THE FARM AND GARDEN.

TO TELL THE WEIGHT OF A HAVSTACE.

baystack an English authority says: Multiply the length of the stack by its breadth, and multiply the result by its height, all in feet, divide the product by twenty-seven, which will give the number of cubic yards; this multiply by six, if new hay; if oldish, by eight or nine, and the product will be the weight in In measuring the height deduct two-thirds of the distance in feet from the caves to the top.

PLANTING IN AN OLD ORCHARD. Orchardists have usually asserted that young trees would not thrive if planted in the same place where an old one of the same kind had grown and died of old age or otherwise, although nature has been replanting her forests in this way for many thousands of years. There is no good reason for supposing that an old apple tree leaves anything in the soil that should be injurious to a young tree planted in its place, and we would not hesitate for a moment to replace old trees of any kind with new ones. If the land is old and its fertility exhaused. fertilizers should, of course, be applied in sufficient quantities to insure a vigorous growth of young trees. It's an old theory that a new orchard should never be planted on the site of an old one, but does not hold good in practice .- New Fork Sun.

WHITEWASH FOR POULTRY HOUSES.

A capital whitewash is made by mixing common, water lime cement with When dry store in a cool, dry place. sweet, skimmed milk to the proper consistency. The following is the Government whitewash, and a fine whitewash it is: Put two pailfuls of boiling water in a barrel; add one half of a bushel of well burned, fresh quicklime; put in quickly one peck of common salt, disolved in hot water, and cover the barrel run tightly to keep in the steam while the lime is slacking; when the violent chullition is over, stir till well mixed together, and, if necessary, add more boiling water, so as to have the mass like do better set out now than to wait till thick cream, strain through a sieve or spring. Try it and see. coarse cloth. Make a thin starch of three pounds of rice flour and one pound of strong glue, having first soaked the glue in cold water, and to the latter mixture add two pounds of whiting. Add this to the lime wash, and also sufficient hot water to dilute to the proper consistency ; keep hot while applying. It will require You need not wait till the frost drops about six quarts of the mixture to 100 the leaves from currant and gooseberry square feet of surface, and it will last remarkably well. It goes without saying, that it may be made any color desired. Farm and Fireside.

KEEP THE COWS CLEAN.

With cows constant attention to the cleanliness of the skin is indispensable has been accumulating during the sumto the purity of the milk. These animals mer. generally escape jujury to health from causes which would be fatal to other animals because the poison is carried off with the milk. And in dairies where cleanliness is not observed as it should be the evaporation from the milk, which collects on the covers of the pails in which the milk is set for cream, or which may be gathered upon a sheet of glass laid over a shallow pan of milk freshly drawn from a cow, will deposit a quantity of liquid of an intolerably foul odor. If one will test the milk of cows kept in filthy stables, and upon whose sides filth is permitted to collect in adherent flakes, in this way, the foulness will be very ap-parent. This odor has been called sometimes the animal odor and has been thought to be inseparable from the cow. This is wholly untrue. It is the odor of flith, which has every characteristic of manure, and which is discharged with the thorough drainage of the cultivated the milk because it could not escape land be accomplished. through the skin, which is the natural

mutlest for it and by which it would escape freely and imperceptibly if the skin were kept clean and in healthful action by means of thorough carding and brushing every day .- New York Times.

firms have printed circulars containing directions, which are sent out on written To ascertain the approximate weight of application. Whenever practicable, ship Upon an oak tree, grand and tail, A clinging grape-vine hung. While from the far outspreading boughs Grant purple clusters swung. No daring hand had ever reached When the second had had ever reached chickons, ducks, turkeys, etc., in sepay its rate packages. In sending poultry for its the holidays endeavor to have your shipments reach their destination three or Where topmost branches played, So high in air the ripened fruit In tempting beauty swayed. four days in advance. Bear in mind that the big demand for fine, large turkeys comes at Thanksgiving, and that One day the vintage master paused Within the checkered shale. Which high upon the oak tree's bough The swinging clusters made. Across the greenward's even floor With bright leaves thickly spread, Old Autumn's tribute levied on The branches overhead. prime geese catch the fancy prices at Christmas. Soon after January prices go up again. Capons meet a good market from the 1st of February on until

sion merchant for instructions. Many

about Easter .- New York World, FARM AND GARDEN NOTES. Dou't your well need cleaning? Choose a cool day for picking apples. Keep right on cultivating the strawberry patch.

