special types of type breeding [illegible]. Every horse must be bred for a particular purpose, and if at the beginning the animal does not possess the good points for a particular purpose [illegible]. The small horse and the horse of mixed virtues has passed [illegible] and his day will never return. [illegible] the large horse [illegible] coach horse [illegible] every horse must [illegible] Indiana Farmer.

New for Better Horses.

[illegible]—Live Stock Journal.

Black Knot of the Plum and Cherry.

[illegible] Wherever the Damson plum is grown the disease is almost sure to be present; and as it is one of the "contagious plant diseases" referred to in the Indiana inspection law, the necessity for prompt action on the part of all owners of affected trees will be evident to all.—J. Troop, Horticulturist Indiana Experiment Station.

Preparing Soil for an Orchard.

The most important work for an orchard of any kind of fruit is in getting the soil in the right condition, and it is a good plan to be thorough in this work before any planting is done. I believe it is good economy to spend a year in preparing the ground, by repeated ploughings and harrowings, previous to planting the trees. In this way enough plant food should be set free to support the growth of an apple orchard for ten or twelve years without any fertilizer being used. Deep ploughing in this work I think of great importance, and I am of the opinion that it is perfectly safe to estimate that where the land is worked twelve to fourteen inches instead of six inches deep, the productive capacity of the ground is doubled, for a vigorous and deep root system means a strong top growth. I do not know of a better method of deep ploughing than by using the common subsoil plough built for this purpose. In a wet season if the land is ploughed deep the water will not stand on the surface, but sink down below the plant roots sooner than when the surface soil alone is turned over. It is apparent that the roots of crops growing on land prepared in this way, have a great advantage over the first ones. They are less affected by drought, being further from the surface, and are in much less danger of injury from heavy winds, owing to having a stronger hold in the ground. As a consequence, deep working tends to more robust growth, and thus as a rule promotes a liberal yield of whatever is grown.—V. M. Couch in Ohio Farmer.

The Blackberry.

The blackberry is a fruit that is very easily grown, and can be made successful if given intelligent attention. It should be planted in only moderately rich soil, in rows seven feet apart, with the hills three feet apart in the row. Give garden culture with surface cultivation tools. Keep the plant in hills and remove as weeds all sprouts that spring up between the rows, says the "Homestead." Give high culture and when the new canes are twenty inches high pinch off the terminal buds to make the side branches numerous and cover in the fall. All this may be done, however, and yet the fruit crop may be lost because of a severe winter, not by reason of the low temperature, particularly, but simply because the sap and vitality dry out of the canes. It is best to cover in the fall with earth. Put on a pair of heavy mittens and bend them over and downward to the ground, place the foot on top of the hill and with a spade make a hillock of earth on the top until it holds the hill down. This may seem like a simple operation, but it is quite a trick to get them down without loss or breakage. It may be done, however, if the operator will dig a little earth away from the side of the hill on the side toward which he is going to bend the canes, so that the whole will come partly on the crown and root connection, which are tougher and have more moisture in them because they are nearer the earth. If the work is done in moist weather the canes will come down with a great deal more ease and less loss. In dry weather it is best done in the morning, from daylight until near noon. The blackberry cane is only a hard wall filled with a rough pith. It is readily affected by changing temperature, and is much subject to desiccating winds. [illegible]

Care of Apple Orchards.

A well-managed orchard is a most valuable farm property [illegible]. [illegible] Many of the trees which bear seedlings of undesirable fruit may be top-grafted and converted into valuable sources of income. This is particularly true of seedlings along roadsides and in pastures. The most successful grafting is that which disturbs the tree least. Graft many and small limbs. Before starting

[illegible]

Bees and Honey.

[illegible] Massachusetts Ploughman. [illegible] About the first of May is a good time to start in the business in this latitude, though if a hive is well filled with brood and has stores enough it may be safely purchased earlier. But at that time there is but little danger of spring dwindling if there is a good queen with the colony.

Or perhaps a better way for the beginner would be to secure his hives, supers, frames, section boxes and comb foundation, with such other supplies as he may expect to use, as the smoker, veil, etc., this spring, being sure to have enough of these, and make arrangements at some apiary to have them fill the hives when they have a good swarm. This will cost less than to buy the full stock in April before they swarm, and, while the increase will not be so much the first year, a strong swarm will often store as much honey as the old colony which has cast a swarm, and usually it will winter quite as well. This will give more time to become accustomed to handling them. For a beginner the hiving of a swarm is often an unpleasant task, but after he has handled the bees a year, he will think it easy to do so, especially if he has studied one or two of the many books published on this subject, and read some bee literature, or talked with some up-to-date bee-keeper who does not use the box-hive, or talk about the king bee.

Spring Keeping of Bees.

