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No. 983

## The Clearest-Talking and Loudest - Ringing Telephone Constructed

THE accompanying illustrations show our 1 Standard Type of Telephone for Rural Party Line service. It is the clearestthe market.

There are many features exclusive to this telephone, They are the result of our exper requirements. An examination by a man with a knowledge of telephone construction will prove that this telephone combines th utmost efficiency with the greatest simplicity
A reference to the illustration of the " open "telephone will give you an idea of
our method of wiring. Notice that our circuits are made into a cable, there being no


Each terminal is equippee $w$ :th a German Silver Spade Clip, which insures. , hetter contact and permits the disconnectice: of any
terminal, without damage to wire aul withterminal, without dan
use of soldering iron.

The circuits are distinguished from each other by different colored wires, making it an easy matter to trace any circuit desired.
WXith each telephone is included a diagram of the complete wiring.

If you are familiar with the construction of telephones, you will notice we have dis
carded the old method of using hinges carded the old method of using hinges in
transmitter and ringer circuits, which was objectionable for several reasons.
Another evidence of the simplicity of construction of our telephone is the generator.
It is so designed that, by removing just on screw, the generator, shelf and all, may be lifted out for examination
Another simplicity feature is the hookswitch, which is self-contained. And the re-
ceiver hook may be snapped into place or ceiver hook may be snapped into place of

When you answer the call sounded by our new chime gongs, you will have evidence of still another improvement. You will notice
that there is no tingling, no vibration, no buzzing sound. That is because we have fitted our ringer with a dampener which automatically stops the vibration from the bell
the instant the receiver is lifted from the the ins
The material and workmanship throughout are of the very highest grade. No fibre is
used, the insulations being of hard rubber. We take pride in the fact that here in Can-
ada is produced a bridging telephone that is ada is produced a bridging telephone that is net surpassed by anything offered to the
telephone trade at home or abroad.


Each telephone is pached in a separate box, ready to go on the wall. It is fully equipped, including push-button batteries,
condenser, and carbon-disc lightning arrester.
FREE TRIAL If you are going to replace some of your old 'phones with cuw ones, or are just startOFFER, whereby you can judge the quality and efficiency of our telophones before spending a dollar.
If you have any telephone problems to
solve, consult with our at the service of any municipality or are pany requiring assistance in regard to the best methods of construction or operation of We carry in stock everything in construction materials. And we have increased our ship orders within forty-eight hours.

The Canadian Independent Telephone Co.,


# The Farmers sAdV Home Magaza 

Vol. XLV

## EDITORIAL.

With something of the same consummate in production, and the same superb enterprise in cise, what marvellous possibilities lie ahead Canadian apple culture

That swale basin in the field ought to contain richer soil and more moisture than the higher Drowned out first, and then evaporated Why ? rain will cure the trouble. For proof, see that field on the next farm

Whether it is because of the added fertility or increased capacity to hold moisture for the growing crop, or both, if anyone wishes to see imme diate and tangible results, let him top-dress his meadow or grain field as the manure spreader does. It will not require an overcoat dressing to satisfy him, either.
I. P. Roberts, director of the New York Col lege of Agriculture farm, when the boys had got the land all in fine shape, as they thought, for teeding, would come along and say: "Now, jus right." This expresses the idea of some "Farm er's Advocate " correspondents on the subject of
soil preparation for spring grains in a dry season.

Shorthorn breeders with their ear to the ground will not miss the rapidly increasing attention be ing paid in England and elsewhere to milking function. One of the best classes of Red, White and Roans at the Royal this year was the dairy Shorthorn cows. Even in the sections devoted
specially to females of the beef type, in this as specially to females of the beef type, in this as
well as other breeds, the cows must be in milk.

Some individuals look upon the agricultural calling through the wrong end of the field-glasses and see only a mean, diminutive business, where
as, if looked upon properly, it does not need any great care in focusing, or any powerful lens to reveal it as a substantial, remunerative and satis
fying business, worthy of the strongest fibre and the most active, fertile brains of the land.

Abolition of the public drinking fup, and sub stitution therefor of drinking fountains, is the new
idea in city sanitation. It has been calculated twenty thousand human cells or bits of dead skin, hundred thery square inch of the glass were a of saliva deposited by the drinkers.

President Wm. H. Taft makes an effective answer to his predecessor, Col. Roosevelt, who raises
his strenuous voice against the proposed arbitration treaty with Great Britain, even where mattaft showalled national hror people should voluntarily impose limitations upon the exercise of their powers. The individual is neighbor by his own might, using his fists, a club or a shotgun. That is not Christian ethés, but
rute paganism. If a bad rule for indivinale rute paganism. If a bad rule for individuals,
f,ONDON, ontario, July 27, 191

## Automobiles, Roads and Dust

 dust nuisance has been aggravated almost to the limit of endurance during the severe drouth the editors season. For two or three years the pondering this matter with advocate " have been tion, but this summer's experience has, in a prompt, effective measures to abate the nuisance" The Farmer's Advocate " farm adjoins a leal ing gravel road much travelled by automobiles, Fortunately, the house stands back about an crops are subiected to the daily dust 100 rods doubt the dust was bad enough here before motor cars came into vogue. Since their advent it has become worse. Day after day one can look out and see them shooting along, some in utter defiance of speed laws or speed sense. It is not unalmost the full hundred of dust following them farm. And hundred rods frontage of the aised? Over the neighboring fields it spreads coating trees, shrubs, small fruit bushes grass, rain and corn with a sickening white-gray con f bitter dust, which not only hinders their crowth, but in many cases renders the small-fruit One of the most conspicuous cases of thiscount. is the "Stone road," from Hamilton to Niagara Falls. Automobiles fairly swarm along this road the injury, as it does, through a fruit country, Wentworth and Lincoln have been spending con siderable sums oiling this road, with some degree D Dundas St., the main artery leading out of T , ronto to the west. While fruit and vegetables are hardest hit, hield croos also suffer. Think of feed ing horses hay cut during a dry time in fields Ronce slich a road! Even for cattle or other Grain is dusty to thresh and all nor wholesome me in is or less serioushy and alt other crops must sufe to say that hundreds of thousands of dollars worth of iniury is beinct done the crops of Canad every year by automobile dust. And what of the roads themselves? One of the dust is sucked up, by the pneumatic tires, or the side of the driveway. Aiter a rain, that hot Low wheel track of six or eight inches deep stands full of water to soak down and soften the roadbed, paving the way for rapid disintegration of the gravel bond, which leaves the stones loose and bare. The principal injury, so far as the roads themselves are concerned, is done by heavy A forty horse-power machine, run to its capacity', will do far more than twice as much harm as a twenty horse-power. In England, where motor
cars are used much more than here, the cost of maintaining the first-class macadam roads has in creased from 50 to 100 per cent, according to locality. W. A. McLean, Provincial Engineer Highways, estimates that the cost of maintaining the well-macadamized main roads in Ontario has in creased 100 per cent. The injury to earth roads point coratively much less, and it is but fair t point out that our mileage of macadamized or

## ess, the aggregate injury done to Ontario high

Of the discomfort and unpleasantness endured by users of the highway, we need scarcely speak onkle dust is hore ust is fill enough, without having one's lungs or or motor car clothes one wears under come a very unfashionable aray Again wher houses are close to the road, the residents cannot leave their doors or windows open without having their houses filled with dust. Even automobile users themselves, while they may usually succeed in keeping out of their own dust, cannot escape that raised by fellow autoists, and nearly all of them would doubtless be willing to contribute to some effective means of laying the dust. We have, then, three serious phases of the dust nuisance
. Injury to crops
3. Great personal discomfort to users of the highway and persons who dwell near it.

It must be recognized that automobiles ar here to stay. While scarcely sharing the san guine anticipations of enthusiasts as to early uni ly in the North, where winter snows interrup their use, and while expecting that the fad motoring will be superseded in time by some other amusement, we cannot escape the conclusion that motor vehicles will continue to be largely employed ior pleasure purposes, and increasingly for business. Tens of thousands are already owned by American farmers, and hundreds by farmers in the Pacturine where this is written. The Ford Manu100 ping Company has for years paid dividends of that, when the parts standardized there is little the cost will be cut away down dond then numbers will be used. This will greatly increase the present heavy strain upon the highway.

