

Rural Economy.

ORCHARD CATERPILLAR.

The vast numbers of these caterpillars, in many parts of the country, admonish orchardists to destroy them before they make such progress again as they have the present year.

BREAD FOR THE BONES.

Bread and butter are the only articles of food of which we never tire, from early childhood to extreme old age.

TREATMENT OF YOUNG STOCK.

Calves and lambs well treated will make better cows and sheep than if neglected and allowed to shirk for themselves.

NATIVE, VS. IMPORTED CATTLE.

"B." thus writes to the Delaware County American:—"I have been waiting a full in the shower of communications which have been pouring upon you for a month or two."

there to prevent our raising from selected stock of this class, a new, or rather an improved, breed suited in all respects to our climate, the roughly American, just as much as the Durhams, Jerseys, Herefords are English?

CARE IN SAVING SEED.

It may not be generally known that seed saved from cucumbers, melons, squashes, etc., growing close to the root of the plant, is more valuable than seed saved from that grown midway, or near the ends of the vines.

HOW TO KEEP ICE.

Those persons who have no refrigerator for keeping ice may wrap a large piece of ice in a flannel sheet, or any large woolen cloth, or dry blanket, and put it in a large box, or tub, with the butter-plate on one side, the cream-pail on the other side, and the water-pitcher containing water and a small piece of ice on another side.

Scientific.

THE ATLANTIC TELEGRAPH EXPEDITION.

The London Times of June 28, in an article on the expedition, says:—"All the final arrangements for the sailing of this great mechanical and scientific expedition were settled on Tuesday."

It was then attempted to put a very powerful wrought iron guard over the screw, so that in backing astern with full power there should not be the least risk of the screw fouling the cable.

imminent risk of loss to which the Agamemnon was exposed in the storm of 1858 by a similar apparatus will not be sorry to hear that the Great Eastern will sail without one this time.

"Some old lengths of last year's cable have been stowed away on board the Albany and Medway. The Irish shore end is coiled on board the William Corry, which ship will leave with the Great Eastern."

"This labor over, the splice will be made, and the Great Eastern will commence her work. For the first 100 miles from shore, the new cable will be used, but down the gentle incline, into deep water, known in deep-sea nomenclature as the Irish bank, 300 miles of the cable of last year will be used, and for the rest of the route to Newfoundland, the new cable only will be employed."

"Last year the tests for determining the condition of faults, and also the strength of earth currents, were performed on board ship. This year actual tests will be made at both ends of the cable, and a continuous exchange of the results will be telegraphed from one to the other, the information which the shore can give the ship being of the highest importance to enable those on board ship to find out the position of a fault accurately and rapidly should any unfortunately occur."

"Such information will be exchanged almost hourly through the cable as will enable those on the shore to know not only the position of the Great Eastern, and the amount of cable paid out, but also the electric condition of the cable, and the approximate distance of faults, should any unfortunately be discovered. It is worthy of remark, that during the manufacture of the 1860 cable, and its being coiled on the Great Eastern, several faults occurred. This year, there has not been a single one, which is a good omen of success for this great enterprise."

"The electric test immediately transferred to the fresh-cut seaward end will indicate instantly if the insulation be perfect between it and the shore. A few minutes more, and the tests applied to the two ends of the remainder on board will show very closely the position of the fault, whatever its character may be."

paying-out machine, and by careful watching of the dynamometer, never letting it go beyond 60 or 65 awt, and controlling the power accordingly, the cable, which can bear a strain of seven tons, will not break, and the fault will be got on board more surely, and possibly in a shorter time, than a 'silly salmon' of thirty pounds weight can be landed by an expert angler with a rod and line that could not bear sixteen pounds."

IMPROVEMENTS IN LOCOMOTIVES.

One of the most important improvements yet to be made in locomotives, is the general adoption of apparatus for superheating the steam. With hot, dry steam, the expansion gear need hardly ever be made to cut off later than at one-third of the stroke, while it could be made to work often from one-eighth of the stroke.

"It is demonstrable in theory, and entirely borne out by practice, that as much as fifteen per cent of the fuel may be saved by heating the feed-water by the exhaust steam to two hundred and twelve degrees. Less than one-sixth of the escaping steam is required to impart one hundred and fifty degrees of heat to feed-water at the ordinary temperature, and the arrangements for heating the feed-water may be given to obtain pure water also for boilers, impure water causing a considerable loss by priming, and a great loss of heat whenever a scale of non-conducting material is deposited upon the tubes."

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