To obtain the best results our hives should be fairly running over with bees and enough for field bees, and all frames in the brood chamber filled with brood when the honey flow begins. This varies, for in some parts of New York the surplus honey comes from buckwheat, which blossoms in August. In Michigan and Wisconsin the surplus is from basswood, which blooms during the early part of July, while our surplus is gathered from white clover and red raspberries, which bloom early in June. So each beekeeper should study his locality and adopt a system of management that will give him the largest number of field bees just when they are needed.

[illegible] Worcester County (Mass.) Beekeepers' Association.

Pimples, blotches and all other spring troubles are cured by Hood's Sarsaparilla—the most effective of all spring medicines.

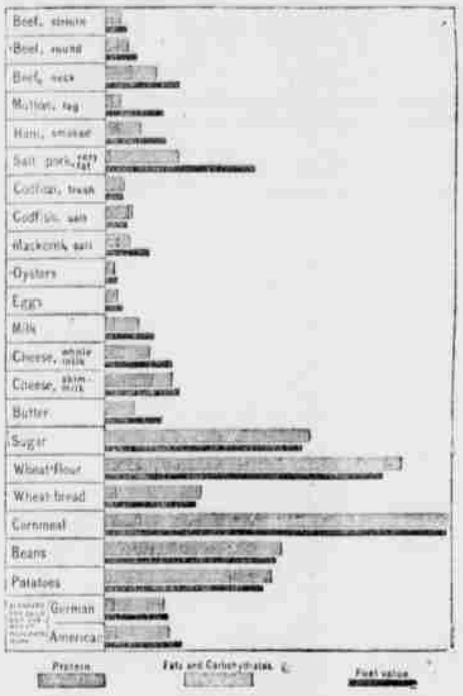
SLATE DISCOVERED.

Found on the Ceded Portion of Fort Hall Reserve.

Fort Hall Indian Agency, Ida., May 1.—It is reported that a slate quarry has been found on the ceded portion of this reservation. It is said to be of good size and of a most excellent quality for roofing purposes.

RELATIVE FOOD VALUES.

Cereal Foods, Vegetables and Dairy Products Contain All the Nutritive Elements of Meat and Are Much Cheaper.



Investigations made by the Government show that in many families from 50 to 65 per cent or more of the income is spent for food alone. In view of the fact that food prices are advancing steadily, while the wages of most laboring men remain practically the same, the problem of getting things to eat that are nourishing and palatable at a reasonable cost is becoming a serious one in many households.

A great deal might be saved by proper knowledge of what to buy and where to buy it to the best advantage, and how to prepare and cook the materials bought. Experts who have investigated the subject claim that even where considerable care is observed, one-tenth of the food bought is thrown away with the table and kitchen refuse. In most families a much larger proportion is wasted. If the waste food of our cities could be utilized, it is said, it would nourish every hungry person in these cities.

It may be a surprise to some persons who consider a meat diet absolutely essential to their health and happiness when they learn that cereal foods and dairy products contain fully as much nutritious material as flesh. When properly prepared, also, they are quite as palatable. The tenderest meat, the finest fish, the highest-priced butter, and the most delicate vegetables have no greater food value than many of the less costly foods.

The appended table, taken from Jerome Walker's "Anatomy, Physiology and Hygiene," shows the relative nutritive value of 25 cents' worth of various foods.

Odd Tangles.

[Word definitions, unless otherwise stated, are according to Webster's International Dictionary, Lippincott's Gazetteer or Phillips's Dictionary of Biographical Reference. Original contributions will be welcomed, communications for this department to be addressed to E. R. Chadbourn, Lewiston, Me.]

124.—AN AMERICAN BOOK.

ROBERT.

* * *

125.—TRANSPOSITION.

TWO trees and [illegible] their gala dress display,
Rhodora [illegible] her purple ONE to wear,
In Vermont's white the cherry and the pear.
Cornels in light attire with rubies gay,
And peach in rosy garb announce the May.
[illegible]
A. L. S.

* * *

126.—A FAMILY TANGLE.

Can you tell anything more singular? Mr. A. was born [illegible]
How was this possible, and what was the number of children in this remarkable family?
RALPH.

* * *

127.—FLORAL COLORS.

"There is a [illegible]," said [illegible],
[illegible]
M. C. S.

* * *

128.—[illegible]

SUMMER SUMMER SUMMER SUMMER
SUMMER SUMMER SUMMER SUMMER
SUMMER SUMMER SUMMER SUMMER
SUMMER SUMMER SUMMER SUMMER
Summer Summer Summer Summer
Summer Summer Summer Summer

What [illegible] the two bottom lines of words represent?
MYRTLE.

* * *

129.—CHARADE.

