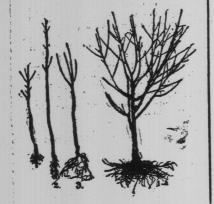
POOR DOCUMENT

THE SEMI-WEEKLY TELEGRAPH, ST. JOHN, N. B. APRIL 26 1839.

ROOT PRUNING. A Timely Article Upon the Practice

a Northern Climate by Prof. J.

Troop of Indiana. In our earlier days we were taught that it was one of the essential require-fnents to success in transplanting trees to save all of the roots possible so that the feeding capacity of the tree might not be lessened more than was absolutely necessary. The subject of plant physiology was but little understood. The ability of the piant to form new tissues where needed and to adapt itself to surrounding conditions generally had not been stud-ied to any great extent. Soon after Mr. Stringfellow of Texas made public his theories concerning close root pruning, a four the tree of the tree might not the fease of the subject of plant physiology was but little understood. The ability of the piant to form new tissues where needed and to adapt itself to surrounding conditions generally had not been stud-ied to any great extent. Soon after Mr. eories concerning close root pruning, a few years ago, a number of experiments



EFFECT OF ROOT PRUNING ON ST. JOHN PEACH.

1, 2, 3 trees ready to set April, 1896. is No. 1 after growing one season. . 2 and 3 had died.

Horse Power Frem Old Reaper.

HORSE POWER FROM OLD REAPER.

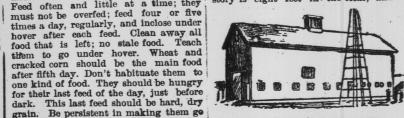
were immediately set in motion with the view of testing the truth or falsity of these theories, which, in some respects, were in direct conflict with the teachings of Downing and other noted horticultur-ists. The results of some of these experi-ments have already been published, but the most of them have been carried on in the south where the conditions are different from those in the north. In a recent illustrated bulletin from the Georgia experimental station the subject is set forth considerable d tail, giving the results of a series of • periments, mostly with the peach, which cannot help being very useful to the southern fruit growers at

In order to test this question for a more northern climate I began some ex-periments in the spring of 1896, by securing from the nursery four trees, as uniform in growth as possible, of each of the following regime and particles. Gar the following species and varieties: Ger-man prune, Early Richmond cherry, Flemish Beauty pear (standard), Duchess pear (dwarf), St. John peach and Orange end of the tumbling or driving rod of the horse power. No. 7 is a brace. and on it is fastened a roller which rides on pinion quince Two trees each of these varieties were pruned so that not more than an inch or two of the roots remained and the tops were cut back as shown in the illustrations. The other two were planted as trations. The other two were planted as they came from the nursery, except all ragged, broken ends of roots were cut off. The trees were photographed before plant-ing and again after they had grown a single season. The result of this experi-ment showed a wide difference in the ability of different varieties to adapt themselves to this severe method of pruning. For example, the peach began to throw out its feeding roots almost imme-diately, and while two of the trees died from other causes, the one that remained made a magnificent top and root system as well. The dwarf pear made perhaps the fintherefore more profitable. With mineral fertilizers it is different. These are usual-The dwarf pear made perhaps the inf-est root growth of any. Starting in the spring, with nothing but a bare stub, at the end of the season there was a com-plete mass of fine feeding roots which could have been able, another season, to push the top along at a rapid rate. The standard pear made a fairly good growth, are did less the Garmen runne, but the fertilizers it is different. These are usual-ly applied to grain crops, for which dressings of 150 to 250 pounds per acre are usually sufficient for the crop, besides leaving some to be taken by the clover after it. These mineral fertilizers so soon become insoluble in the soil that it does not not to apply them in large empirity. as did also the German prune, but the Early Richmond cherries did not seem to take kindly to the harsh treatment, and one of them died, while the other barely made enough roots to sustain life. The quince made no growth at all, which

MODEL DAIRY BARN. INCUBATOR CHICKS. How to Take Care of the Little Things A Very Roomy Cow Mansion Built by a Well-Known Wisconsin Dairyman-After the Hatching. Take chicks from incubator as so Dimensions and Construction.