There being no early hope of removing the ngaces the communities sprinkling with petroum village has been resorted to, and in spite of an or isagreeable to unaccustomed nostrils, has given oleramy satisfactory results, at an expense of s two hundred dollars per mile. While this wine migh, it is not so high but that we would ningly co-operate with our neighbors to pay poportion of it for the sake of protecting the curs. But why should we be called upon to inthat $M r$ expense or sustain such loss, in order onto, and Mr. Brown, Mr. Smith, of Tohe dust " along our farm, creating besides, ertain risk to life and limb?
Divesting the discussion of all bitternas not fair and that therness, is twenty dollars' worth of injury to the ten or front of the farm, and twenty dollars' worth of injury to the crops upon it, should contribute hat amount in taxes to recoup as nearly as may e the ones who sustain the loss? These ones build and use the roads, and the men with prop erty adjoining the highway.
the Farmer's Advocate and Home Magazine

## fhe leading agricultural journa

 in the dominionthe william weld compayy
john weld, manager

## Agents

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THE THE FARMEE
 THE WLLIAM WER
$\qquad$
Accepting the fairness of the proposal, how i
it to be worked out? We see no better than heavy taxation, collected in the form of ficense fees, the money thus collected to be applie to the treatment of roads. It might, in part, gc
towards annual oiling or tar spraying to abate the nuisance, and in part towards the construcdustless, and resist the severe er are practically traftic. Roads of this type are expensive, costing some eight thousand dollars a mile, hence would travelled be economical, except on a few maincessions and sus. diciously selected periods is probally the best so lution in sight

The present automobile
light as to be scarcely more than nominal. Pee haps it seems heavy enough to a person of scant
means who has already strained his resources tu buy the machine and keep it up, but such a one
should not have boucht. The man who cunct afford to pay taxes on an expensive city resillence has no option but to sell. Likewise, we consider it a fair position to state that no one should run
an automolile whio is not able, through the purchase of his license to recoup the public for incon-
venience or injury to venience or injury to roals, crops and person.
There is rason to believe that a proposition to increase the tax on antomotiles would not he
seriousl: oppose:l by users of them as a boll: The motorists of Ontario have, semi-oflicially of fered to contribute 50 cents per horse-power, thut
very properly ask that they be given something form of eneral road somet hing shomald take the form of घeneral road improvement according to
some well-nefined phan. The present autonolvile feur pays $\$ 1.00$ for his license, and 50 cents a year for renewal. This taxation produces a total Tegislature has adopted the following tarif? Fer
purposes. $\$ 5.00$; for others of 25 horse-power
less, $\$ 5.00$; from that to 35 horse-power, $\$ 10.00$ rom 35 to 50 horse power, $\$ 15.00$; 50 horse toba last year introduced a Government meanise roposing a similar schedule, except that cars having over 50 horse-power were to be taxed ranging from about $\$ 5.00$ to $\$ 50.00$, according to power. The state of Massachusetts, to relieve roads, has imposed an annual tax of from \$2.00 for motor cycles, and $\$ 5.00$ for commercial aulto mohiles or trucks, up to $\$ 25.00$ for 50 horse power and upwards. In England the tax rance power, the fund thus derived being administered by a newly-created road board.

It is clear from the foregoing that the fair principle of taxation for road maintenance has enactment. There is, we believe allized in legal to be made out for a much heavier scale of taxes on motor cars in America generally, in Canada Sarticularly, and in Ontario more particularly pecial provision might, perhaps, be made for
temporary licenses for visitors, at a reasonable rate. The fund should, in our opinion, le earmarked for road improvement, with a special view for a broad constructive nuisunce. Here is scope ere a proad constructive policy which promses mpeed than the orninary ineffectual efforts to litit speed and determine just where a motorist shol:
stop at the upholding of a distressed teamster: hand. What say our readers

## What the Imperial Conference Dia

nadian represent tives from viewing the Coronation splendors o at King, and sharing in the Imperial Conference fresh that, while supremen reflection, will realize atresh that, while supreme sovereignty is nominal-

ly vested in the Crown, the real power is themselves. And the people are minded to with it that way, though they still like the ceremonial pageantry. It is an uninformed view to say that lion, or his office without its uses and safoty what we call a "limited Monarch

An important decision of the conference between C'anarda, Anstralia, New Zealand and South Airica was the appointment of a Royal Commission to their trade resources and report upon ment. The various Dominions share in the cost mind of the Conference as nanimonsly, it was the information than to counsel taking a leap in the dark in regard to rerulating the trade of the what is called Imperial fone in the direction of Council of Empire, which might involve the
$\qquad$ antomony, jealousily guarded particularly by Australia, South Africa and C'anada. At tine of the
functions of the conferenca South Arican Inion Parliament. Mr. Molteno should keep its own house in ordor ach dominion Own corner of the limpire strong. The strenuth
of the indivilual part was the whole. Fach flominion is the strength of the own homse, but contributing as much as of it s to the "nll heinu of the Empire as a whole. This anitue: there has never been ansthinge inded toon to make the it hufore. Were some great na-
$\qquad$
$\qquad$ hese dominions retain incmatals the control of heir own armies and narims, and the richt of

to the aid of the Motherland. One very signith e fort impore of this ish Secretary of Foreign Affairs, Sir Edwer Grey, discussed fully and freely, as never before with the overseas representatives, the foreign pu icies and relations of the Empire. This candid insight into the momentous alliances, intricacie and responsibilities of the Empire throughout th quence disposed way of rumning to

Certain principles were laid down by the Conference regarding vessels and shipping laws which will tend to greater uniformity throughout the Another step in advance was when the most-favored-nation clause was amended. Hereafter the overseas dominions will not be bound by this cause, but will be free to make treaties with can. The British Government terms they treaty to suit the N resoltion wher sity of cheaper rate and, if this were not forthcoming and owned cable would be laid between Canada and he motherland.
A forward stap was taken to bring about more pire. Heretofore, a Brits citizents within the Emwas not necessarily one in any other part of the Empire, but the Conference decided upon a fiveyear term, which will make a citizen of one part

The question of an improved penny postage
was dealt with, and also the establishment of common Empire Day, which will probably be June ra, the birthday of King George V., in which These Imperial will be dropped. every four years, but may be called at any time should emergencies arise. By bringing the home and outlying Governments into closer touch for gatherings are of their common interests, these their representatives and an educational value to the people as the knowledge and sentiments for-

## Pauper Labor

Among all the excuses pled in favor of protec indefensible is the allered need how and priced labor from the competition of pauper high in foreign countries. In the first place any all-round protection of that kind is impos sible, since the basis of each country's commerce is its exported surplus of certain commodities sold the world's markets where they must seet at foreigh competition from the countries whe As illustrating how a community in which vages prevail can competo with anoth wages are in vorue Goneressman Redfeld New York, made a lucid and convincing compariapan, twenty women with saw piles driven in These women were paid 20 cents a day the pile would have cost in New to drive those piles as it e, and often is, dear labor. Eheap labor may ity, management and invention, are more impor-
tant factors than ant ractors than wages in determining the cost of there are certain industries in which Of course, not yet displaced hand labor which invention has those industries to countries any extent. Leave cime is worth twenty cents a day, import thats frollucts, and pay for them with the export the mhustries in which a man, with the exports of hinery, can carn two, three, four and five of ma


In the Track of the Automobile.
Photograph taken near Lo ndon, showing how the pneumatic tire has sucked up and pushed aside the dust解

