THE PLY WHEEL, and home

nical movement, there can hardly be found an article more perfectly simple than the fly-wheel which is 1,450 long, having 14 piers, 8 of sophy, or a correct view of the subject.

Those animals that are well curried and A. deducts cost of keeping (\$30.) B. deducts proportion of mechanics who understand the others of 50 feet span, 114 feet above tide-rubbed, are only indebted for this grateful cost of keeping (\$60.) A.'s profits, above the true nature and principles of it. There are water at the top. The aqueduct itself, which operation for the purpose of improving their keeping in one cow, are forty-two dollars .some who even suppose that there is actually is built of stone, brick, and cement, is 8 feet appearance. The owners or keepers do not B's profits above the keeping of two cows are an increase of power, by the adoption of a 5 inches high; 6 feet 3 inches wide at the generally consider how important it is to the twelve dollars. One cow then would be six large fly-wheel: and in nearly all cases, it is bottom, and 7 feet 8 inches at the top; and health and comfort of the animal. If they dollars.

Supposed that a very large and heavy wheel will discharge 60,000,000 of gallons of water will retain more of the power of momentum every 24 hours! The length of the aqueduct cows, young stock, and horses not at work, than a small one. It will not be disputed that either a man or an engine may accomplish miles. The whole cost of the work has been on a favorite and beautiful nag, that is often them yield twice as much as others on the more business of some kinds by means of a about \$13,000,000. fly-wheel to regulate the motion, than they could do without it. A fly-wheel is a mere momentum retainer. When power is applied to machinery through a fly-wheel, the latter at land on the manufacture of glass, which took first retards the motion of the former, until a 40 per cent. of the cost, the business has insufficient quantity of power has been accumu-creased almost beyond belief. Larger and lated in the fly-wheel to overcome the invertia better plates are made than in any other coun-should be frequently friction on the skin; it think the English great fools to pay such thereof; and the power thus accumulated is try, and at greater profit. The exports are should not only be cleaned by the curry-comb prices as they do, for first rate cattle. retained in the form of momentum, and held increased 110 per cent. In 1846, not a sin- and brush, but it should be rubbed also. may yet think differently. Ploughman. in readiness to be applied to supply any defi- gle foot of plate-glass was exported to Americiency of the applied power, to overcome the ca; in 1847, more was exported to the United of health. resistance of the machinery driven : and even States alone than had been exported to all the when the first motive or moving power is world in 1846. withdrawn altogether, the fly-wheel will continue to supply its own accumulated power till its momentum is exhausted. But this property of retaining power is by no means peculiar to large wheels. The momentum depends even more on the velocity than on the size or weight warm and comfortable for cattle. They should of the wheel, and when the velocity is doubled, have a southern, or an eastern aspect, and a the momentum is quadrupled. For example: cellar should extend under the whole building; a wheel weighing 100 lbs., being put in mo- for this room is the best in the whole barn, tion with a velocity of 1000 revolutions per and it is made at less cost than any room that minute, will furnish as much momentum as a can be made in the building. A farmer who wheel of equal diameter with a velocity of 500 has rocks handy, can dig and stone a cellar revolutions, and weighing 400 lbs. And by with labor that is less costly than that of carthe same rule a wheel only two feet in diame-ter and weighing 100 lbs., being put in motion

Barn cellars are warmer in winter and cooler with a velocity of 128 feet per second, will in summer than the upper parts of the building. supply as much momentum power for the re- Roots for stock can be kept here and fed out gulation of machinery, as a wheel eight feet in with a great saving of labor compared with diameter and weighing 1600 lbs., with a velo-storing in the cellar of the dwelling house. city of 32 feet per second. Very few mecha- And barns may be so finished that hay may be nics, even among those who are reputed to be stored conveniently below the barn floor .scientific men, can comprehend this fact, nor This is exceedingly convenient when you are will they be persuaded that a little 20 inch in a hurry-and you always are in the afterwheel can be made to regulate large and heavy noon in hay time. For one man may cart machinery as well as a large and heavy wheel. home a load and throw it off while the others But facts are stubborn things, and it may yet are left in the field to gather the hay. When be learned by the "learned," that many super- all hands are at home the hay may be levelled fluities of modern machinery may be dispensed down. Rainy weather answers for this buwith. - Sci. Amer.