C. I. Morrison, the well-known dairyman of Jefferson County, Wisconsin, in compliance with a request from the editor of Hoard's Dairyman, sends that paper a photograph and ground plan of his dairy barn which he built last sum-mer, and which, with the specifications,

are herewith reproduced. The size is 32x88 feet, with 26-foo posts; also a leanto 16x48 feet. The first story is eight feet in the clear, and is



C. I. MORRISON'S DAIRY BARN.

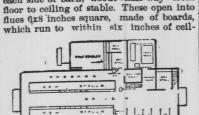
dark. This last feed should be hard, dry grain. Be persistent in making them go under the hover, from the first, until they learn that it is a mother to them. Never let them become chilled by huddling in corners outside of hover. A chilled chick will generally die of bowel trouble. If front end ton of browel trouble. If used for stables, etc., as shown in th plan. The upper story is used for hay and fodder, except two feed bins 10x10x12 feet, each one on each side of the place where we drive in to unload hay, etc. Also water tank in loft 6x6 feet, holding front and top of brooder are made of glass, the sun will blister the chicks

when it shines hot, and give them bowel complaint. When they huddle in corners, it is too hot or too cold. Carry out these directions for a week or ten days and you about 35 barrels. To unload the hay, we drive into the door shown at the end of the barn, and the hay is elevated to the track at the top of the barn, which carries it where want-ed. We use a returner on the car, which, will have no further trouble. You can then let them out, but make them all as the load is discharged, brings fork back to the load, without the hard work come in early every evening for a few days. Keep dry grain in a trough in the brooder, to induce them to return.—Ohio Farmer. of the old way. The space where we drive in with load

Ine space where we drive in with load is raised even with top of door 13x18 feet, which space is covered with trap-doors when not in use. The frame of the barn is a combination of the plant and large timber form

As several have asked for plan convert-ing an old reaper into a horse power, I send you a sketch of one I have frequentof the plank and large timber frame. Barn is covered with drop siding and lower story is lined with building paper and matched lumber. The doors are made double and the one shown at the and of the horn 19718 theorem inside ly seen used for cutting oat sheaves, corn, etc., and pulping roots by one horse. The following are the parts of the power: No. 1 is the drive wheel of an old reaper. The cogs inside the wheel near end of the barn, 12x13 feet, has an inside door hung on pulleys and balanced by the rim run 3, which is on the same two weights which raises door out of way shaft as 4, and bevel cog-wheel 4 meshes with bevel cog-wheel 2, which is on the when not in use.

In ventilating the stable, we have six openings seven inches square, three on each side of barn, about half-way from



CHILDREN'S COSTUMES. Gowns For the Use of Little and Big Girls.

Large girls are dressed in very much the same fashion as their newly young ladyfied sisters, the difference often consi ing solely in the length of the skirt. A girl under 21 is always supposed to dress with simplicity, but the schoolgirl's costume must be as correct and free from With vagary as if she wore long gowns.

children, on the contrary, something a lit-

gowns of such elaborately decorated laborate require hardly any trimming, as orna-mentation would obscure the pattern. They are perfectly cut and fitted and are made preferably in the princess style, that fashion allowing the largest unbroken surface of goods surface of goods.

The usual navy or Yale blue silk with white designs is seen in more profusion than ever this year. It has been worn for

open mouth of the head.

For the theater little hats entirely of flowers are made. Some are of primroses, others of violets, still others of lilacs. Toques of feathers are seen for street wear and are trimmed with flowers. Hats of mousseline de soie, puffed and shirred, are adorned with tulle, which composes a full lining for the brim—al-ways of another color than that of the mousseline de soie—and an aigret trim-ming for the outside mingled with flow

SILK PETTICOAT.

many summers, and, being very service-able and generally becoming, it seems to enjoy a permanent vogue. The designs are chiefly of an arbitrary character this time—broken lines, curves and geomet-rical suggestions, placed close enough to-black mousseline de soie is trimmed with black mousseline de soie is trimmed with white tulle and mauve orchids. Bonnets of jet, gold, steel and colored

NEW MILLINERY. Hats and Bonnets For the Theater and the Street.