## School Gardening.

The rural-school board that is not alive to the ate school-gardening and elementary agriculprogrescive Canadion selves. Those who done in this department may be skeptical being 0 ly carried out by a teacher who knows his busiand girls, is to be persuaded that the beginning of a new country life has been made. ginning The plot where the boys and girls do their garden is prepared. It is again wrought up in
gate and ather good the spring, and then carefully laid out in plots of five hy ten feet, a plot being assigned to each
pupil, or, in cases where deemed wisest, one plot is shared by two pupils. Each youthful gardener lays out his little farm. He is supplied with
seeds by the Education Department, but he is lowed to supplement this by seeds of his own choice. He is informed that his plot will be judged about the end of June and the first of
October, along some such lines as planting, tillage, educational value, and economic value, the meaning of these terms being fully explained to them.
The actual labor involved cannot be great, nor can the time occupied in doing the work thought that may be expended and the lessons learned are almost unlimited. At one judging
contest, experienced farmers and gardeners were contest, experienced farmers and gardeners were
surprised at what these tiny plots taught or suggested. This was particularly the case regarding the value of the dust mulch. The pupil who used the watering-can, but who failed to cul-
tivate, was left hopelessly in the rear. The pupil with the best dust mulch had by all odds the best plot. It was demonstrated that weed-killing is
only one reason for cultivation. In the same way was shown the folly of overdeep cultivation, as by
this method the rootlets are frequently destroyed. A further point was made in the importance of having a succession in the garden.. A little fore-
thoneht exprcised, and it was shown how much a garden's yield is increased by having vegetables follow one another. Radish and beet seed, for
instance, may be sown together. When the radishes are used, the beets are thinned and weeded. and earicuiture does not consist in what the pupils actually accomplish. It consists, rather, in the new interest aronsed in agriculture, and in country life generany, for too long have counlated affair that carried on its work quite separate from the practical necessities of life. This new activity brings farm and school together.
Science is no longer looked upon as the pursuit acience is no few farored ones in school or college, but is boys and girls are taught that hand and brain work together. and that the man who toils may
he also a man who thinks. Rome was not built in a dav, Rural Ontario will not come to its nwn suddenly, but if trustees will use this new
school-gardening and elementary arriculture sym school-qardening and elementary agriculture sym-
pathetically, a long step in advance will be taken " But the liberal deviseth liberal things, and hy liberal things he shall stand." Th's is not

## The Verdant Gpass

Nothing else seemed to revive after the recent rains so noticeably as the grass. It is wonderful
what an effect even a light shower has on this crop During the dry and the early part of July the grass fields became brown and parched, and the grass had a dead appearance, but immediately following the first grass, and soon the brown fields up sprang the arain Juman sill con mote heavy production. Rain is essantial, and this is beyond our control, but we can do much to assist nature in producing an abundance of feed by using good judgment. Give the old pastures a rest for a short time by turning the stock on a very short time they will grow up to a sufficien length to make excellent fresh feed, which will be relished by the stock at this time of year The change will benefit the animals, and more satisfacfully managed.

## HORSES

It is easy to soorch a horse when the tem
perature is hovering around the hundred-degree

After-harvest tillage is now in progress. This is heavy work on the horses, and the summer them carefull.

New oats will soon be in the feed bins. Feed
these with care, as too heavy feeding may cause
digestive troubles. It is always hetter to have digestive troubles. It is always better to have
old oats for the working horse.

Where grain is scarce, a few cut oat sheaves can be used. These are relished by the animals, but, like the new oats, must be fed in limited
quantities until the horses become accustomed to
them quantit



The driving horse or saddler does not require The driving horse or saddler does not require
the same feed as the work horse. His feed must be that which will promote endurance. Pure clover is not satisfactory. It is too loosening
and causes a washiness in the horse that is con and causes a washiness in the horse that is com-
pelled to do fast work. Timothy seems to be one of the best grasses for the driver, though many horsemen favor a mixture

Trotting a horse fast down long and steep hills will in time cause him to become knee-sprung, but
don't expect that trotting him up the hills will counteract this tendency or straighten the already sprung knees. A change of gait on the road is always easier on the horse, and if he trots on level roads, $h$
down the hills. $\qquad$

Sore backs are quite common at this season Much of the summer work, as mowing, horserak
ing and reaping, is conducive to this trouble ing and reaping, is conducive to this trouble.
Where sores appear, remove the harness 'every time the team is stabled, and bathe the sore parts often with cold water, and apply a lotion made of one ounce each sulphate of zinc and acetate of
lead, mixed with a quart of water. Remove the cause as much as possible by adjusting the backband and keeping it clean and free from the exudate of the sores $\qquad$
A writer in the Live-stock Journal states that age has more to do with the production of foal year-old fillies, if well matured and sufficiently do yeloped, breed as readily as mares of any age
Doubtless some have wondered why it is difficult Doubtless some have wonde mares with foal, and to get three or four-year-ber of foals produced by mares of this age is so small. The cause of their not breeding is given as the teeth, which are
troublesome at this age, and which, it is said, cause an inflamed condition of the mucous membranes. Mares between the ages of seven and cleven years produce the largest number of foals,
and comparatively few foals are prodiced by mares over fourteen years of age, and these few by those which have been kept breeding continubreeding it important that an old mare be kept breeder for many years. Allowing them to re main open for a year is risky, and it will often be found a difficult matter to breed them again
Horse-breeders cannot afford to let the mares miss a year, because very often, especially if they are ged mares, they will never breed again

## LIVE STOCK.

A Point in Selecting Breeding Stock
That a knowledge of the breeding back of the individual is necessary in selecting breeding stock is kept on an extensive stock farm recently visited The young stock were a thrifty, growthy lot, an every pen had individuals in it which looked good
enough to justify their being kept for breeding enough to justify their being kept for breeding
purposes. They were long, smooth pigs, of good purposes. Troy wer the age, and had every appearance of being the right kind to produce
high-class stock if used as breeders. high-class stock if used as breeders. Looking lieve that they were the progeny of high-class sows, and that their breeding was all that could be desired to make them high-class, grade breed ing stock themselves.


IHE FARMER'S ADVOCA'TE
their good qualities the joung stock and noting of the brood sows was rather disappointing. The
sows did quality exhibited by the youne near the amount narrow, somewhat rough, with long, narrow we poorly-arched backs, narrow loins and rumps and the conformation and a little thin, they lacked in their brood sows. Anyone beeders desire brood sow would, upon looking over the for stock, have been able to select several sows of pected nothing but high-class affispring have ex when mated with the right kind of boars : them a discriminating buyer had seen the dams of the not buy the young stock probable that he would did, the results could not be expected. If he satisfactory as anticipated before the young sows' be used as a breeder with from such stock cannot of the ofispring, and this class as to the typo while consisting of good individuals, is undesirabl version is lig purposes. A certain amount of and too much care cannot be exercised generation the breeding stock. In buyingercised in selecting point to see the kind of stock that the animal has erves to acquain pure-bred stock, the pedigree stock from which the animal with the kind of it is absolutely necessary to know, something the breeding and conformation of the sires, dams the individual ancestors is also pedigreed stock. Too much information with be had about the blood lines of the animals be going is a good illustration purposes, and the foreson may be deceived in purchasing easily a perknowledge of the con in purchasing without a
the ancestors.

## Cows that Give Milk

Royal Show of England is the prize list of the three years old and over in all cows and heifers ang must be in milk this rule the breeds compet those commonly called dairy breeds, but only compose generally regarded as beef breeds. ically much stronger than classes being numera separate class is given to Dairy ther breeds, and the Scottish Farmer, in its report, says, "t there was no more useful and interesting Section there seen.", and magnificent dairy cattle were

THE FARM.
Fall Preparation and Early Seed ing.
Wher The Farmer's
week's issue contains sound advice crops, in this ask your the principles of good farming. an epi ences with this season's crops, that may be of use to others in the future. I should may be of use
first of all, that to say, present, we have had a drouth in the ap to the son every ten years; that is to say, the year
$1861,1871,1881,1891,1901$ and 1911 were try years, with short crops. It is also interesting to was favorable, and crops good. We do not trust us. We have taken a deeper itten records befor in studying crop conditions this year and we us been more impressed than ever by the fact tha avors the up-to-date and up-to-time farmer ever
year. I note that. on soil in y prepared, and sown early, crops are making a conditions have long been hanging out signals distress, and are slowly dying for want of mois In this locality, weather conditions were poo perature to middle of May, after which the day tem$\dot{w}$ as very great. Plants with a poor root system,
in a shallow and ill-prenared neet the demand made by the fierce heat not and sickily growth, while crops we see, a stunted under proper conditions were prepared to meet or verse conditions, and have at present every apWe do not lose sight of the fact that there are no skill or forethought could produce a full crop in a season like this. To the owners of these we extend our sympathy, and we would cheer them
by the hope of a better crop next season. It is plain to all that fall-sown crops-wheat, rye,
clover and grasses-suffer least from drouth, as
they make most of their growth in moist, coo
weather. Farmers, therefore, with such soils
should aim to have should aim to have a large portion of these crops
Then, with the hoe-crops, by manuring the ceding crop, or putting manure on in the fall, and sowing the crop at the earliest date, and so get ting the advantage of the cool nights and carly
showers, there is less risk of failure With fall-prepared root around always gives the bes results. We cannot do, by any human process what the winter and spring frosts accomplish vantare of their generous hy not, then, take ad common practice here to plant potatoes late
without cost or labor. Why not, then, take ad- This has given a splendid stand. On two other
vantage of their generous help? It is becoming a acres, sown on spring-plowed sod, the same kind
common practice here to plant potatoes late, say of seed never germinated. The land was worked
the last week in.
peas for field crops. I never saw peas better
podded. Cnfortunately, the blachbirds found
them, and came in such Chem, and came in such numbers that they prac courage the growth of these to combat noxion weeds, as they ripen before the weeds. Where the bea-bug is not prevalent, early-maturing varieties are much the best yielders, as, where sown early On one acre of our mangel crep sets in. 300 This salt, and cultivated it in before sowing. of seed never germinated. The land was worked untm and somm to

