, and her friends made it easier for her by doing likewise."


## PIMPLES SO DISFIGURING HE SHUNNED FRIENDS

"I was bothered with pimples and blackheads in the worst way for over four years. My face and arms were completely covered with them. The pimples would come out on my face and fester all up. They would scab over, and make my face sore, besides being so disfiguring that I shunned my friends. I tried facial cream balms and benzoine with no effect.

"One night I asked a friend what was good for pimples, and he advised me to try Cuticura Soap and Cuticura Ointment which I did. I would wash my face first with hot water and Cuticura Soap, and then put on some Cuticura Ointment, let it stay on five minutes, and then wash my face again with the Cuticura Soap. It would draw the blackheads out as nice, and the pimples, oh say, it was one grand relief to go among my friends and be jolly again. After using two cakes of Cuticura Soap and two boxes of Cuticura Ointment, my face is as smooth as if there never had been a pimple on it. I cannot speak too highly of the Cuticura Soap and Ointment, and I hope others will profit by them as much as I have. I know they will after giving them just one trial." (Signed) Arthur E. Caswell, R. F. D. No. 2, Portsmouth, N. H., May 6, 1911.

Although Cuticura Soap and Ointment are sold by druggists and dealers everywhere, a sample of each, with 32-page book, will be mailed free on application to "Cuticura," Dept. L, Boston.


### Eager to See.

"I have a poem here entitled 'Alone with Nature,'" said the sallow young man with the long hair and the frayed trousers. "It is a personal impression."

"Is it?" replied the editor of the Chicago Record-Herald, as he hastily glanced at the opening lines. "Have you ever been alone with nature?"

"I have, and, oh, it is glorious—glorious!"

"Here's a dime. Get on a trolley car and ride as far as you can. Go back to nature and spend another hour or two alone with her. You say you plucked the hazel blossoms by the stream. If you are able to find any place where you can do that let me know. I want to watch you while you do it."

### "And Again My Brethren."

A certain small girl, wearily listening to a long sermon by a renowned cleric who had an odd habit of drawing in his breath with a curious whistle, whispered to her mother that she wanted to go home. The mother, expecting the discourse to end momentarily, refused permission. The third time this happened the mother murmured in the child's ear that the preacher would soon stop now. But the child, nervous and despairing, answered her in a high falsetto:

"No, mother, he is not going to stop. I thought so now for three times, but he has gone and blowed himself up again!"

### The Boy—The Girl.

He—Crime seems in a pretty low way. Only last week some woman kidnaped a baby—photographs of it in all the newspapers.

She—What did she take it for?

He—Nothing else to take, I suppose. I should have thought myself that anybody who kidnaped a baby would steal an earthquake or borrow an attack of Asiatic cholera.

She—Babies are not so bad as all that. The only thing I have really got against them is that if you leave them long enough they grow up into human beings.

### Self-Evident.

Louis N. Parker, the playwright, has a ready wit, as was demonstrated at a supper party the other night. Parker's neighbor, a famous actress, nodded toward a pretty girl at the next table and said: "Don't you think she's awfully young to wear such a decollete gown?" "Well," said Mr. Parker, "she certainly is a stripling.'

### A Fright.

"Lady," said Meandering Mike, "would you lend me a cake of soap?"

"Do you mean to tell me you want soap?"

"Yes'm. Me partner's got de hiccups an' I want to scare him."

### Why They Scout.

Mrs. Forward—And so two of your sons are Boy Scouts? Where do they do their reconnoitering?

Mrs. Howard—In our refrigerator. —Life.

There are two kinds of suffragettes—the unhappily married and the unhappily unmarried.

...en the high flyer has to come ...rth sooner or later.


# MILLIONS of FAMILIES are using SYRUP of FIGS and ELIXIR of SENNA

FOR COLDS AND HEADACHES, INDIGESTION AND SOUR STOMACH, GAS AND FERMENTATION, CONSTIPATION AND BILIOUSNESS, WITH MOST SATISFACTORY RESULTS.

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CALIFORNIA FIG SYRUP CO.



THE ONE TO BE PLEASED.

De Jaw—No, we never have roast pork at our house any more.

De Paw—Why, I thought you were very fond of it?

De Jaw—So I am, but my wife's pet dog won't eat any of it at all.


### Swallowing Glory.

The little daughter of a well-known Baltimore clergyman recently startled the family while at breakfast by suddenly exclaiming:

"I'm full of glory!"

"What on earth do you mean, child?" the father hastened to ask.

