JANUARY 15, 1914

by one competitor, and three others were over

250 bushels per acre, while the lowest yield was 180 bushels. Corn, for silage, yielded in competition 19; tons, the lowest yield being 15 tons, whereas the average for Ontario is 11.56

tario is 30.5 bushels, whereas the two leading

competitors produced 55 and 56 bushels respec-

tively. No doubt but these boys did their pest

to produce large yields, but their results com-

pared with the average prove conclusively that

yet there is a limit to profitable production.

The competitor who made a profit of only \$2.28

might not have had to go much farther in expense to have showed the balance on the wrong

side of the sheet, and we heard of one competi-

tor who produced seed corn at a distinct loss.

What must we conclude? It is plain that at

average production and average prices grain

growing for sale, especially oats, is not a get-

rich-quick business; it is equally prominent that

the average production of our acres is not as

high as it should be, but with this we must bear

in mind that increase of yield can be carried be-

yond the point of profit. And yet these results

bear out what Dr. C. A. Cline emphasized in a

recent issue of this paper in reference to dairy-

ing, that the profit lies in getting out of the

Civilization.

Detroit was jostled back and forth on the ferry

from Detroit to Windsor, and rejected on both

novelty of the free and frequent steamer trips

had waned and he became enraged at the con-

duct of the officers, he was incarcerated to be tried for insanity. If he were tried on the

American side no doubt he could easily be con-

victed, for they have wonderfully developed ma-

chinery for proving insanity in their subjects. It

is hard sometimes to conceive where the line

might be drawn, and if the mechanism were en-

couraged to its fullest capacity it might even

convict the prosecutors themselves, which in

turn would prove all their convicts clothed and

in their right mind, but this is apart from the

theme of this disgourse. . This unfortunate voyager was in search of work, and his misfortunes

awakening the sympathy of a leading periodical led them to ask, "are we civilized"? It also used this itinerant as a mouthpiece to suggest

that some form of labor should be provided for

the individual who might be seeking work and

Any such inauguration would at once inscribe "over civilization" above the portals of our

country. It is nature's plan that the weaklings

should cease to exist before they people the

earth with their own kind. It is enough that

the iniquity of the fathers should be visited up-

on the children unto the third and fourth gener-

ation, and let it be confined to the progeny of those who have sinned without burdening a

moral and progressive generation with encum-

brances that will only increase and necessitate an

enlargement of the system that was put into

provide for them that are the unfortunate off-spring of unwise parents. Many are born bind,

crippled, weak and diseased and are innocent of

through the vicissitudes of a hardened world

which could rest assured that their demise would

terminate the line of undesirables. At the same

time it is unfair to burden the state with pro-

teges who have luxuriated during the sunny

months and years of prosperity only to seek

assistance from the provident brother when

periods of depression come upon us. Further-

more this wayfaring man was seeking work in a

most unlikely place. Why must he migrate to a

enter teeming with thousands of laborers and a

community which must naturally be first affected

by any depression in economic conditions? The

country has long been calling for help, and yet

would receive with open arms a laborer willing

to work and share the lot of some of Canada's

most healthy, prosperous and respected citizens.

Yet this man hies at once to a congested center

and rebukes, perhaps, civilization because it does not establish a "sit" for him at his bidding.

fall of more than one of the world's nations,

and any tendency in the direction of fostering

negligence and lack of competition will at once

stamp, not civilization, but over civilization on

the state, and decrease the ambition, self initia-

tive, provident nature and progressiveness or our

countrymen. The time is not yet here when work must be provided by the state. There is

work in God's open country. Go work in the

The man who takes a pride in "doing chores

Chores are too important to

well" usually has sleek stock and clean stables,

and realizes as great a profit from his everyday

choring as from any other branch of his yearly

farm operations.

be slighted.

Licentiousness and ease have caused the down-

It is right and just to

They might be assisted

serve them.

sides by the immigration officers.

Not long ago a traveller from Fort William to

rut of average production.

could not find it.

to pro

transgression.

larger yields are possible and profitable.

The ten-year average for barley in On-

wholesale scrub bull

DED 1866

begin new herds. Of man in the that many head" or ices of heef

y calf from hat should of the good ow offered. duals and d road to nd retains success. beef is to t it is not of a cow

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slaughter a certain or feeding practical scrub catdo not innust have both catpoor class.

to remark s. From some dest week's esitate in vields a the averten years ne of the winner in of oats f land, of cents per profit was grown an s per acre op would of \$4.66. was high per acre, have been ight have average have been of producsideration e competiinces what to figures worth at more than e crop if man who

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Nature's Diary.

Maria Montessori

When the

By A. B. Klugh, M.A.

Dew and clouds are both formed by the same process-condensation. This process depends upon a decrease in temperature, for, as we stated in the previous article, warm air can hold more water vapor than cold air, and consequently when warm air containing a lot of vapor is cooled some of the vapor must return to the liquid

About sunset in well-watered regions, the air close to the ground is nearly saturated, as we may know from the growing dampness of the grass; and from this time on the further cooling of the ground during the night, and the consequent cooling of the air next to it, causes the continuous deposition of vapor in the form of dew or frost; the former if the temperature is above 32 F., the latter at lower temperatures. While part of the dew comes from the air, part of it comes from plants and another portion from the soil. During the daytime, under sunshine and in the presence of wind, the surface of the soil is dried, water rises from the subsoil by capillarity to supply more vapor to the thirsty air. The water which is transpired by plants also freely evaporates. But at night, drops of water may collect on the leaves of plants, where it is unable to evaporate in the cold, still night air, and water rising to the surface of the soil may remain there instead of passing off as vapor.