Hackney stallion; two years old; chestnut. Fireroy Royal Show, chestnut. First in especially in a season-like the present weakened by repeated sprouting, and planted at duce a full crop or to fully can it have to proeven should the drouth soon break ? its tubers, taken from such a crop for next year's plantind cannot but be low in vitality. ${ }^{\text {True, early plant- }}$ ing this season is showing signs of ripening ing this season is showing signs of ripening, but good. I notice, in our experimental plots quality we have five varieties under test, that planting
the sets eighteen inches apert the sets eighteen inches apart is showing planting
sults.
Fvery

Warton Draughtsman
Gampion Shire stallion at the Royal Show, Norwich, 1911. Fxhilitiod hy
lowed by a stroke
 which the soil is quite moist. The vines appear top soil, by holding moisture, places the land in a
healthy, and give no sign of lack of moisture condition for the deop falt
thourch then though the growth is slow. The grain and corn dry weather and hot, parching fall plowing. The under experiment are all vigorous and healthy and early fall cause the ground to become summer


germinated, but the
he a t destroyed
them. Had this
land been fall pre-
pared, and treated
as the other acre,
it would have given
as good resulta. We
have worked it up
again, and should
the drouth break
before August 10th,
we will sow to
Aberdeens. We have
known them to do
well sown on that
date.
FOYSTON BROS.
Simcoe Co.. Ont.

After-harvest Cultivation. Harvest timo has more, the fields ar ast whitening, anv
many of them have maneady of theem have ne crop is of th land, the off the must set to work
to prepare his land for another. On been seeded to grass should be lost in getting stubble land cultivated. All age is a vecessary for this early after-harvest tillshould be stirred and worked. A few years ago gang plow. This plowing was donall two-furrowed inches deer, This plowing was done about three soil down to pulverize it. It is now necessary the cover more ground in a day, and, as a deep cultivation is not needed, it being only necessary that
all the top soil be pulverized, disk harrowing or
cultivating have taken the disk harrowing or
ace of shallow plow-
 when the land is so hard as it often becomes when cultivation are the moisture which
cause the soil to to
pllow easier later on and the sprouting of
the weed seeds. destroyed my by be be
quent cultivation o check evapora-
on, and thus connly a light, fin
nulch is necessary horough diskings or
'HHE FARMER'S ADVOCATE
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$\qquad$ preciated by the horses, and much better work is
possible. Metal Buildings and
$\begin{gathered}\text { Protection. }\end{gathered}$
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$\square$ that the silo should
be roofed, but in
hundreds of cases
$\qquad$
$\qquad$ summer feeding, the
silage in an open
silo is very much silo is very much
more liable to fer-
ment a n d spoil
after heavy rains.
$\qquad$
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$\qquad$ has secured informa-
$\qquad$
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a tasteful-looking
roof, at $\$ 200$, be-
sides his own labor.
sides his own labor.
The wall is 14
inches thick at
tom and 9 inches at
The connecting wires must be securely fastened to barrels of cement. He expects top and required 57
$\begin{array}{ll}\text { the ground connections. } & \begin{array}{l}\text { barrels of cement. He expects ten acres of corn } \\ \text { to fill it. } \\ \text { H. J. Barons, after having a lengthy experi- }\end{array} \\ \text { SIZE OF CONDUCTING WIRES. } & \text { ence with a cement silo on another farm, }\end{array}$
In the matter of conducting wires, the United it so desirable that he erected another on his on his
States Weather Bureau, in a bulletin on Light- present place. He did a good deal of the work
States Weather Bureau, in a bulletin on Light-
ning and Lightning Protection, recommends a No.
himself, and kept the cash outlay down to about
3 galvanized-iron wire as amply sufficient in size
his. $\$ 85$. It is five feet under ground. This helps to
for ordinary lightning protection. If metallic
for ordinary lightning protection. If metallic keep the silage better in summer, but in such
down-spouts are used as conductors, the connec- cases, usually, drainage is essential. His silo is
tions should be made with the "grounds" with $12 \times 36$ feet, and he owns the set of rings used in
tions should be made with the "grounds" with $12 \times 36$ feet, and he owns the set of rings used in
riveted joints. Copper conductors give no better its construction.
protection from lightning than iron, if the iron is one could not ask for a neater-looking or more
kept covered to prevent it from rusting.


'"Pointon Cracker 4th Wire fences are often the cause of every ring. The total lightning because of the method of construction. feet 1 inch across in jamb, by 2 feet 9 inches
If the fence wires are grounded, the danger from high. $\$ 160$ in cash. It has five doors 2 If the fence wires are grounded, the danger from high.
this cause will disappear. Ground wires may be
made of ordinary fence wire, and should be con- feet, 12 feet inside diameter; wall 14 inches thick
nected with each of the wires of the fence, and at bottom, han bilt silo in 1910 ; height 35
$\qquad$
$\qquad$

THE FARMER'S ADVOCATE
at $75 \mathrm{c}-\$ 7.50 ; 325$ pounds for -inch round iron
silo, complete, including floor and and building ing, 878.50 ; about 13 days with man and team say $\$ 35.00$; total, $\$ 187.80$, which, with roo yet to be put on, would bring the total cost to
about $\$ 200$. Material mixed 1 cement to 7 gravel. It would take, he estimates, about
acres first-class corn to fill it. Six acres filled 25 fert up last year. The silage kept fine right to the wall, though there was a little trouble
with snow, wet and frost on the north side. Ther was no drying out of the silage at wall. When roofed, Mr. Jackson will be entirely satisfied with his silo. Three ba
to wash the inside.
 farm).-Silo 16 feet inside, by 40 feet hign erected in 1910, completed a couple of weeks be fore filling; $2 \frac{1}{2}$ feet (one ring) in ground; base
of wall, $18{ }^{\text {in }}$ inches; at ground, 10 inches, taperin 5 up to above one-half way up, where it continues one $3 \mathrm{ft} . \times 2 \mathrm{ft}$. 6 in ., top one a little smaller opening 12 inches square for blower pipe about $7 \frac{1}{2}$
eet from top. Cement work at $\$ 3$ per eet from top. Cement work at $\$ 3$ per foot, inboarded at 20 c . per meal. About two rings per day put up; Portland cement used, with good sharp gravel; excellent wall, hard and smooth, well-matured white-cap corn, but one-third to oi half of it was short. Mr. Brown thinks on an average of about 20 acres of corn would be nee'e.
No trouble elevating with blower and steam gine; silage kept well right to wall; no trouble with frost so long as kept down level, especially at wall ; none spoiled through large surface; fed 35 to 40 head; mature cows got about two bush-
els per day with cut straw. This heavy silone els per day with cut straw. This heary silage
feeding was because of shortage of other fuocis, but no beast went off feed; about three feet, corered with six inches of straw, left for summer
feeding. Mr. Brown thinks probably $14 \times 40$ en moding. Brown thinks probably $14 \times 40 \mathrm{ft}$.
would have been large enough. Stuff from blower should fall in center of silo ; large silo requires relatively less tramping; had three men tramping and levelling. The materials used were $57 \frac{1}{\frac{1}{2}}$ bar-
rels cement, at about $\$ 1.45,13$ cords at 75 cents; hauling gravel in summer by gravel man, $\$ 61.75$; building wall, etc., at $\$ 3.00$ per oot, $\$ 120.00$; reinforcing rods, ${ }^{3}$-inch, $\$ 10.25$, $\$ 300.00$. Two courses were laid per day and each evening on the top of wall an old horse shoe was bedded about half way in, prongs down every five feet, to form an extra bond with the
bottom of next course, laid the following morn$\underset{\text { cement si }}{\text { ing. }}$ sible in the cement-concrete to make as as pos July 5th for summer feeding duiry uncovered o being short owing to dry weather. Except a lit condition, and was fed about half a bushel twice Benj. Holtby has a fine-looking silo, roofer to try to farm without it. The size is $14 \times 371$ feet; foundation wall, is inches thick, 12 inches
at ground, to 6 inches at top four feeding out, $2 \times 3$ feet; cement four openings for ground below bottom of first window, the sit
being naturally well drained. coment, side. Not including teaming and roof, the cost wa
some 8210 some $\$ 210$. Mr. Holthy does not begin feedin especially, to hold a cood supply for summer and suffer from close croppine. short and meadows opened it the first week in July, This season he sound, solid silage ; fed mature cows half a bush el each night and morning. Some younger stoch it greedily. "In fact," observed Mr. Holth keep them away from the barn." He He fields $t$
expect to have On the day that several of the shop-wall silo,
were visitect, three built of hollow were also seen, owned by $A$. (iraces, Thos. Har
is and Henry Harris, which presented a very fine to have kept well, with no tronible from frempint
 being well reinforbed, no futhere trouble is antici paterfing the alsence of the owners at the tim.
of calling, details as to cust were nut a a allatle.