White is much seen in spring hats, espewhite is much seen in spring has, spo-cially as trimming. Flowers are as large-ly used as they were last year, and water lilies, camellias, gardenias and magnolias are among fashion's floral favorites. The violet is not abandoned, however, and, small clusters are tucked into the diapha-nous trimmings of hats and bonnets and



SUMMER COSTUME. skins, with head and tail, which are still worn across the shoulders, are decorated with a bunch of violets fastened near the

For the theater little hats entirely of

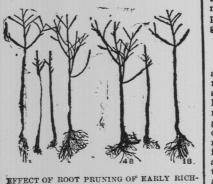
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Lovely Silks For the Up to Date Woman's Wear. It would seem that the silken fabrics produced during the winter could not be produced during the winter could not be surpassed for beauty, but certainly some of those just prepared for use appear to excel them. Upon white or delicately tinted grounds of moire antique or of gros-grain with a woven, self colored figure are thrown printed designs of a chine character of the most exquisite coloring and composition. The designs are foral

and composition. The designs are floral and seem to be melting into the fabric, so delicate is their coloring. Although the flowers themselves are not very large, they appear in large groups or garlands, some times forming a vague stripe. Of course gowns of such elaborately decorated fabrics

FASHION HINTS.

was probably due to other causes than the close pruning. It will be seen that these trees were all set out in the spring. I am of the opinion that the results would have been more that the results would have been more favorable to the system of pruning if they had been set out in the fall, as the out surfaces would then have had time to form the callus and be ready to send out their roots as soon as spring opened. In the autumn of 1896 two dozen Wealthy apple trees (three years old) were preple trees (three years old) were pre-red in a similar manner by close-pruning each alternate three. After growing



MOND CHERRIES.

Nos. 1, 2, 3, 4 are the trees ready to plant April, 1896. 1B, 2B, 4B are the corres-ponding trees after growing one season. No. 3 had died. two seasons these were taken up, and in

almost every case a fine root system was found on the closely-pruned trees; in ore of the fine, feeding roots than were found upon the others.

There is one point, however, which Mr. Stringfellow claims to be in favor of his close-pruned trees, the truth of which was not demonstrated by my experi-ments. He claims that a close-pruned. tree will send its roots down deep, almost perpendicular, in the subsoil and so anchor the tree more firmly to its place, while the tree not pruned will have most of its roots near the surface. My experi-ments show that nature asserts herself here as well as elsewhere. Some trees are naturally deep-rooted, while others are shallow, and it makes but little differ shallow, and it makes but indice ulther-ence, so far as that is concerned, whether they are close-pruned or not. It depends more upon the nature of the variety than upon the pruning.—Prof. J. Troop, In-diana, in Orange Judd Farmer.

Seen by a Cynic.

"What do you think of the adage that all is fair in love and war?" "Incomplete," quickly replied the cynic. "No mention is made of matri-mony, which invariably divides the spochs of love and war."

4, holding it down in place. No. 8 is a brace, which holds the bottom boxing of GROUND PLAN.

drive wheel axle. No. 10 is the frame, ten inches high. The arm, 11, is ten feet ing. This carries the fresh air into the long, and to it the horse is hitched. No. 12 is also ten feet long, and to it the top of stable and prevents draft on the long, and to it there is the feet long, and to it to the interview of the power.—E. Richardson, in London Farmer's Advocate. Interview of these openings. The outlets for the foul air are 20 If the openings. The outlets for the foul air are 20 If the openings. The outlets for the foul are 20 If the openings is the opening are 20 If the opening are 20 If the openings is the opening are 20 If the opening are 20 If the opening are 20 If the openin animals, also prevents the warmer air

Very few farmers have enough stable manure to fertilize all their lands as they In regard to cost, it is as follows: would like. The best thing for such farmers to do is to apply this stable man-ure mainly to the crops on which they expect to put the most of their labor. It

does not pay to plant, cultivate and hos poor land. Every addition of manure makes the labor more effective, and

This includes board of carpenters, etc., but does not count my work or team work and work of hired man hauling lumber, stone, sand, etc.