Fight weeds, briers, etc., until they case growing.

Now is a good time to make mutton as well as pork.

Put implements under cover as soon as done using them.

graces, Their future work must be To scatter broadcast o'er the earth The seeds of misery, -Susic E. Kennedy, in Temperante Banner. For permanent pasture, timothy does not do well alone.

The best egg-maker is good food. Feed the hen no other. The same fence should not enclose a

young orchard and cattle. Get your ground ready for those trees

you mean to set out this fail. Save seed from any novelties that have proved satisfactory with you.

Harvest the onions as soon as ripe. Black cap raspberries do better set out

in the spring. Put others out this fall. Stop cultivating the grape vines. The wood must be given a chance to harden.

Put no "wind falls" in the barrels of No. 1 apples. It will pay in the long

bushes before making cuttings.

or be found in his neighbor's lot.

a crop he scratches his land, and the

Don't let any green tomatoes go to

harder he scratches the better the crop.

waste. Apples are scarce and green

tomatoes make excellent pies-are good

fried, are good several ways. Save

inay

you will.

If there is marsh hay near you get some in readiness for covering the strawberries.

Currant and gooseberry cuttings will

Begin your intense farming this fall by burning all the weeds about the place before they shell their seeds. . If you can put out some grape vines

this fall do not wait till spring, you may be crowded with work then.

AFRICA'S CURSE.

Where are the mower and horserake? Better have them housed to-day. They will be of better value next season if they While the corn is curing in the shock is a good time to get out the manure that By the way, do you make your wife an equal partner in the farm plans? She be the "better half" of the firm if Every farmer should look over his

farm often and examine his fences so that his stock will not destroy his crops When a man wants an idea, he scratches his head. When a farmer wants

SOME OF RUN'S WORK.

A few weeks ago a young man committed sulcide at the Osuorn House, Rochester. Up-on the table in his room was found the fel-lowing letter. It preaches a good temper-

"Rather than have opium and rum kill me, I prefer to do it mysel". I feel I am past redemptio, and why should such a model thing encomber the earth? I have abused and disquisted my friends; have fost my posi-tion with my house, have overdrawn my account soveral humaned dollars, and, in fact, chunct see a ray of light ahead? If I thought

PECULIAR INFATUATION. TEMPERANCE.

Different Methods of Following the Injunc-

<text><text><text><text><text><text> took the medicine as directed and am to-day a well man. I am sure no one ever had a worse case of kidney and liver trouble than I had. Before this I was always against pro-prietary medicines but not now, oh, no." Friendship expresses itself in very peculiar ways sometimes; but the true friend is the friend in need.

Grape Culture in America.

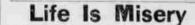
While we do not think it is at all probable that the grape will entirely fail in all parts of Europe, still, if it should, we think it quite possible that America alone would in a few years be able to meet the demand, however large it might be. There are vast regions of country in Arizona and in New Mexico where the foreign varieties of the grape will thrive as well as in California, now the great centre of the iadustry; while the cultivation of our native varieties might readily be extended a hundredfold the Eastern States. But should all the vineyards of the world and every grapevine be wiped out, we would move on about the same; for the vine and its products are not necessities, but merely luxuries which, doubtless, do fully as much harm as good .- New York Sun.

A Novelty in Bookbinding.

A novelty in bookbinding is announced in the employment in it of metal as a substitute for cardboard. A special preparation is first necessary, and the leather may be bent and straightened

again without perceptible damage, a course of treatment that would destroy cardboard covers. The metal is covered with any material that taste may dictate. and the finished book shows no difference in appearance, excepting in a greater thinness of the cover, which is always desirable .- Picayune.

The China Sea and the Bay of Fundy are the two roughest seas in the world.



To thousands of people who have the taint of sera-ula in their blood. The agonies caused by the dreat-ul running seres and other manifestations of taits disease are beyond description. There is no remedy equal to flood's surs quarilla for scrafula, sait rhoum and every form of dood diseas). We know that a has cured the severest cases and it will benefit all who give it a fair trial. Scrofula bunches in my neak disappeared when

)took Hood's Sarsaparilla."-A. R. KELLEY, Park raburg, W. Va.