Experience with summer and autumen sumbin seeded
sowell,
results.

A Substantial Country Home.
Among the most satisfactory evidences of rural of wind and rain would lay them flat. This field planted modern country home tasteful and well- vation as two others sown April 28 sth and May are purposely published in " The Farmer's Advo- 6th, respectively. There are some tile drains cate " from time to time. This week we have A storm of hail has passed through since whose farm consists of 100 acres, all cleared and the fine crops threshinir the barley apyearance of under cultivation. Mr. Webster follows a system riddling the corn. of mived farming, including dairying (sending
crean to the creamery), hog-raising. and poultry and also tries to raise some Clydesdale horses every year. He feeds all the coarse grain pro-
duced on the farm, and also grows corn for silape


Aldersyde
The house was built in the year 1900, and cost
dite of his own labor for teaming, cultivator or gang are by using a disk harrow, heated with a furnace, and the bath-roomiences, latter method, especially if youl wish to kill wash-room are supplied with hot and cold water thistles. The gang-plow has at least three ad

Thorough Surface Cultivation. $\begin{aligned} & \text { cutting few weeds, while the shares of a plow miss cultivators miss } \\ & \text { many. The plow also inverts the surface soil to } \\ & \text { any required derth }\end{aligned}$ Editor any required depth, placing all weed seeds ly to fer materially from that of other farmers in this mators sure to germinate, while the best that cultvicinity. For oats and barley, the ground (clover with the soil tisk harrows can do is to mix them od and corn stubble) was fall plowed to the with the soil, leaving many uncovered and others


Dewdrop 1st of Old Graitne
deop aturrow
About three inches
is the most suititable depth to plow.
Plant
life
lioes
 of the seaston pas ast dees in the spring,
elen though th e
temperaturer the same, or way be
er, and all all other
onditions all as favorable. Thi as well as many so the carlier they grow, the better, as will germinate falls
off rapidly as the Season advances,and
the midedle of September is about the
latest date that
culticut cultivation is of
mulh use to sermi nate weol seeds.
not the only allan
on. By. bringing the ion. Br bringing the tage of after-harvest cultivation. 1y hringing the
Suriace soil to a fine tilt, the moisture already
in the soil is largely retained, and what falls be
fore falloplowing commences is not nearly so

 neessarily exert thensel ees.
Let all fermers who can at all get their cann
 pleasant and easier task for both man and hest.

## Favors Good Honest Plowing.

Judging by results these last few years, mois-
ture is more necessary to produce good crops fertility. The question of redace good crops than
metaing the soil moisture is very appropriate at the present time.
It has been said by there is enough moisture in the soil throush that ing snow and rain during the fall and winter to produce and mature good crops, without any rainmay, we do know that much can be done by better preparation of the soil to produce a goo
crop, irrespective of the season. One "point brought out, by your article en
titled "Dry-weather Crops," is that a good deal of mischief has been done in recent years by shalonly too true. I am satisfied that the farmer
who plows his land shallow and works it shallow is assisting the water to evaporate from the soil. vast difference between the good old honest system of cultivation and the so-called surface culti-
vation. It also seems to get rid of this shallow plowing idea, the better it more important, when we consider that is all the one. it is a question with me whether spring plowing will not conserve more moisture and aproduce
a better crop of spring grain than the system so much in use of simply cultivating and harrowing the writer's farm this season (a very dry one) plowing has given much the best results. A field This was fed off in the fall, and about two acres balance was plost put an end to the job. The plowed ground came up better and the springall through the season. It was about six inches
longer, and much better headed than the other. last year, the corn ground was plowed last grown. The root ground in the usual manner this spring. harrowed ground was plowed this spring, and well
rolled. The results in this case were even more pronounced than in the other.
Perhaps some of your readers have had similar experience in this respect. We are told that on to a depth of sixteen inches is quite frequent. How much more will be the ability to hold water WM. ELLIOTT.
four inches? that than where it has a depth of
WM.

## White Grulb Fungus.

## I have read with much interest, both last sumwhite grub, which does so much damage in many places. Two or three years ago the June beetles were very numerous, and it was feared much

 age would follow, but, strange to say, this sum-ager it is seldom we find a white grub. There is
a fact not generally known that a parusit. time, the grubs are tectroyed. This paras to, if
it may be so termed, is forind attached to the purple color, and looks like the sprout of a
danlia bulb, only much smaller. These curions plants grow till the grub is consumed, and only
the shrivelled skin remains. These plants may attain two inches in height, and even appear above
the surface of the ground. It soon dies for want at will, white wrubs possible to start this remedy ago, after his experience with the Hon. Sydney
Fisher's lawn, at Kinowlon, which was entirely tims of the parasite, and were seen no more.
I ain inclined to
ank that the same thinc hap pened here last sear. I have never found but one
THE FARMER'S ADVOCATE
$\qquad$ amount of followed,

## Dry-weather Crops

Western Canada, question both in Ontario an without sufficient rainfall. and neat, well-kept farms. sight to see good crops a district would be a feast for the eyes, but this good crops to found. Some farmers do not have perhaps, the main reason why the crops on one poor. There is certainly no such thing sus "magic farming," but there is such a thing as When the farming," and it embraces a good deal certain methods, and finds the results he follows in larger vields, he is encourac results gratifying scientific work, and thus farming gives him pleas

Now, coming to the question of cultivating the Soil in very dry weather to help a crop of corn
or beans, we must accept what scientists put it into practice, and watch the results. Freallows the means, the organic remains of former crops and manuring ar oxidized, the nitrogen being con-
We can see the result of cultivating in dry only this, but it is a splendid of the crop. Not following crop. Plow down a clover sor for beans. Cultivate and kee? clean, and you have field, disked about three or four inches deep the or barley than if the field was plowed. $\frac{1}{\text { I }}$ have point to three fields of oats prepared as mentioned above, and they are the best-looking oats in the
district. The earliest sowed field is the best of It is very plain that a man cannot farm one year at a time. He must always work for the
future, and make one crop prepare the soil for the next. It is good practice to seed down all needed for hay makes good fresh pasture late in the summer, and enriches the soil when plowed
under in the fall. It is a very economical mat
 spring grains and wheat, I did not mention the get good crops, any soil should understood that, to Generally speaking, it is impossible to get a soil Would supplied with humus. adivise every farmer to get a
copy of "Warrington's Chemistry copy of "Warrington's Chemistry of the Farm."
It is simple and to the point. I shall be glad to read others' opinions on this subiect in your valu
able paper.