AN EXPERIMENT WITH SALT. A Bushel of Mangels for the Outlay of

Cent. An observant farmer the other day

become insoluble in the soil that it does! An observant farmer the other day not pay to apply them in large amounts. A small quantity each year, sufficient to make the crop it is applied to, is much better.—Prairie Farmer.

cast by hand on several rows at the rate of 250 pounds per acre of salt, at the cost of 90 cents, from which he secured an increased yield of 75 bushels of roots per Look at Your Plum Trees. Before warm weather comes all the plum trees should be looked over, and

same soil and climate as the trees will have when planted and buy from a nurseryman known to be practical, pro-gressive and reliable. Get healthy, vigor-ous stock, with strong vitality, well rooted, good cane or stalk, with branches in proportion to the roots. Apple trees

five cwts. per acre. Keeping the Udders Clean.

Unless great care is observed much dirt will get into the milk at milking time. will get into the milk at milking time. One of the easiest ways to keep the cows clean I have found is to cut the hair off the udder and around it with a small pair of barber's clippers. It is much pleasanter to milk to have this hair out of the way, and it also removes the great-est harbor for dirt and flith. Then if any dirt becomes attached to the udder or teats it is a very easy matter to wash it of and dry it without having a lot of dirty water remain to drip into the pail, which is the case when the hair is thick and long.—National Stockman.

hack is as a consequence again a Plaids and dotted or flowered goods are used, and there are exquisite corded dimities, with the tiniest possible figures in blue, pink or yellow, which make the

blue, pink or yellow, which make the daintiest of hot weather frocks, cool and easily laundered. A little child should have many of these, that they may be fre-quently changed; therefore simplicity of style is esseptial. They require little trimming, narrow valenciennes lace and some ruffles of the same material as the

GIRL'S COSTUME.

tle fanciful is desirable, lively opposition

of color and quaint forms being entirely suitable for little people while they are really little Plainness of design is always

in the best taste, and no style of making should be chosen which interferes with

the comfort or the free movement of the child Up to the age of 7 years the Mother Hubbard gown may be worn, although the old fashioned frocks having a skirt

and bodice sewed to a belt are now fashionably revived. The soft sash tied at the

The plaited chemisette is of white silk, the collar and ruche of red satin. The belt

is also of red satin, tied at the back with long ends. The hat of red grosgrain is lined with white silk and trimmed with coques of white silk. JUDIC CHOLLET.

WEDDING GOWNS. Hints For the Benefit of Expectant

Brides. The enormous vogue of mousseline de soie as a trimming and for entire gowns and bodices does not decline, doubtless be-cause it is so favorable to all complexions and has so soft and delicate an effect, no matter in what color it appears. Some of

are considered best for planting at two to flime, but its most important action is as a solvent, liberating necessary plant food. Being of an antiseptic characater, it tends to prevent rankness of growth age; standard pears should be two to three years old, dwarf pears, plums, peaches, currants, gooseberries and grapes, one to two years old.
The Muskrat Pest.
One of the worst pests about milldams and other embankments to hold water is the common muskrat. Thousands of dollars have been spent through New York to check the multiplication of this pest along the line of the Erie Canal. It is necessary with alt on mangels—it would be well in this country to have further trials this easy to trap the muskrat by placing a strong steel trap in his runways, and attaching it by a strong chain to a stake driven deep into the soil. It is necessary is also admissible. The better than the soil. It is necessary is also admissible. The better the in this country to have further trials this easy to trap the muskrat by placing a strong steel trap in his runways, and attaching it by a strong chain to a stake driven deep into the soil. It is necessary is also admissible. The better the second to the soil. It is necessary is also admissible. The better the in this country to have further trials this season by farmers and experimenters, the ease of beam to the trap frequentity. For the season by farmers and experimenters, the in this country to have shall gladly make ding gowns, but white moire or fleur de velours is also admissible. The better the quality of the material the longer the train may be, while if the goods are inexpensive the train must be short. The petticoat should be very long, but should have no train. The inside of the hem of the train is usually faced with scant ruffles of silk, monseline de soie or lace.

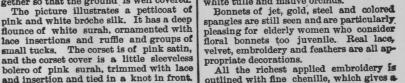
is usually faced with source there of the mousseline de soie or lace. A wedding gown of satin is shown which has a perfectly plain skirt. The bodice is close fitting at the back, but forms a blouse in front. There is a chemisstte, front and back, of plaited white mousseline de soie, outlined by a tiny gar-Big Profit in Rape. isette, front and back, of platter when mousseline de sole, outlined by a tiny gar-land of orange blossoms. The collar and belt are of satin, and a satin rosette is placed near the left shoulder, with long ends reaching almost to the foot of the blatt a grave of orange flowers depends skirt. A spray of orange flowers depends from the left side of the belt. The sleeves are plain, with flaring wrists. JUDIC CHOLLET.

