

Good Old-Fashioned Way Plowing With Oxen.

which the farmer must undergo in Management, United States Departgetting started. ment of Agriculture.)

In the above estimates the real es-It is the intention in this article to tate is about 70 per cent. of the total discuss the cost of the equipment for capital; the machinery is about 10 per the various types of farming. The cent.; live stock 15 per cent., and reader will of course understand miscellaneous, including minor items that these estimates must be of equipment and working surplus, 5 en merely as estimates. For per cent. In four townships of the stance, in the types considered bestate of New Hampshire, where Mr. E. low land has, in all cases, been con-H. Thompson of the office of farm sidered as worth \$50 per acre without management made a careful study of buildings, fences, etc. The price of every farm in each of the townships, land varies enormously in different lothe distribution of the capital between In using these figures, these items was as follows: therefore, the prospective farmer must substitute in them the proper price of land. The farm will nearly always have a dwelling upon it, and it will usually have fences, and frequently a barn that will answer the purposes. These items are usually included under the head of real estate. It will therefore be necessary, in ev-

ery individual case, to substitute for

the real estate items in these figures

the actual values obtained by inquiry.

cost of a sixty-acre dairy farm:

Dwelling

Fences, \$5 per acre.....

Minor items of equipment.....

2 pigs

12 hens

1 hen house.....

Working surplus

total capital required is \$7,447.

(By W. F. M'SPARRAN.)

Inexperienced siloists are inclined

to think that a large bulk of green

matter is the first thing to be con-

sidered in securing a crop of ensilage

corn, with the result that from too

thick planting or cutting the crop

while too immature, their experience

in feeding silage is apt to be disap-

We are desirous of course, of secur

ing as much weight per acre in our

crop, compatible with highest feeding

value, but to secure the latter, which

is the object in filling the silo, we

must draw a sensible limit to mere

A safe rule, therefore, to follow is

to first know about what one's land

may be depended upon to do in way

of production under ordinary weather

anditions. Having this knowledge

one's choice of seed should be of a

corn that will grow the largest

mount of fodder with a good yield of

are the whole plant being capable

When the crop must be cut to save

from being frost-bitten, while the

rains are rat in the thin milk stage

not make as good sliage as the

me aut to save it from our

maturing in the neighborhood.

pointing.

September or October.

The remainder of the items can be It will be seen that our figures sepended upon with a fair degree of agree fairly well with these figures, certainty, as they do not vary so actually taken from the farm, the much in different sections. The folprincipal difference being that the lowing is the estimated real estate percentage in real estate is larger on the New Hampshire farms than in the Land, 60 acres at \$50.....\$3,000 estimates above, while the percentage in machinery and miscellaneous is Barn (for 16 head at \$70)..... 1,140 smaller. A slight difference in the price paid for real estate would make

Total\$5,196	these figures agree very closely.
Usually one can buy land with the	Equipment for a 40-Acre Hay Farm.
above equipment on it by paying cash	40 acres of land at \$50\$2,000
from one-fourth to one-third of its	Dwelling 750
value and giving a mortgage for the	Barn 500
remainder. Hence the necessary cap-	Fences 150
Stal for a beginner, in order that he	
may start in and have his farm in full	Real estate\$3,400
operation within one year, would then	One-third of real estate\$1,133
be about as follows:	2 horses 300
One-third of the value of the	1 mower 50
real estate\$1,730	1 rake 20
12 cows at \$50 600	1 two-horse plow 8
1 bull 75	1 two-horse harrow 15
2 horses at \$150 450	1 wheelbarrow seeder 8
Harness 40	1 wagon 70
Wagon (farm) 70	1 set harness
Wagon (spring) 85	1 baler 300
Dairy utensils 200	1 cow 50
Implements and machinery, \$5	2 ptgs 6
per acre	12 hens 6
Per delle	

Total, one-third of real estate\$2,419

6 Minor items of equipment...... 125

1 hen house

Surpida

Total, all of real estate down \$4.686 It will be seen from the above that The amount of capital thus seen to be necessary in order to start off a 40 acres devoted almost exclusively dairy farm properly, under the condi- to hay can be equipped for considertions here assumed, is about \$4,000 ably less money than a 60-acre dairy (\$3,987); or, if the farmer desires to farm. The income from the 40-acre pay cash, which is always safer, the hay farm, in those states where hay will sell for as much as \$15 a ton on In starting such a farm it is highly the farm, will also be larger than it opment as are injuries or weaknesses important not to buy the cows until will be on the 60-acre dairy farm. But one has feed on hand for them. By in regions where hay sells for only \$8 starting early in the spring the farmer or \$9 a ton an exclusive hay farm is ton as about the dividing line between It is, of course, possible to start in hay farming and other types. with less equipment than above given, course it will be necessary, in conbut every item omitted at the begin- ducting an exclusive hay farm, to use ning simply increases the hardships commercial fertilizers liberally.