## Concerning Farmers' Wages.

$\qquad$
$\qquad$ he in vested his money by making first payment on me father worked these worth farms and another About $\$ 100$ a vear was spent in hirou four years ing these four years the farm has heen paid for-
while similar pasments were made on the home drains and buildines. so that its value by nearly doubleft Wy father has kept a family of six Work course this took hary work, though we


Careful Plowing and Fuppowing

## crops is quite a problem,

cannot be kept going and no the cultivato oen done. In most cases such land has either good crop and wes or late in season for nsues, the crop is sure to suffer a great dea most sure. If too late seeded, the crop is al rank enough surer hewise, as the growth is no out too deep and the crop suface from drying sown the other hand, it was too wet when in very had condition to stand the it leaves it , and also in had condition for next cropat not seeded to clover, it is sure to plow ery ay ay and is hard to work.- It is needless to generally understood that or corn land, as it is clltivator is the only means of retaining cops, the ing, and the early cidedly the best, and counted on to sive the best equal, can here no underdraining is on the farm, these fain. plowing got dry enough considerably earlier by and good ditches to water furrows well cleanei cuti water furrows will fill in very easily wh ing the, field in spring, and will not bother through the winter will have acted a good prart plenty of them: it is early spring. So put in with one fied at early start in the sprinu try the to get an plowing after harvest, and warkin old plan of will weeds, etc. No better plan is known twitch-grass. 'Then, late in the fall back-furrow, as for roots, by making a drill with field up, same The water gets off this land very early in sprow and mellow, and it readily works furrow very fine level surface. This field can be sown early, and
will stand a ing it has had plenty of cross furrows through thcros to carry off the surplus water, and was the work errowed again after seeding. The extra a fairly clean field. It helps do and also give summer fallow, which is too expensive, necessitat
ing two years for one crop. Life is too shor for that.
The roller is a very useful implement, but
should be used before sowing. If used after ing, the harrows should follow it, so as not sow with well smooth surface. Good honest plowing, with plenty of water-furrows over 18 feet. wide, reat advantages, as the surplus water has to are o make rapidly in order to get the land in sliape in retaining moisture later most essential part and the the grain germinates more quickly, ,lus water has to be gotten off quickly in order right when sown, or the crop will suffer if the right when sown, or the crop will suffer if the
season is dry.
Brant Co., Ont.
JOS. DOUGLAS.

Fall Plowing and a Fine Seed Bed.
I cheerfully comply with the editor's request to
send in a note of observation in relation to methods of tillage and crops in the present seasun cality during May and June. At this in our lo18th), the oat field on which was grown a big for straw and grain. All excepting a deep last fall side was plowed about six inches part have not done nearly so well as the rest. though plowed about the same denth and all
equally well worked otherwis. at seerling time. It was all seeded to clover, and what h's arrested
my attention particularly is the fact that the
catch on the catch on the strip plowed in the sprine has had'a
hard strugele, and may yot the a failure, while on the other portion of the field it has is made


GARDEN ORCHARD.
Citpus Industry in California.-IV. GENERAL cultural and packing-house METHODS.

I have said in a previous article I thought the growers points on the teach the deciduous fruit employed in their groves; also in packing-hous management. This is because they have brought sible under present-day knowe of efficiency pos backward growers here as elsewhere, but such are the exception rather than the rule. One eminent horticultural writer has recently said that there been more highly developed, entered more widel into commerce, and contributed to the welfare of Sicily. He number of people than in Italy and fornia citrus districts when he excepted Caliparts of the world from a generab statement few in general from 5 to 10 acres for smaller holders to 25 to 50 acres for larger holders. Some comothers a thousand or so acres; and one company probably the largest in California, owns or oper
ates about 4,000 acres. This latter dous undertaking, and requires considerable skill in management. It was with this company that packing-houses five months working in their whole.
Suitable land for orange culture can be secured pending on several factors per acre, the range defrosts and winds, availability of as freedom from tion, inherent qualities of the soil and sub-soil packing-houses and transportation facilities, congenial locality for a home, and so on. When from $\$ 500$ to $\$ 2,000$ per acre, depending also many factors. Lemon groves are not on on market at present, except at exorbitant prices;
this owing to the exceptional prices ruling during the last few years for lemons. Trees are planted 20 to 25 ft. apart. They should begin to crop about the fourth year, give good returns in six
years, and come into full bearing in about ten years, and come into full bearing in about ten
years. It is difficult to say what the net re-
turns per acre turns per acre usually are or shoy what the net re-
if a person pays $\$ 250$ Roughly, if a person pays $\$ 250$ per acre for the bare land,
his expenses per acre for developing will increase his expenses per acre for developing will increase
this amount to about $\$ 700$ at the end of six years, and to $\$ 1,000$ or more at the end of six
years, when the years, when the grove is supposed to be in full
bearing. During this bearing. During this past season certain very excellent groves have yielded from 700 to 760
picking boxes per acre.
Counting 70 trees acre, this would average 10 bounting 70 trees per
arer tree. Most groves, I think, will come away under this averreturns from a well-kept orange grove should net from $\$ 100$ to $\$ 500$ per acre, accoraing to most reports. Actually they do not. The President
of the California Fruit-growers' . Tring of the Califirnia Fruit-growers' Exchange states
that one-third of the orange groves are run at a loss, one-third of break orange groves are run. at a
from a fair one-third produce from a fair to a good profit. It is obvious, then,
that the orange industry is not such a luer that the orange industry is not such a lucrative
business as it was a few years ago whe was considered a very fair profit per acre. $\$ 2$, The lemon is the aristocrat at present and acre. The proving
so profitable that a prospective buyer may scan so profitable that a prospective buyer may scan
the California daily papers in vain for lemon the California daily papers in vain for lemon
groves offered for sale, whilst he loses himself in
a maze of veritable fortunes awaiting hic a maze of veritable fortunes awaiting his grasp
in orange groves.
In the groves practical completeness. in all
operations is the first
ning with the laving out of a new grove and fo
lowing through the operations of cultivation pruning, fertilizing, irrigation, fumigation and vetch, Canada peas and burr clover, are conter picking, everything is done with an effort to get means of improving the conditioring and as a that this can be best attained by employing groves for the completeness of operations in the capable, experienced and energetic foremen. For The same factor of thorouchness is an labor is of many nationalities. There is the in the packing-houses, but one probably of stipl watch him closely, for even he so long as you greater importance here is the great care exercised -there is the lazy Mexican, always requiring in handing the fruit. Lemons are handled "like urging on; there is the garrulous Italian, much egome oil-cells in the least bruise is likely to breal given to singing famous operas 'as he works; the ing for the entrance of "blue-mold" spores. This American, Englishman, Swede, Canadian, who all "bers. mold" decay is the bane of all lemon shipimprove under a good "boss." With such mixed good humor and a workman wishes to to be in material, to get best results, a capable foreman "cuss" a little, let him drop a box of lemons: him owner often acts as his own foreman and his bix ter still, accidentally turn over a truckload of profits will depend a great deal on his ability to ject for print What might be said is not a fit submanage these different classes of men. Complete- in any way must wear thin who handle the fruit ness in some operations is necessary for success are supplied by the packing-house. This is thich new grove must be well laid out and levelled so prevent finger-nail injury. Anyone who has tried


An Irrigation Canal later. Conton may be successfully performed one day in a packing workmen last but rough waten run too fast in the furrows, for the is be exercised in picking, and a foreman
 omy are especially important in this case as tree by means of specially-constructed clippers the ure. In other expensive factor in citrus cul- it will not injure other froiten the stem so that lutely necessary or the money expended is entirely in contact, and then it is placed in a stout canvas
wasted. This is sack, which is hunr sects with which citrus trees becomer scale in- neck and suspended in front or at the shoulder and rested. Gangs of four men each are kept busy a ever the picker finds more convenient. When fixh big part of the year fumigating scale-infested in which the fruit is drawn field or "lug" boxes with a specially-constructed by covering the tree Every operation is watched by foremen the houses. hydrocyanic acid gas is generated. An underdose is no unnecessary roughness is used in handling that rot effective; an overdose will burn the trees; con- in the cars readye the is picked until it is loaded and intelligent fumigation supervisor must be active Another important shipment. Wacted and thoroughly do see that the work is carefully to establish the reputation of this has done much and of cultivation for the conservation of moist- shippins boxes thatdization oivsizes, grades and are and liberation of plant food are thoroughly whith oranges than with more perfectly developed
understood. G. Harold Powell, late of the I understood. G. Harold Powell, late of the Uhy S, war shanges than with lemons, because their regu-
Department of fertilizers of various kinds are probabbly used more extensively in Southern California than in any
other orchard industry in tho citrus orchard industry in the country, except in citrus fruit-growing in Florida.". The same writer
11
says that "in a general way tillage is frequent and



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 getting in grade and size. He culd bwat he orange how many orangese the coubd be to the
car, and his only chance of losinv wuld be in the
 other
Even a
a greonhorn in in the the business of