Frost usually follows a day in the spring or fall which shows, in the afternoon, a decreasing cloudiness and a weakening wind. When the oc currence of frost appears likely, it is often possible to protect crops from injury by building a smoky fire on the windward side of the field, so

being beneath a cooler layer. Thunder storms are usually accompanied by two changes of wind. First the wind is blowing from the direction from which the storm is approaching, as the storm comes nearer we find the wind changing and blowing towards it, then we get the squall blowing out from the storm cloud. The wind which blows in towards the storm is the warm surface air which is taking part in the turning over. The cool wind of the squall is caused by the downward reaction or from the upward expansion of the great mass of air involved in the storm cloud, and may thus be compared to the 'kick' of a gun.

Lightning is believed to be due to the electrical separation produced by the breaking of large raindrops into smaller ones. It is probable that the various parts of a thunder cloud are variously charged, and these parts rise and fall until they come within striking distance of one another or of the earth. The discharge of a flash appears to allow the union of many small droplets which were before held apart by electric repulsion, and thus locally promote the fall of rain. A flash does not follow an angular zigzag line as it is commonly represented in pictures; photographs show it to run in a sinuous path, somewhat like a river course. Sheet lightning is the illumination of the clouds by flashes which cannot be seen by the observer.

Thunder is due to the violent vibrations of the air set up by the heating and electric disturbance along the path of the flash, much in the same way as the sound is produced by the firing of an explosive. When a flash occurs near the observer, the sharp crackling reports first heard come from the smaller branches of the flash, the heavy crash immediately following comes from the

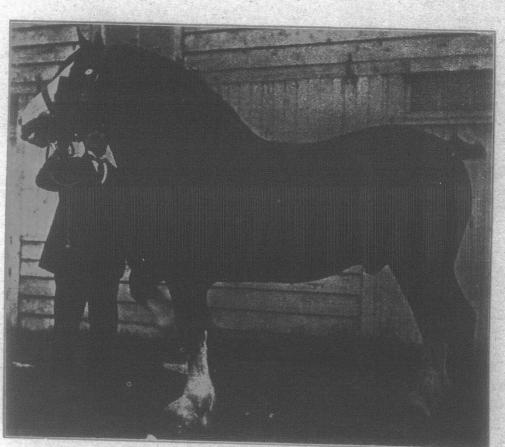
trunk of the flash, and the rolling thunder is due to reverberations among the clouds.

As sound travels through the air with a velocity of about 1,100 feet a second, the distance of the flash may be estimated by allowing a mile for each five seconds between the flash and its thunder.

The aurora borealis or Northern Lights, is an illustration of the atmosphere in arches, streamers or sheets of whitish, yellow, green or red light caused by electrical discharges chiefly in the thin upper air.

The comments of readers in renewing their subscriptions for the current year are both encouraging enlightening. a n d One of them, which is a duplicate of many others addresses: "It is never failing relief to me to have a paper coming along every

week that is not only worth money as a real help on the farm, but a safe and cheering visitor in any home. I like its clear-cut, candid statements even if I may sometimes see things differently. I know 'The Farmer's Advocate' is staunch for the farmer every time, and speaks its own mind. I would not be without it for \$5.00 a year."



Marathon.

Clydesdale stallion, well known to followers of Canadian shows.

that a dense layer of smoke may drift slowly over the surface. Radiation is then transferred in great part to the smoky stratum, and the injurious fall of temperature at the level of the ground is efficiently prevented.

Clouds formed at temperatures above 32 F. consist of minute spherical drops of water from one thousandth to one four thousandth of an inch in diameter. Those formed at temperatures below 32 F. consist of minute ice spicules. Cloud particles are so minute that they fall very slowly through the air, and a very slight ascending current is sufficient to bear them upward. When their size increases by continual condensation, they may become large enough to fall and thus rain is produced.

There are three fundamental cloud forms. The high, thin, fleecy clouds are called cirrus clouds; the heaped-up clouds like huge masses of wool are termed cumulus; and those which lie in level banks are known as stratus clouds. Between these fundamental forms we get many intergradalions, as cirro-cumulus, cirro-stratus, and stratocumulus. A cloud from which precipitation is taking place is termed nimbus. The huge "thunder-heads" are, therefore, cumulo-nimbus

The height of cirrus clouds in summer averages six miles, of cumulus clouds one and a quarter miles, and of stratus clouds one-third of a mile. In winter the average heights are a little less.

Thunder storms are due to an overturning of the atmosphere. The atmosphere is in a condition of instability owing to a layer of warm air

THE HORSE.

The experienced horsemen like to train their colts when the snow is deep.

If a gelding is being fitted for sale, finish him before offering. A horse in good fit commands the top price.

Shoes kept sharp, at least in front, are a good investment on the brood mare. A little slip may mean a grave loss.

Get the colt, to go into spring's work this year, thoroughly accustomed to being driven, drawing light loads, etc., now while time is not so precious as it is later on.

Where is the stallion to-day? Is he in a little, narrow, dark, dingy stall without care or exercise? Exercise is important now as well as later on when the season is approaching.