Hood's Sarsaparilla Sold by all druggists. \$1; six for \$5. Prepared only by C. I. HOOD & CO., Lowell, Mass.

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equare.

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Ohio AMiss.Railway. 746 Dolphin Street. Office President and Baltimore, Md., Jan'y 18, 1890. General Manager. Cincinnati, Ohio "My feot anddenly turned and gave me a very severely sprained ankle. The application of St. Jacobs Oli resulted once in a relief from me." Wu.C. HARDEN "I was braised badly in hip and side by Prest, & Gen'l Man'gr. Member of State Legislature

THE CRADIES & VOCELES CO., Baltimore, Md Nothing On Earth Will

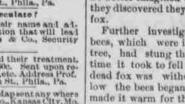
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<text><text><text><text><text><text>

and comfort follows the use of Syrup of Figs

druggists.



fox in a short time, and soon the hounds

were in full cry. The fox kept up for several miles and then, being hard pressed, took to a hollow tree in the woods. Axes were procured and the tree soon felled. The surprise of the hunters can be better imagined than described when they discovered they had captured a dead

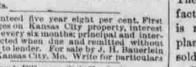
Further investigation showed that bees, which were in possession of the tree, had stung the fox to death in the time it took to fell the tree. When the dead fox was withdrawn from the holow the bees began to come after and made it warm for the hunters and their horses. They decamped as speedily as possible, some of them being badly stung. -New York Journal.

two of Dr. Pierce's Pleasant Pellets have done their work. You feel well, instead of bilious and consti-

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pated ; your sick headache, dizziness and indigestion are gone. It's done mildly and easily, too. You don't have to feel worse before you feel better. That is the trouble with the huge, old-fashioned pill. These are small, sugar-coated, easiest to take. One little Pellet's a laxative, three to four are cathartic. They regulate and cleanse the liver, stomach and bowels-quickly, but thoroughly. They're the cheapest pill, sold by druggists, because you only pay for the good you get. They're guaranteed to give satisfaction, every time, or your money

is returned. That's the peculiar plan all Dr. Pierce's medicines are sold on.

Can you ask more?



no excuse for a dirty house or greasy kitchen. Better clean them in the old way than not at all; but the modern and sensible way is to use SAPOLIO on paint, on floors, on windows, on pots and pans, and even on statuary. To be ignorant of the uses of SAPOLIO is to be behind the age.



The Been Won the Brush. Maryland hunters were recently the witnesses of a very singular occurrence during a fox chase. They started the fox in a short time, and soon the hounds Timber, Mineral, Farm Lands and Banohes a Missouri, Kanas, Texas and Arkaness oughtandsold. Tyler & Co., Kansas City, Mo



PLEASANT FOR THE PASSENGERS. When I was up in Northern Wisconsin the other day I saw something that caused chills to chase each other in rapid succession down my spinal column, and that made my hair (that is, the rim of hirsute growth that adorts the base of my skull) to stand erect. The train upon which I traveled stopped for dinner at a little water-tank station. Just as the train was about to pull out, a grimy-looking initividual staggered upon the plat-form and started to fail aboard. The con-ductor was a new man on the rim, but he PLEASANT FOR THE PASSENGERS. ductor was a new man on the run, but he duin' propose to allow the intoxicated indi-vidual to get aboard. "Look here?" shouted the conductor as the

sooty specimen went to get on. "You're too drunk to get on. Whoro's your ticket?" "Hav-haven't got any," stuttered the

DISGRACED.

He gianced up through the dancing leaves. As 'gainst the trunk he leaned, "Those grapes are nicer ones," he said, "Than any I have gleaned. I think, my beauties, I can find Some way to bring you down," And seen the pretty clusters lay Dismantled on the ground.

Their quiet, harmless life was o'er, For soon against their will They're tossed with others not so fair

Into the crusi still, Where, crushed and bleeding, sore dis-

RUSSIA'S POISON THAFFIC.