 In the big cities of the East. How much easier it is for the auction company to sell this fruit
when they know exactly what they have sot
 this standardization of pack as carried on by the and not neecessarily mat mor of business oxpediency may do the packinne, and a pip-tailed Chinaman him to pack wrongly if he wanted to co consifuequen for ly he packs accorring to ralte, tuas as ansequent
his pig-tail, and in neither case jo the he braids moral honesty int roduced. The deociduoustion of growers of Canada recognized this point when they
standardized their fruit packages. The deciduou fruit-growers of California are a aiming still higher,
and last year began a movement to stand their packs for cherries, peaches, pears, plums grapes, etc
tion, Care exercised fors-Thoroughness in opera the Standardization of hackages the fruit, and pressed me most strongly in the groves and pack
ing-houses. ing-houses. I might also have mentioned economy in al
operations; but this is a variable factor, as very many of the grove owners came to the country as wealthy men, mainly to obtain a congenial
home or a climate to build up their heaith and
lengthen their span of years lengthen their span of years. With companies,
however, who operate solely with a view to making a profit for their stockholders, economy is a matter of business expeciency, and they, practice
it with all the energy of a " "tight-wad," Frem general manager down to an "tight-wad." From slogan is: economize; and very often their posi-
tion depends on their ability to do so. Red ink eturns do not pay dividends, and every manager may sell land at a good price, it requires con siderable intelligence and hard work to show a
fair profit at the end of a season from the acworking of the land. able and energetic foremen. In a packing-hous where a large number of hands are employed it time. Every minute lost with sixty employen means one hour. The foreman must be on the alert, so that if any machinery breaks he can at pairs are effected at some other work until repairs are effected. Similarly the foreman must
continually study where he can improve his organization or machinery so as to turn out the portant to study the expense. It is very imvarious kinds of work; for instance, Chinamen Careful; the Japs are best used at hard, steady
work, or work that requires quick the Italians are used to best advantage ac frup pickers; the American makes the best teamste the Tennessee boy is hard to beat as a " mule
skinner" Every bit of expense is charged in its proper place, so that the finger can be placed at once
on the part that has to be improved. From the
time an orange or lemon enters the packing-house until it orange into the car for the packing-house
pense of every is carefully computed. If any part seems too e
pensive the whole staff of the packing house se itself to study improvements that might mak that part cheaper. That means that every man
has to warrant his position, every operation it necessity, and every bit of machinery its full It is the same on the ranches-in irrigation in tillage, in pruning, and in picking. The cost
of land is really the cost of water, hence the water must be carefully distributed over the land and then carefully conserved. Tillage is carried labor-saving device is adopted. For carrying the fruit from orchard to packing-house motor-truck are coming into use. The writer has known on truck to haul in as much as four teams, the dis
tance to haul being one mile to half. In pruning, the trees are kept low down
as it has been found amongst other advantage that low-pruned trees are more easily and cheap y picked than high-pruned trees. Every expense But even economy in itself must be limited so
that it does not run upon false premises that it does not run upon false "premises. For
instance, how short-sighted it would be for a instance, how short-sighted it would be for a ing 60 boxes of oranges when 40 is a good aver-
age, consistent with careful handling. He might

1HE FARMER'S ADVOCATE
save a few cents on the picking of each box, but
lose many more later on when the fruit reaches
its market, owing tor its market, owing to increased the druit reaches
rough handling in ticking. by economy may be carried ingo all branches of the
industry, and it takes a good manager to know
the dividing line

The Farm Stpawberpy Patch hat it is more profitable to start neir planta
tions each spring than to contin second year. But this may not alwe old ones ticable, nor indeed necessary in the farm garden If the rows have been kept clean and the plants
are numerous and healthy, like those shown in our illustration, they may be left for a second crod
$\qquad$


## Two Strawberry Rows

ing a change. To be on the safe side, however readiness for to have a strip of rich ground in readiness for new plants early the second season. beds so as to insure a good second crop. To often, weeds and grass have been allowed the right
of way or way in the old plantation, or the plants themseason, if the weeds cannot be rooted out, then the plan advised by W.T. Macoun, Horticulturist Foreman in Horticulture at the New York Experiment Station, and other specialists, like the Kelwith a scythe or mowing machine, and when close ficiently dry, loosen up and burn over, which will


Robt. Thompson, A. Onslow and Mr. Bartiman,
the some of the fruit that came West, reaching Winnipeg July 11. Cherries stre fresh from the orchard. destroy insects and other pests, making a fairly west to get Ontario fruit in good condition, and to be blowing in the direction of the rows, so that have been a means of opening up a Western marthe burning will be done quickly. Care must be such good condition as these did for a journey and the soil powdery, the burning may very dry lasting seven days, which was two and one-haif deeply, injuring or possibly destroying the crown possibility of experiencing a loss in shipping lituit
> is 4.8 per cent.to as high as 53.6 per cent., and in-
juries made by individial pickers were as as high as
$8 \overline{5}$ 85 per cent. $\begin{gathered}\text { Injuries } \\ \text { from clipper cuts were }\end{gathered}$ most in evidence, but gravel punctare nail and es, etc. Natural defecta were very prevalent, but sponsible for most of the
injury. Dry brushing and injury. fry mash an dling increased the amount of decay. Care methods, and organiza the solution of the diffculty. $\qquad$
accompanying cut illustrating fruit which was shipped from the St Catharines district, and arrived in Winnipeg July which appeared in ". The which appeared in " The July 20th, shows clearly the row, of well-rotted barnyard directly over nure might be benst of black muck with the mawith a rake or he crowns will be coated with a fine cover that earth and manure. In a short time a newering or Thin outs will shoot up through the dressing will throw out weaker ones, leaving the best, which If this work is done sufficiently entirely new patch. son, strong rows will have developed in the seaend of autumn, and, as a protection in winter, strawy manure. mulched with short straw or It may be thought that this is a good deal of trouble, but it is not so serious as it looks, and no small fruit repays generous treatment and care better than the strawberry. In order to see what
could be done with a small patch, one of the could be done with a small patch, one of the
editors of " The Farmer's Advocate", set out two rows about 150 feet long in the spring of 1910 ; varieties, Senator Dunlop, Splendid, and Williams.
In width, the strip was less than eight feet. The In width, the strip was less than eight feet. The
land is drained, and was fairly well manured and land is drained, and was fairly well manured and
worked, but there was nothing unusual in its preparation and care. Owing to the dry, hot May and June, the fruitage was much lighter than it would have been with more frequent showers,
and yet the little strip yielded some 230 boxes, or a return at the rate of above $\$ 700$ per acre. Specialists have not infrequently reported returns as high as $\$ 1,000$ per acre from strawberries, and, while at the same time realizing a maximum of With regard to the three varieties tried, the Senator Dunlop made the best showing. It is a does not seem quite as prolific, as the splendid, but the berries are larger and very much finer, and
they 'ripen a rich red to the tip, which cannot said of the Williams, though the latter has a bood reputation as a general-purpose fruit. In the enround, the Dunlop rows are those in the foreer is that particularly good feature of the latstems, which are therefore clean and entirely free rom sand.
A bulletin has just been issued by the United Relation of Handling to Decay in California Navel Orances, Season of 1910-11." The blue-mold decay has been worse this year than formerly. Inshowed sufficiently high percentages of injuries to account for the greater part, if not all, of the loss honses examinerl ranged fro injury in the diferent
possibility of experiencing a loss in shipping fruit

leave the litter as a muich, but most experts ad rows with a plow, cultivator or spade, if the old twe very small, leaving a plant-strip from eirht to with a hoe wide. This work is usually finished Then apply a good heavy dressin.

