

N^o 1

Agriculture

- 1 Melons should have all the artificial heat from the bottom.
- 2 If a hole be bored with a gimlet in the branch of a Cherry tree and made Mercury be poured into it, the Colic, Stomach and other Vermin will all be killed, in a few days.
- 3 It is affirmed that Bulls draw better from the horn than from the breast, and that they are forced by the horns into a ship — At Madaira Oxen draw by the breast, at Tomar, Santa Cruz by the fore head at the root of the horn —
- 4 There is a remarkable Difference between a crop sown in Oct, and

a spring crop of wheat & the former is always better than the latter - Give what effect has cold on the winter crop?

5. The French carts are long and narrow, high wheels, long and plain stocks, an axis in Perches and chain to fix the load

6. In Pennsylvania powdered Ashes is sown by way of manure on the soil at the rate of 12 bushels of Ashes - It is said to be an excellent manure, and that it does not answer when burnt

7. In what manner does Salt act as a manure?

8. Does not sea sand act as a manure, only from the shells

of which it contains generally a large quantity?

9. Woollen rags are made use of in some parts as a manure Does not the effect depend on the Capillary attraction?

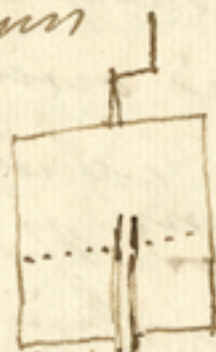
10. Lime acts as a manure best on wet heavy soil - some perhaps this owing to the fermentalness which probably arises ^{from} ~~and~~ the calcareous part of the lime neutralizing the acid of the soil

11. Mr. Forsyth Gardener to the King at Kensington has discovered a composition which cures wounds and cuts in vegetables

similar to Saler when applied
to animals. This plaster produces
new bark new wood even new joints
an entire new tree from the old
when applied to the stump of a
tree which has been cut, new
sprouts in great numbers spring
up -

12.

Churn



The lower part
of the axis is hollow
and reaches above
the level of the cream
by this contrivance
air is admitted without stirring
any of the cream -
But temperature 05° Fahr.

13.

Remedy for Chews is made
as follows. A Calf's Stomach
emptied of its contents but not
washed, laid in Salt for one
month, turned every morning
at the end of the month take
it out of the Salt and wash
it in crop Milk, hang up till
dry - The size of a Crown piece
put into half a pint of boiling
water the preceding evening is
sufficient for 20 gallons of Milk
- Temperature about 90° -
- Stomach of a pigdon -
- Flowers of Sulphur macerated
in warm water will produce the
same effect -

14. Mr. Mandrell informs us that in the neighbourhood of Jerusalem the same person plows and drives the plough -

15. Patent Churn frame moves wither - churn fixed - box on the top to allow the air to escape -

16. Would not lime stone powdered prove a good manure, Chalk and other such calcareous substances - we made use of in many parts of England in various forms - Query what is the use of conducting them into lime? -

17. By raising plants from seed the result is uncertain; by slips the plant never falls off, but is often improved

18. A green house in form of a column - is an improvement - Different coloured glass - Plants from different climates -

19. A large vessel of water placed in the middle of a green house might serve to water a number of plants by capillary attraction - would

20. The blight in corn which ^{is caused} ~~is~~ effected by an alteration or resolution of the substance of the grain is composed of multitudes of small organic substances assembling cells, which when infused in water

for ten or twelve hours, begin to swell
and have a small progressive motion
— when dry they cease to move —
— renew on the addition of water — thus
for months were years after — like
the cells in paste — These last have
no other origin than the junction of
the organic particles ^{of} the most
essential parts of the grain — Now
are the first cells produced, certainly
by not by other cells — But tho' not
propagated themselves, they soon be-
get others — By the Transit we discover
smaller cells issuing from the large
— The cells from blighted corn are
a species of machines which act only
by water — Hydraulic Engines