Heated Rooms.

rooms heated with close stoves in which wood on the south side of the road, and directly opis burnt, have very dry atmospheres. The use posite to the dwelling-house. This cuts off an iron or tin vessel upon the stove, for the It compels you to cross the road many times reason that it will undergo that degree of in a day to see your cattle and feed them. heat, which will make its vapors offensive and And it exposes you to all the effluvia that is injurious to breathe. It is as injurious to the generated in the dung heaps in hot weather stock for market. Does it cost any more to human system to breathe putrid water vapors -for in hot weather the winds are southerly, rear for sale a good colt, than it does a poor of this kind, as it is to breathe the vapors I would place my barn, hog pen, and so one? Probably not five dollars more. The from stagnant ponds in hot weather. If wa-forth, on the easterly, or northerly side of the poor animal is a drug in the market at from be made use of, and this filled with dry sand; winds are less prevalent than the west; and readily from \$100 to \$200. Good horses are in the sand set an earthen bowl filled with when they do prevail, they are never so charged and will ever be in demand—are and will ever as if used for a drinking vessel.

glass globe should be suspended in the room sal organs. Many steps are saved in a winter durance, docility, &c., follow physiological filled with clean pure water, and as the heated by setting the barn and the hog pen near the laws as surely here as in the human race. If air rises to the top of the room, it will steadily dwelling house; and you can so arrange them, then the farmer would get profit from his horses evaporate the water, and moisten the dry and in most cases, as to be able to run to the stock heated air. Persons who prefer the atmost to be fed, under the lee of the buildings, and object of attention, that he shall raise only from phere of salt water vapor, can add salt to the free from the north-west winds. water, or if they prefer an aromatic atmos- In winter the hogs should be under the animal physiology .- Granite Farmer. tomed to stay in basement rooms, find a bad tivator.

air near the floor. This air should be removed by allowing the doors to be opened frequently to let in fresh air. A little care in these matters will tend wonderfully to comfort and enjoyment.

ter. From this the Aqueduct proceeds, a dis-ral rule, cattle and horses are mostly neglected. Have we made any mistake in the figures? In all the variety of machinery and mecha-tance of 33 miles, to Harlem river, which it This is not so much owing to the want of Let's try again :- Farmer A. keeps one good

English Plate Class.

Since the repeal of the excise duties in Eng-

The Farm.

FARM BARNS AND STABLES.

Barns should be so placed as to make them

Barns should always be set on the same side of the road with the house. Yet we find

Farm buildings thus arranged may be set Where hard coal is burned in a grate, a quite near together without offence to the na-

phere, they can add cologne water, or any barn, both for their own comfort and yours. other perfume which they prefer. It is as im- They will live warm there, and you can carry portant to have clean air for breathing as to them food when you go to feed the cattle. In have clean water for drinking. Basement summer a trough may conduct the wash of the butter per week,—while a good cow will yield rooms where hard coal is burnt, should be dairy directly to the pen, and save you the frequently ventilated. Small children accus- labor of carrying it by the hand.—Maine Cul- middling animal being as large and handsome

Currying Cattle and Horses.

In stables, where hostlers are constantly

seen by the public.

The skin secretes a fluid that gives to the hair a bright, smooth, and glossy appearance, cow when he can have a middling cow for and the better prepares it to shed water. In twenty-five. We answer, not one farmer in order for these secretions to go on regularly, twenty. And this is the reason why so few regarded in every other particular, but there of stock. We have no bidders. Our people This gives a fine coat, which is an indication

An important consideration here presents in cattle, cleansing is equally necessary for to feed out more than those that are dirty.-

required to marry against her choice.

and brushes, and set the boys to work; and was never made for food, for man or beast, take hold and give examples themselves, for and the bad effects sometimes produced by a few hours in a week from their play time.

See that the animals are kindly treated, tenderly with such as are uneasy under this half so wholesome !- Boston Cultivator. operation at first, from having been so much Rooms heated with anthracite coal, and many farmers placing barns and out-buildings neglected. They may be like the boy who, with his long frousy hair, could not see how people could bear to comb their hair every

Advantage of Raising Good Stock

Let us look for a moment at the raising of poor stock and neglect. Constitutional peculiarities, family traits of health, strength, enin the market, he must make them enough an good stock and with due regard to the laws of

and boy realmoning and an acid books A Middling Cow and a Good Cow.

butter per week, -while a good cow will yield as it is supplied. - N. Y. Farmer. as the good one. How many purchasers, think you, will give fifty dollars for the one rather than twenty-five for the other?