Careful experiments show that RAISE CORN CROP FOR ENSILAGE

corn perfectly developed. First Know What Land May Be Depended Upon to Do in Way silage. It is better to labor with less of Ordinary Production.

My practice is to plant a corn that in height of stalk and extent of foliage will produce me a maximum quantity of fodder that will remain green long, and each stalk produce one or more well developed, good

It is a waste of time, .abor and land to plant corn for ensilage only as thickly as when planting for a curing crop. One may have twice as many stalks as in ordinary crop planting, if on good land, and make per-

The extreme of too thin planting is nearly as ill advised as the other of too thick. I want from 15 to 25 tons per acre on my land under my farm-

I strive especially for a corn with extension blade system, as in the blades I get protein.

Cause of Wilt.

If you observe a strawberry plant suddenly wilt, you will generally find a nice fat grub at the end of the roots when you dig it up.

Good Breeding Fowle. Size, vigor and activity of both cockerels and pullets are the essential to good breeding fowls.

Farm Interests

Edited by HENRY G. BELL Agronomist Middle West Soil

Formerly Professor of Agronomy and Manager & Farms, University of Mains Asst. Professor of Farm Crops, Iowa State College of Agriculture, Ames

Experience Has Shown That the Right Use of Fertilizers, Bara Manure, Proper Tillage, Good Seed and Crop Retations, Insure Farm

Three important points are illusrated by this chart.

LARGER CROP YIELDS-WHY?

(1) In Illinois the yield per acre of wheat, oats, potatoes and hay were not much more than half the yields produced in Germany.

(2) Illinois is far in arrears in the production per acre of these same crops in comparison with the four older northeastern states, namely, Maine.

(3) The systems of farming practiced in Illinois have not obtained or maintained as high a standard yield as have the systems followed upon the older farms in the eastern part of this country.

Illinois?

eastern states of this country, after | soil, are barnyard manure and cou giving thorough attention to drainage

COMPARATIVE YIELDS BU. PER ACRE

WHEAT.

Maine, New Hampshire, Vermont, New York, average yield per acre 25.1 bus. illinois, average yield per acre 15.5 bus Germany, average yield per

Maine, New Hampshire, Verment, New York, average yield per acre..... 36.8 bus. Illinois, average yield per acre 33.4 bus Germany, average yield per POTATOES.

Maine, New Hampshire, Vermont, New York, average littmote, average yield per acre 63.5 bus. Germany, average yield per HAY.

Maine, New Hampshire, Verment, New York, average yield per acre 1.31 tons Illinois, average yield per acre 1.07 tons

Germany, average yield per acre 1.83 tone Record for Years 1910, 1911, U. 8.

Year Book.

and tillage of soil, as well as to maintenance of organic matter in it have paid close attention to balancing the plantfood ration of the soil so as to make up the deficiencies of the soil and to meet the needs of the creps grown thereon.

It is high time for the Illinois farmer to give careful thought to the methods of soil tillage and fertility maintenance followed in both these eastern states, and in Germany. In many cases, at the present time, the money invested in his farm is not returning a paying thterest.

IMPORTANCE OF SOUNDNESS IN WHEAT KERNEL.

The wheat kernel is the infant wheat plant. Any injury that comes to it, or any weakness that it inherits is just as injurious to its growth and dovelto the human or animal offspring.

Some men believe that wheat seed is all right if it is cracked, or even can usually be ready for the cows by not advisable. I would put \$12 to the if parts of the kernel are broken off. granted that those parts do not include the germ of the wheat. Now any injury to the body of the kernel is just as detrimental to the wheat plant as improve her yields he located a fivecutting off a leg or an arm would be to the child.

where silage is made from large im- vs. broken wheat have proven this to mature corn it frequently has but lit- be the case. Moreover, the first food tle more dry feeding matter than is se- supply for the tiny plant is wrapped cured from about half the bulk of up in the body of the seed. Therefore. If the seed is broken, part of the So, mere tonnage does not count in early food is taken away. A broken kernel of wheat, attempting to grow. in the harvesting and secure more in is in just the same position as a child trying to develop on starvation rations

The tiny plant has to feed upon this food supply wrapped up in the seed soil in search of food.

and shriveled wheat from the sound not fertilized. wheat is to fan and sift the seed thor-

IMPROVED SOIL FROM SOIL FEED-

"The soils of New England and the soils of New Jersey, even though they have been cultivated for many years, produce more corn, more hay and more wheat per acre than the soils of Ohio, Indiana, or even lowa or Illinois. The farmers of New Jersey have increased the yield of potatoes per acre by nearly 15 bushels the last ten years. The potato growers of Maine are able to produce 250 and 300 bushels of potatoes per acre, as are the progressive potato growers of our own state, largely because of the use of commercial fertilizers. The potato growers of Germany, Belgium and France produce large yields thanks to their knowledge of the value of commercial fertilizers."-Director Jacob Lipman, New Jersey Experiment Station in Rural New Yorker, March 29,

PURDUE EXPERIMENT STATION ON WHEAT.