The picture illustrates a petiticoat of pink and white broche silk. It has a deep flounce of white surah, ornamented with

A new fancy for covering gowns is the employment of black net over white silk or satin. The net is usually embroidered, and sometimes several thicknesses of mousseline de sole of different shades are interposed between the silk and the talk mousseline de sole of different shades are interposed between the silk and the tulle or net to give a changeable effect. These rainbow tints are peculiarly attractive un-der flounces of black chantilly. Large flowers are now worn in the hair with evening dress and are placed at each side of the coil of hair, high, up, or shore

side of the coil of hair, high up or above each ear, in the old fashioned style. Camellias, roses, dahlias, even peonies, are thus used.

The Louis Quinze coat is a charming garment and is favored for small dinners, receptions and teas. It need not be of the same material as the skirt, although the two should harmonize. The vest, over which it opens, is of different color, and both coat and vest are often embroidered. The revers are small. A cravat of lace or mousseline de soie and wrist frills of equal mousseline de sole and wrist initio e quar delicacy are essential accompaniments. Blouses are not well represented among spring styles, the close fitting, pointed bodice coming to the front once more in most costumes. The bolero, which had fallen into the background more or less, is again in evidence, many cloth costumes



small tucks. The corset is of pink satin, and the corset cover is a little sleeveless bolero of pink surah, trimmed with lace and insertion and tied in a knot in front. JUDIC CHOLLET. SPRING GOWNS. New Developments For the Coming Season. Network of the state of the season. New Developments for the coming Season.

delicately embroidered. The square guimpe is plaited. The tops of the sleeves are embroidered, and the belt and bow are of pink satin. The embroidered collar likewise has a pink satin bow. The little

Developments Seen at the Numerous "Spring Openings."

Wired ribbons and wired mousseline de sole serve a variety of purposes in milli-nery. Not only do they compose alert looking bows, but they are twisted into the resemblance to large flowers-roses, hollyhocks, dahlias and even gigantic pan-sies. The resemblance to the floral origi-



nals is somewhat conventional, but never theless perceptible, and such decorations often given a very smart effect.

A novel how is made of points, or "ears," as they are called, of taffeta, finished at the edges with a tubular hem, which gives the edges with a tubular hem, which gives them stiffness. These are grouped to-gether in a full ruche, like overlapping leaves, with longer ones at the ends, where two jeweled buckles appear. Veils of lace, both white and black, are much employed as a trimming upon sum-mer hats, being often draped over flowers or about of mercelling the other flowers

or choux of mousseline de soie. Some-times short ends of the veil are allowed to

times short ends of the veil are allowed to droop upon the hair at the back. A lovely light, clear pink is largely used in models for warm weather mil-linery, and sometimes entire hats are made of it. It is more effective, however, when combined with white or black or

both together. Skirts with an inlet panel of different material or color are again in vogue, and bands of embroidery thus used are very

bands of embroidery thus used are very effective. Guipure over a silk or satin lin-ing is used in the same way. The picture illustrates a novel toque of russet yellow straw. A cream lace veil, bordered with a ruche, is draped around the crown, the ends being tied at the back, so as to rest upon the hair. In front are a pheasant's head and breast, with the crest, and around them are arranged points of turquoise velvet, with a knot of the same material. The collar is also of turquoise velvet and is trimmed with cream lace. JUDIO CHOLLET.

the top and wrist. The round hat of black straw is decorated with a long black plume, a bow of red satin and a gold buckle, JUDIC CHOLLET.

JUDIC CHOLLET,

BENGALINE GOWN.

darker tone. It comes down to the waist line and opens in front to show a yoke or

The illustration shows a costume of red the inustration shows a costine of red bengaline. The skirt has two circular flounces trimmed with bands of black satin. The pointed bodice is ornamented with black embroidery and has revers of black embroidery and has revers of black satin, which open over a cravat and jabot of embroidered white tulle. The close sleeves have bands of black satin at

being completed by a bolero of velvet of a