"Why," exclaimed the youngster, "a sunbeam just got on my spoon, and I've swallowed it."


TO DRIVE OUT MALARIA AND BUILD UP THE SYSTEM

Take the Old Standard GROVE'S TASTELESS CHILL TONIC. You know what you are taking. The formula is plainly printed on every bottle, showing it is simply Quinine and Iron in a tasteless form, and the most effectual form. For grown people and children. 50 cents.


### Before the Scrap.

"Why are you rushing around so today?" "I'm trying to get something for my wife." "Had any offers?"—Louisville Courier-Journal.


For COLDS and GRIP

Hicks' CAPUDINE is the best remedy—relieves the aching and feverishness—cures the Cold and restores normal conditions. It's liquid—effects immediately. 10c., 25c., and 50c. At drug stores.


### Looking Upward.

(In 1999)—"Marie, bring out the aeroambulator, and take baby up for an airing."—Judge.


Thousands of Consumptives die every year. Consumption results from a neglected cold on the lungs. Hamlins Wizard Oil will cure these colds. Just rub it into the chest and draw out the inflammation.


### High Aim.

"Let us endeavor so to live that when we come to die even the undertaker will be sorry."—Mark Twain.


TO CURE A COLD IN ONE DAY

Take LAXATIVE BROMO Quinine Tablets. Druggists refund money if it fails to cure. E. W. GROVE'S signature is on each box. 25c.


The trouble with a good bit of reform is that it is badly in need of reforming.


Mrs. Winslow's Soothing Syrup for Children teething, softens the gums, reduces inflammation, allays pain, cures wind colic, 25c a bottle.


Some people get so accustomed to looking on the bright side that they can't see the other side at all.


ITCH, ITCH relieved in 30 minutes by Woolford's Sanitary Lotion. At Druggists.


There's a difference between being useful and being used.


Chest Pains and Sprains

Sloan's Liniment is an excellent remedy for chest and throat affections. It quickly relieves congestion and inflammation. A few drops in water used as a gargle is antiseptic and healing.

Here's Proof

"I have used Sloan's Liniment for years and can testify to its wonderful efficiency. I have used it for sore throat, croup, lame back and rheumatism, and in every case it gave instant relief."

REBECCA JANE ISAACS, Lucy, Kentucky.

SLOAN'S LINIMENT

is excellent for sprains and bruises. It stops the pain at once and reduces swelling very quickly.

Sold by all dealers.

Price, 25c., 50c., $1.00

Sloan's Treatise on the Horse sent free. Address Dr. Earl S. Sloan Boston, Mass.



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Purely vegetable—act surely and gently on the liver. Cure Biliousness, Headache, Dizziness, and Indigestion. They do their duty.

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Genuine must bear Signature

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Brown's Bronchial Troches

Effective for Coughs and Sore Throat. No opiates. Sample free. JOHN I. BROWN & SON, Boston, Mass.



DROPSY TREATED. Give quick relief, usually remove swelling and short breath in a few days and entire relief in 15-45 days, trial treatment FREE. DR. GREENE'S SONS, Box A, Atlanta, Ga.



"HOW TO GO ON THE STAGE" A $50.00 course for $1.00. 20,000 sold last 3 months. Send for one today. Alex. Frank, 479-481 Broadway, Bayonne, N. J.



PATENTS Watson E. Coleman, Washington, D.C. Books free. Highest references. Best results.



W. N. U., BALTIMORE, NO. 3-1912.



Women's Secrets

There is one man in the United States who has perhaps heard more women's secrets than any other man or woman in the country. These secrets are not secrets of guilt or shame, but the secrets of suffering, and they have been confided to Dr. R. V. Pierce in the hope and expectation of advice and help. That few of these women have been disappointed in their expectations is proved by the fact that ninety-eight per cent. of all women treated by Dr. Pierce have been absolutely and altogether cured. Such a record would be remarkable if the cases treated were numbered by hundreds only. But when that record applies to the treatment of more than half-a-million women, in a practice of over 40 years, it is phenomenal, and entitles Dr. Pierce to the gratitude accorded him by women, as the first of specialists in the treatment of women's diseases.

Every sick woman may consult Dr. Pierce by letter, absolutely without charge. All replies are mailed, sealed in perfectly plain envelopes, without any printing or advertising whatever, upon them. Write without fear as without fee, to World's Dispensary Medical Association, Dr. R. V. Pierce, Prest., Buffalo, N. Y.

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