The Purdue Experiment Station, La-Fayette, Ind., made a test in 10 representative counties of the State of the value of feeding winter wheat The ground was thoroughly prepared in due season, and seed of good quality was used in each case. In connection with these valuable experiments, Purdue Experiment Station has the following to say:

Plantfood Requirements of the Wheat Crop.

"One of the principal causes of failure to secure satisfactory yields of wheat in Indiana at the present time is lack of proper attention to the matter of feeding or fertilizing the crop. There is no doubt that our farmers will have to pay more attention to this point if they wish to grow wheat at a profit. It is just as necessary to bave an adequate supply of food available for a crop of wheat as it is to have plenty of food at hand in order to grow a drove of hogs."

"Fortunately most of the food ele-New Hampshire. Vermont and New ments used by wheat are present in the soil in abundant quantity. but there are three, namely nitrogen, phosphorus and potash, which are used by wheat and other crops in large amounts, that are present in the soil in small amounts; hence, after a few years cropping accompanied by the There is surely a reason for this su- removal of the produce from the land. periority of yields in the eastern states the available portion of these elements of this country, and in Germany. Why becomes exhausted, and in order to have they exceeded the production per secure further satisfactory yields, acre of the rich soils of the state of these food elements must be added to the soil from some outside source. Undoubtedly, one of the important The principal and most common reasons is that both Germany and the sources of plant food, aside from the mercial fertilizers.

> "In considering the use of fertilizers, the fact must not be overlooked that the fertility of the soil is dependent upon a considerable number of factors other than the presence of adequate amounts of plant food. Some of the most important of these are good water supply and drainage, good physical condition of the soil, good cultivation, conditions favoring the development of beneficial soil bacteria. absence of harmful materials and bacterial growths, and adequate supply of humus, and sufficient lime or other alkaline material to keep the soil from becoming acid. Unless these essential factors of plant growth are present, the feeding or fertilizing of the crop cannot be expected to produce satisfactory .esults any more than the feeding of an animal under unsanitary or unhealthful conditions can be expected to produce satisfactory results."

"Taking 10 representative one year experiments from the following widely separated locations, Scott, Fayette, Riplet, Sullivan, Clinton, DeKalb, Bartholomew, Johnson, Tippecanoe and St. Joseph counties, it has been found that the average gain in bushels per acre due to fertilization has been 11.6. the average cost per acre of fertilization has been \$4.14 and the average net profit per acre has been \$7.46. To this profit must also be added the ben efit accruing to the land from the residual fertilizer left behind by the wheat crop and benefiting future crops."-Purdue University, Circular No. 23, Revised July, 1911.

WHAT JAMES J. HILL HAS DON FOR MINNESOTA AND NORTH DAKOTA.

Efficiency is the watchword of the hour. It is the test of the industry as well as the individual

With the idea of comparing the efficiency of the farms along his lines with those of older parts of America and Europe, Mr. James J. Hill, the leading railroad man of the country. has made an extended investigation of crop production. He saw that European countries were producing almost double per acre, and sometimes more. of American yields of wheat, barley

To demonstrate that America car acre demonstration on a large number of farms in Minnesota and North Da-Many experiments with sound wheat kota last year. He paid the farmer \$8.00 per acre for his work upon the demonstration plot, and gave him the product of the plot. He says, "The proof of the pudding is in the eating; and the vindication of the modern ag ricultural idea is the thresher returns and the elevator receipt."

The results obtained were a source of wonderment to the planners of the experiment. The following table shows the average yields obtained on the till it can send hair-like roots into the Great Northern test plots compared with the average yields of the check The only way to separate the broken plots, one the same farm, which were

(Fert.) (Unfert.) per acre.

With such remarkable results demonstrated on 129 farms, the Middle West farmer is studying more deeply than ever what are the most profitable practices in fertility maintenance.

Mr. Hill has clearly demonstrated

(1st) Good drainage pays. (2nd) The organic matter of the soil must be kept up.

(3rd) Barn manure must be saved and used wisely. (4th) Good seed must be used.

(5th) The soil must be well tilled. (8th) Run-down soils, and the unbalanced available plantfood in them. can be promptly restored to proper balance, and greater productiveness by the proper use of commercial fertilizers in connection with manureand that at a large profit to the farmer.

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