Not military depotism, not the knowt and the chain, not Siberia itself, has done so much to make the Russian Government the loathed and cursed enemy of its subjects as the Governmental protection of the poison-traffic. That alliance of tyranny and vice has made the tyrant the representative of a militical daril averaging and solve the solution.

has made the tyrant the representative of a political devil-worship supported only by bental force, and has morally releared his slaves from the duty of submission the mo-

ment insurrection ceases to be absolutely hopeless.—Felix L. Oswald, M. D.

"Hav-haven't got any," stattered the drunken fellow. "Then you can't get on." "Yesh I kin, you can't stop me. I'm the engineer of this train. There ain't no fresh conductor can put me off."-Milicaukee Evening Wisconsin.

<text>

Very often the surplus product of a farm can not be more profitably invested than by putting into under drains, till

WEIGHTING A WAGON. Ten years ago a man drew me a lond of hay in spring, roads very rough and muddy, and fully two-thirds of the load was on the forward wheels, because he wanted to give the team all the advantage possible, as the roads were so soft and the wheels cut in so." He was astonished that I should differ, and when I told others of my surprise I was dumbfounded to find nine out of ten agreeing with him. They "knew by experience" that the nearer the load to the team, the cast-iron thimble-axle moved a load over rough roads easier than a small steel composition. axle. After this I was led to notice A farmer a loaded wagons; one day I counted thirtyeight loads of grain in bags going to market, and not one of them was loaded heaviest behind, and such has been my observation everywhere. With potatoes the box is filled and the extra bags piled. on forward, also salt, nails, and such heavy goods are put forward, and the lighter and more bulky behind. I regard such loading as great a physical heresy as that the horse that lags behind does the most work. "It is true that the closer the load to the team the casier it will draw, "if it is a log on the ground,

but put it on wheels and be the roads smooth or rough, it makes little difference, and a long longue gives the team advantage on rough roads .- The Husbandman. 14

DRESSING AND SHIPPING POULTRY.

to preparing and shipping poultry for the swift steam railway. market we cannot do better, perhaps, Many projects for introducing steam than give the directions of one of the leading commission firms of New York to their patrons. They say: To insure ble or too expensive for adoption. The they highest market prices for poultry electric motor has been tried and found the birds must be well fattened; crops empty when killed ; nicely and well picked | The water power is there and costs noth and skin not broken or torn; thoroughly cooled, but not frozen. Pack in boxes soon become memories of the past. The with a layer of clean straw (rye straw is electric current can do without them .the best) between the layers of poultry in New York Telegram. the same posture in which the birds roost. Mark each box, specifying what it contains. Send invoice by mail. Ship to reach destination about the middle of the week-never to arrive as line as Saturday.

In New York city three is an ordinance home from South America a remarkably that specifies that neither chickens or tame parrot, which he introduced into the turkeys shall be offered for sale unluss drawing-room in a closely-covered cage. the crops are free from food. While He then asked his wife to sing something poultry for New York and some other for him, which she readily did, and was markets is seldom if ever drawn, that de- amazed to hear a voice from the hidder signed for Boston and other New Eng. cage say: "Bravo, Minnie Hauk! That land markum is relieved of the entrails is perfectly charming!" At her Swim bome the great singer is constantly surthat producers should learn previous to shopping just what their special market requires. This information may be obtained by writing direct to one's commis- huked .- New York Ledger.

Where thorough and clean culture has been practiced one can see how the crops lay hold of the fertilizers and are correspondingly larger. It pays to be energetic in fighting the weeds.

The size of the tile should be in proportion to the length of the drain and the amount of fall in the ditch. But the flooding of a drain tile depends somewhat on the depth to which it is sunk.

A correspondent of the Orange Judd Farmer complains that on his farm manure has been a detriment rather than a help to his crops. The number of farmers that have this experience is very small.

Flax seed that has been exposed in the field to the sun's ray's until it is dry to brittleness, still holds a latent moisture, easier it would draw, and that the large which will develop when the seed is confined in a mass and result in heat and de-

A farmer should take care to keep easy and safe ways of ingress and egress to his culitvated fields. More wagons are broken down by going through deep fur-rows or over ridges than by twice the travel on smooth highways.