Let us make a reasonable estimate.

same keeping.

Yet who will give fifty dollars for a good

Digging Potatoes.

As the time for securing this valuable roct itself. Mothers wash their infants daily, and is not far distant, it will be well for every farthose who exercise judgment continue their mer to avail himself of the benefits of early health, when children, by giving them a good digging, which are neither small nor few.scrubbing in a tub of water, at least as often Nine times out of ten he will save his potatoes as once a week. And all persons who take from rot. The tops while green are worth proper care of themselves, bathe or wash the more for the pig-yard or to cover on the ground whole system often; though it is much ne-than when dry. Potatoes dug in dry weather glected for want of thought or laziness. Now will be clean, and are worth for the market or health, but washing, especially in cold water, Early digging gives the farmer a chance to would be improper; therefore, currying, plough, sow, draw off stone, or make any imbrushing and wisping or rubbing the skin, provement upon his ground he pleases in the should be practised as a substitute. It is often said, that potatoes keep better We have no doubt that every farmer, and in the ground than out; and that dirty potaevery owner of stock, will acknowledge the toes keep better than clean ones. This is true, truth of these remarks. But many will be provided there, is nothing to keep them from slow to practise them; they will hear, but not the light or air but dirt. But potatoes put into understand, like the Indian princess who was the cellar the last of August or first of September, and well covered with old quilts, mats, Yet we trust that many sensible farmers or boards, will be far superior to those which who do not already practise, will get the combs lie in the ground and take the fall rains. Dirt boys will be inclined to slight the operation, feeding potatoes to stock, is not attributable if they have not been well educated in this to the roots, but to dirt taken with them. In way, especially if this new business substracts these superfine flour-eating times, almost every one is well supplied with flour barrels. These make first rate receptacles for choice potatoes. particularly those whose bones, for no fault of Would it not be well to fill and eat, instead of their own, are very near the skin. Deal very depending upon others for that which is not

The best time to apply Paint.

It has long been a subject of enquiry, savs an exchange paper, as to the best time to apply day, as he combed his only once a year, and paint to the clapboards of houses for durability. of water in such rooms is very congenial to the most pleasant prospect that is usually to be health, but the water should not be placed in had from the south side, or end, of the house. day, as he combed his only once a year, and had from the south side, or end, of the house. twenty-five years past, which have resulted in the conviction that paint applied between November and March, will stand more than twice as long as that which is spread in the warmest weather. The reason is obvious for in cold weather the oil and component parts of the paint form a hard substance on the surface of ter is used upon a stove, an iron pan should house, rather than westerly, because the east \$60 to \$75, while the other will command the clapboard, nearly as hard as glass, and not the sand set an earthen bowl filled with when they do prevail, they are never so charged and will ever be in demand—are and will not soon wear off, whereas paints applied in the months of July and August, and day, and the bowl washed and kept as clean blown over heaps of manufacture. penetrates into the wood like water into a sponge, and leaves the lead nearly dry, which will soon crumble off.

Westphalia plan of Smoking.

A room in a garret; fire in the cellar; smoke gathered in a tunnel and lead to the smoke rooms by a small pipe; by the time it gets there, all the heaviest part of the pyroligneous acid has condensed, and the smoke become gool. Nothing touches the ham but a pure, light, cool smoke, which is allowed to pass of A middling cow will yield five pounds of by a number of small apertures, about as fast

Salt and Soot.

It is said that an important agricultural discovery has recently been made, showing that, by the union of salt and soot, a most valuable manure is produced. It has been found that employed, and currying is one of the princi-costs thirty dollars a year to keep a cow, and land which usually produced twenty-five tons pal branches of their business, horses are pret- the produce of a middling one is worth six dol- of carrots to an acre, when fertilized by a mixty well attended to in this respect; and in lars over and above the keeping. But your ture of six bushels and a half of soot, yielded THE HIGH BRIDGE AT HARLEM, forms a other cases, there are a few favorite horses good cow earns you seven times six! She forty. This manure is also said to be very part of the immense works erected to bring the water of the Croton river to New-York. The pearance, if not sufficiently cared for in report of the river, which is 70 feet wide at bottom, 7 at top, and 40 feet high, creates a pond of 5 miles long, covering 400 acres, and containing 500,000,000 of gallons of wa-