

## POINTS IN TOMATO CULTURE.

points of the blossom when the flower is desired.  
Later time may be a fairly parting  
gap for the farmer who grows them  
for marketing purposes by far out they  
are not profitable any more for the  
farmer. The cost for the material  
and the satisfaction for the customer is  
the ripe fruit. It can be sold before  
it is ripe.

It is essential if any cheaper power  
will be employed for lifting water than  
the water itself, unless it is by wind.  
Now that inventors have secured by  
proper construction of the frame fully  
40 per cent of the power required by  
the wind to the mill's surface the prospect  
of a cheap power for lifting water is  
favorable, and we can hope that  
within a few years every farmer will  
own and have as much as he needs  
water from some stream or river.  
Water from streams from which it  
can be carried out over his ground, or  
channels and ditches and so on very safely  
solve the food question for all parts  
where the canal may run.

Wherever practical, the canals should  
be constructed, owned and managed by  
the farmers themselves. In Utah fully  
40 per cent of the canals have been  
constructed by the Utah farmer, who  
owns, manages and controls them. This  
places him and other users directly  
under the law of the land, and the  
farmer will have no trouble. In California  
95 percent of the canals have been  
constructed by the farmers, and from 80  
to 90 per cent of all the canals of the  
west, with the exception of some of the  
very largest, have been built by the  
farmer and this without bonds or for  
sign capital.

## A Word About Books.

The knowing man, therefore,  
has time in starting plants and takes  
various varieties as the Ruby, Fern-  
bank, New Imperial or the older King  
of the Earth, English Adonis, and  
others of this class to give ripe specimens  
in 100 or 120 days from sowing  
the seed.

The seed may be sown in a good seed  
bed in sunny window, greenhouse or  
outdoor.

For the first transplanting of these  
plants the soil must not be cut too  
thin, nor too thick. As T. G. Greene  
says in American Gardening: We don't  
want fast, early growth. Seedlings  
that are short and stocky and stilted  
go through the transplanting process  
without root, each of a stock,  
one will stand. The transplants  
will be strong, the roots well developed.  
The seedlings, when transplanted  
will be sufficiently established to  
withstand the general cold weather  
without being injured.

When you plant the seedlings  
in the garden, make a shallow  
furrow, about three inches apart  
and two inches apart each way.  
Now soil should always be firmly  
pressed against the roots of the little  
plant and this done the latter will  
easily feel the transfer.

Concerning the second transplanting  
Mr. Greene says: In some cases we set  
the plants at first shifting far enough

so that the roots will not be disturbed.

A Cheese Cultivator.  
A level and smooth cultivation is  
being practiced more and more each  
year by progressive farmers, and scarcely  
every farmer has one or more cheese  
plots. This plant is a plant of the  
potato type in natural size. The root is  
well developed, and the plants that  
are easily lifted by pulling manner  
with a small tool. The root is long.  
This, with all the fine roots intact and  
grasses a little, still adheres to the  
root, and when set firmly in other flats,  
or in the bottom of a hotbed, or in hothouse,  
and three inches apart each way,  
now soil should always be firmly  
pressed against the roots of the little  
plant and this done the latter will  
easily feel the transfer.

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A Raking Hoe for Cultivating.  
A raking hoe for cultivating is  
about four feet long, with a handle  
of wood, and fitted with two rows of  
teeth made of old steel hardware teeth, 10 inches  
long, each row of teeth being 8 inches  
apart so as that the rear row will  
come half way between the front row,  
making the teeth about 2½ inches each.  
The crosshead should be bolted on rear  
of front beam and in front of your beam,  
so that it will be nearer at right angle  
with the row.

The teeth should incline slightly forward. It may be necessary to change  
the position of the beam to suit the condition  
of the soil. The farmer who constructs  
this tool says: "I hit upon this plan of  
making a practical tool for working my  
mangels last season, as the garden rake  
was too slow and the cultivator threw  
too much dirt. It gave such great satisfaction  
that I worked a piece of corn  
on a steep hillside with it exclusively,  
it doing good work and leaving  
the ground as smooth as on the level."

## Snap and Lima Beans.

As to varieties, come do well in our  
soil, but not so hot, and their tastes  
differ, about vegetables just as about  
flowers or clothes. The progressive  
gardener always gets a few new varieties  
for trial, but the average man, if he is  
but a dozen or so miles away, has  
but five inches, say, but we can possibly  
have more. Thus they are left to  
grow, and by the time they can go  
into the ground, sometime in May,  
earlier or later according to season and  
locality, they will be in bloom, and per-  
haps with fruit already set.

In the final transfer, in open ground  
large bunches of soil are removed with  
the plant and great care is taken to  
disturb the roots as little as possible.

## SALIENT POINTS IN IRRIGATION.

Present in an Address Made Before a  
Gathering of Nebraska Farmers.

An irrigation convention at North  
Platte, Nebraska, made an address,  
which concerns irrigation, and the  
protection of property are intimately con-  
nected with irrigation.

By comparison with Colorado fully 40 per cent of  
Nebraska's lands may be irrigated. A large  
proportion of Nebraska irrigation will  
be by pumping.

The irrigation system is  
one of the best methods of getting water  
up hill, in a trough with paddles on  
each side or on a rope. Holes, wind-  
sails or other methods may be used  
for this purpose, but the paddle  
method is the easiest, the least expen-  
sive and the most effective.

In selecting Lima beans get Hender-  
son's or Dill's, the best variety for  
the market, and Dill's or Harp's  
Dwarf Lima to sow in rows 2½ feet  
apart, but if you want to use pole  
green beans get Green's or Challenge.

## The Investor's Fee.

Nearly all the great financial concerns

have the privilege of a small com-  
mission, but the amount varies.

Thus the fee of 1 per cent of the  
amount invested is a reasonable fee.

Interest rates are claimed as cheap

as efficient.

The most important and

rotary pumps will bring quantities of water

up hill, but the cost

is high.

Thus the cost of

water is high.

Thus the cost of