It is time that western farmers were taking warning from the experience of their eastern brethern. When they are under the necessity of buying fertilizers to keep up the fertility of their lands they will sing a more doleful song than they do now.

Electricity for the Canals.

Electricians say that the canal will soon be a rival to the steam railway as far as freight is concerned. Of late years the canal has fallen away in popularity as a means of transportation. For the transportation of perishable freights the canal In reply to several queries in relation has been entirely abandoned in favor of

ing.

power on canals have been considered, but they have all been found impracticaadmirable. It saves labor as well as time, Horses, mules and tow paths will

A Great Singer's Pets.

Mme. Minnie Hauk is unusually fond of pets. At one time her husband, the Chevalier de Hesse-Wartegg, brought

count see a ray of light ahead? If I thought ny friends would put me in an asylum some-where, I would not do the cowardly thing I am about to but new have always used me so kindly, and I have so invariably abused their trust, that I neither ask, nor expect, say moves mercy at their hands. You can notify my house, and they will inform my friends where I am, and I think they will give nee a Christian buria " o my father and my oarling sister a long good-oye. May God forgive me for all the trouble I have coused you. May those friends a Springfield who first induced me to smoke the pipe, and thereby wrecked my young life, soffer for it, if there is an avenging God.

iiie, softer for it, if there is an avenging God. "Young men, for God's sake never touch a drop of liquor. It has killed me and will just as surely kill you. I had as bright a prospect ahead of me as any young man ever had, had a more position and good salary, but rum and optim have got the mastery of me. "And now may the all-merciful God for-give me. Let this be a warning to all, for I would like it posted over the door of every rum shop and optim den in the world. Good-bye."

"PROFIT AND LOSS" DRINE ACCOUNT.

The following significant statistics of drink crime, discase, papperism and taxe-tion are from official sources, and should be carefully studied: LICENSES-NEW YORK CITY.

Expanditures, allowed by the board of Es-timate and Apportionment, for 1890: POLICE-CHARITIES AND CORRECTION.

penses..... 58,855.00 \$9,317,798 34 FAUPERISM.

PAUPERIEN, Whole number of nonpers sup-ported or relieved, year end-ing December 1, 1988, in Now York eity At a cost of Whole number of paupers sup-ported or relieved, in the sev-eral counties in the State of New York, year ending Dec, 1, 1988. 50,371 . \$1,608,612 36

cines. Superintendents, keepsrs, and officers of Poorhouses, sala-\$164,898 34

rice. \$596,846 71 onstables and other officers.... \$5,125 89 \$5,125 89 \$23,024 35 Transportation of paupers..... Children born in Poorhouses, the year

CHIME AND COLLECTIONS.

755

Arrests for intoxication, New York city, 1859 The license revenue for New York city for 1889 was \$1,442,770; but the aggregate cost to the city, for the apport of the police, prisons hospitals, courts, poorhouses, etc., was over \$11,246,410. Fully three-fourths of this large sum, or \$5,412,306, would be aved to the taxpayers of New York city alone in a single year by prohibition. Greator still would be the gain throughout the Empire State, in innounity from crime

the Empire State, in innounity from crime and pauperson, and in the improved moral character and intelligence of its citizens.-National Temperance Advante.

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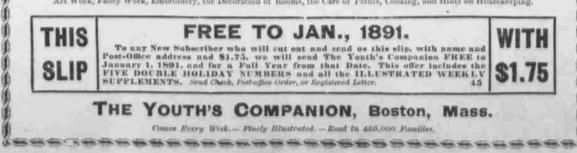
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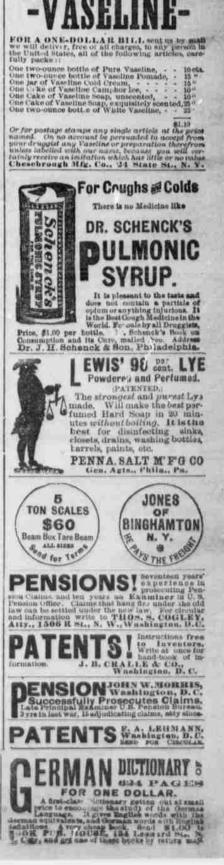
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