[illegible]
E. H. C.

* * *

130.—ANAGRAM.

The THIN DISGUISING of their thoughts, feelings or purposes is the WHOLE characteristic of some people. They seem to think it is a very amazing way to treat a friend so that he may be thoroughly mystified in regard to what they have done or intend to do, even, at times, going so far as to lead him to believe that they mean to do the exact opposite of what he desires them to do, and the exact opposite of what they really intend to do, and then laugh very heartily when they are finally found out. It is a question in my mind whether such THIN DISGUISING of their intentions is a good WHOLE characteristic or not. At least there is a possibility of it leading to unpleasant, if not disastrous, consequences.

* * *

131.—TRANSDELETION.

(Example: Prate, rate, tea, at, a.)

A little orphan girl once made this prayer
(You see, she'd never had nice clothes to wear):
Her parents ONE—gifts rarely single come—
Three years the sheltering Wing had been her home.
[illegible]
SIX are [illegible],
But SEVEN don't ever [illegible]
MABEL P.

* * *

132.—RIDDLE.

I am very large indeed,
A spacious room or hall I need.
[illegible]
E. R. H.

May's Prize.

A pretty edition of Milton's poetical works will be given the sender of the best list of answers for May. The solutions, whether one or several each time, are to be forwarded in weekly installments, and the credit will be given each competitor at the close of the month.

ANSWERS.

[illegible] (Hans Andersen.)

[illegible]

BIRTH AND DEATH OF STARS

Although, to superficial observation, it might seem that the great bodies of the universe could radiate their light forever, the modern generalization of physics shows that such cannot be the case. The radiation of light necessarily involves a corresponding loss of heat and with it the expenditure of some form of energy. The possibility of such a restoration is [illegible]. How can the little vibration which strikes our eye from some distant star, and which has been spending thousands of years in reaching us, find its way back to its origin? The light emitted by the sun 3000 years ago is today pursuing its way in a sphere whose surface is 3000 light-years distant on all sides. Science has nothing even to suggest the possibility of its restoration, and the most delicate observations fail to show any return from the [illegible].

It can be said, with the confidence of demonstration, that the energy generated by the sun's contraction could not have kept up its present supply of heat for much more than [illegible] years.

It will suffice to say, in a general way, that the study of earth and rocks shows evidence of the action of a series of causes which must have been acting on our [illegible] hundreds of millions, quite probably thousands of millions of years.

However, the commencement of the geological changes of which we speak is by no means the commencement of the earth's existence. [illegible]

Granting the evolutionary hypothesis, every star has its lifetime. We can lay down the law by which it passes from infancy to old age. All stars do not have the same length of life; the rule is that the larger the star, or the greater the mass of matter which composes it, the longer will it endure. [illegible] Who knows but that the radiant property that Becquerel has found in certain forms of matter may be a residuum of some original form of energy which is inherent in great cosmical masses, and has fed our sun during all the ages required for the geologic [illegible] of the earth's crust?—Simon Newcomb in the International Monthly.

A New Brand of Coffee.

Little five-year-old Lois Durand was sent one morning to buy some Java and Mocha coffee for her mother. By the time she had reached the store she had forgotten the name of the coffee she was to order, so when the storekeeper asked her what kind of coffee she wanted, she said:

"I forgot, but I think it was Jamaica and Jehovah mixed!"—Little Chronicle.

The Boston Girl.

Granger—You would hardly call Miss Fois a very warm-hearted person?

Farmer—Warm-hearted! On the contrary, she is awfully cold. If she should shed a tear, you may be sure it would be a hailstone.—Boston Transcript.

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[illegible] D. F. Walker Bldg., Salt Lake City.

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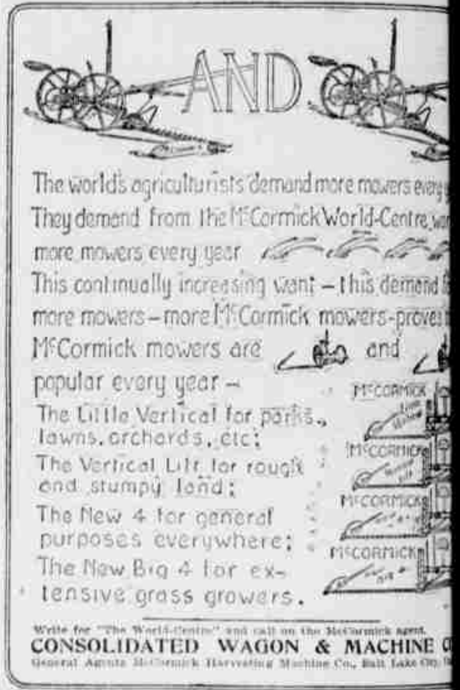
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