## Fruit Reports

$\qquad$ of Agriculture, Ottawa, the prosivect epartment has diminished slightua, during the the month, except
in British Columpia proved. The heat and drouth have been most folt in Ontario, where the small-fruit crop ha
been seriously affected. Rain has com and the outlook is somewhat brighter.
Brunswick Brunswicic, like British Columbia, has enjoyed
favorable conditions favorable conditions. The apple crop has stood aplles were beginning to drop heavily in some districts, and sun-scald is roported in the Lake Erie
and and Lake Huron counties. Nova Scotia expect acarco. Erop. Fungous diseases are remarkably Baed to be ten dariet ies in Eastern Ontario prom
isend tall variens earlier than usual. The early and fall varieties give promise of a medium to full crop, but
most districts
Pears are light in all sections, with the exeep tion of the Montreal district.
Plumis promise
good in Nuva Scotia and Prin Ontario, and are but light in British Columbia. The fruit Island gun to drop badly in Ontario, but the rain will help matters greatly
to general cultivation. Crawfords well, owing light, and " little peach " is in evidence rather Cherries, as well as the smaller fruits, including stranberries, raspberries and gooseberries, have these fruits has been good.
cent. crop of winter apples have a 55 to 60 per cent. crop of winter apples, 60 per cent. of a full
pear crop, and 60 to 70 per cent pear, crop, and 60 to 70 per cent. of a full peach
crop The report issued by P. W. Hodgetts, Secretary gives much the same information. Thy 11th, has affected the small fruits almost all over On particularly newcastle is very bad in some districts, cates that more orchards have the report indihis year than ever before, and that these are the orchards which are carrying the fruit, the uncared tricts. Some districts poor outlook in most dis commencing to drop, but the rains which have
since fallon will likely put

## Illegal Size of Baskets

 growers, and deserves careful considerest Division, Ottawa, that some of the of the Frui facturers are turning out baskets under the they claim that they eleven or six quarts, and they claim that they are importuned to do so bycertain growers who think they can sell small baskets of fruit for as much money as the full-sized basket, even though it may, in th quarts, as the case may be bed the quarts or five in the law which fixed the dimensions and capacity of fruit baskets, was to provide a standard
package, so that the honest grower should not he placed at a disadvantage by thoser less scrupulous receive fair treatment by all. The fact should basket may be marked ten quarts does not convey rule, aware of the legal standard size is not, as a The fruit inspectors will watch this matter
carefully, and prosecutions will surely follow undersized baskets are not marked according to only fair that the public should be thoroughly educated in this matter, so that they may know nterest of fruit-growing that all baskets should
ne of the same sizo

## POULTRY.

water. A good time to dispose of them is soon
after harvest, because the longer they are kept,

A New Point in Artificial Inculba tion.
Intellinence bulletin of the Bureau of Agricultural Intellivence and of Plant Diseases, issued by the in March. 1911, the following apears Rome Sweers, at Huls, near Crefeld, Germany, experimenting on artincial incubation, has been puzzled eggs, as compared with those of machine-hatched his experience has been that generally a higher, percentare of chickens is obtained in an incubator When used for the first time, and that succeeding longed :nvestigations, he has come to the proclusion that this is due to changes in the wood of which the machine is made, which, by loss of moisture, becomes absorbent. Therefore, during
the embryonic stage, and after hatching, the wood attracts the humidity, thus causing enfeeblement s indicated by death before and after hatching To counteract this influence, he has covered the bottom, etc., and states that doing so hid

gallon on 18 farms, fromsidered. It was 6 d . to 7 d . on 11 farms
7 d . to 8 d . on 17 farms, farms the highest 10.54 d . cost per gallon was 3.83 d . Dunstan points out that high feeding is not noce
 their milking period are brought in, forced during ing has a double object, which is not the feedordinary milk-producer. In such cases the high ceding may be justified, but in the case of an in-the-slot machine, which is not a mere pennyworths of food you put in, the the more penny mik you take out, it is necessary to find out he at that. When, however per day and ner ence is reached that, with a high milk the infer with of production of a gallon of milk is less than was the farms, with 1,924 cows thare was milk, on 59 the way from 4.4 d , to 9.2 d . It is shown tha more by of food per gallon of milk is influenced cow than by the decrease in milk yield to the and examination of the figures from 60 farms quantity averag of hay was used on 22 farms and 519
cows, the daily of the cows' was 17.4 d ., and the cost of production
of a gallon of milk 30 farms $\quad \begin{array}{r}\text { f } \\ 30 \text { ( } 1,324\end{array}$ cows), where ${ }^{(1,324}$ a verage quantity of
hay was 7.8 pounds, these figures were spectively, a reduction of 25 per cent-
and 22.3 respectively. It is
probable that dairy farmer would
get equally satisf tory milk yields, at
a reduct a reduction of cost,
if less long hay
were fed

## THE DAIRY

## Composition of Cow's Milk

partment of Agriculture, Arthur G. Ruston, I actions of the latest volume of "Trans ciety," a paper on the variation Agricultural So tion of cow's milk with the advance of composi complete two years' investigations, covering ${ }^{\circ}$ out very clearly the 26 cows. The tests brought differ greatly with different cows variations may generalizations upon the subject cannot precise is richest in general, it was found that the mill: the earliest and latest , fat and albuminoids in poorest about the second or third month, and advance of lactation to decrease steadily with the advance of lactation after the first month or so,

but the proportion of ash remains approximately
constant

Cost of Milk Production.

## at Wye, Kent Co., Fingland, has given out College tults of an

 in milk production. He notest, as winter feedingtors in the chief fac lars in the cost the following : Food, litter,
labor in feeding, attendance and milking, illness,
calving riskis terest on capital, expenses (carriage, etc.) on in sale
of milk; while the returns of calf, \&nh alte the returns are sale, of milk, value
attention to the of mure. Mr. Dunstan calls attention to the necessity for Meeping individual mik records, and also of making a close studya a cow monfitably to maintain her maximumable
 cows wre in foon per day during the period the 1s. an to is. on on tworntsone fatens farms;


.JULY 27, 1911
THE FARMER'S ADVOCATE
performances of the cows with which they have to
deal.

## APIARY

Shopt Ontario Honey Crop Beekeepers' Association report that the extreme
drouth this shor routh has shortened up the white-honey extreme
to arvest from all counties of the Province show a deceived
falling off in the dlesex and a thew apiaries in the exception of Mid counties. The average yield per contrany is wester duction of at in 1910, which would mean crop. Entire failures of the crop are the total reported this season, and the average is lower
than for many years past thonly se sent out to cover buck wheat honey. Taking
nto consideration the small-fruit crops, the high prices of churr of the fair crop of apples, and the reduction in the United States honey both in Canada and the the following, prices for the year : No. 1 light extracted (wholesale), 11 to 12 cents por light,
No. 1 light, extracted (reto No. 1 light, extracted (retail), 13 to 15 cents per


## THE FARM BULLETIN

A Sound and Prosperous Empire.
representatives of the in Lovendon, England, to
special special message was given theerm from thinions,
Premier Asquith said they would corry abiding impression that the heart of the Fy the waen in a dying state. "Wherever you have been you have seen abounding evidence of its vil
tality and progress in all other walks of our common lifo , ycustrial and to your various dominions and colouies of the
King feeling that there is an identity in the iden and aims between different parts of the Empire constitutes the abiding saferenuard parties which Unity, local patriotism and Imperial loyalty are
said to be the cher said to be the characteristic feature of the con
ditions of our Empire. Some peonle thin an accident, some think it is a miracle think it it enough for you and me, as good, true and loyal
subjects one must fele, the best solution which the politica
genius of mankind Hon. A. J. Balfour, Leader of the opposition,
said:
I associate myself absoluty Premier in what he has said in an optimistic vein igor and vitality oftimism, with regard to the
We are not a decadent Eimpret of the Empire. Wuntry are not a decadent part of the Empire. 11 the weight and all the sonatly ready to bear ing to our position, and we know that there is eager, growing sentiment in every part of the
Emire, that we should not bear that burden

## Rupal Mail Delivery

## Eatitor "The Farmer's Advocate" ": Since the establishment of rural-mail delivery

 I have noticed very little either of approvel ory,criticism of the system, yet it is a convenience
lonctish long sought and only hall-expected by farmers.
Although we obtained only a it is undoubtedly of great benefit, and more yet erally prized by its beneficiaries, we believe, than the rural telephone. Among the incidental advantages not generally mentioned are the carryknowing who owns a particularly well-kent place as we pass along the route. But we have also
found that it in found that it is not always safe to affirm that so and so lives at a certain place because we see his
name on the post box at the gate, for not quently the farm changes managers without the box changing names. I often wondered why the
boxes were not numbered, instead of being named boxes were not numbered, instead of being named,
and concluded at last that the Government thought it wise to inform the traveller who whment Who, but to make the information more correct,
it should require change of names on the boxes it should require change of names on the boxes.
I notice, however, that mail matter frequently Yoes wrong where there are two with names nearly alike, e. g., the same surname, but different christene names. I have never noticed two ex-
actly alike, and presume that would be avoided in
cole Some way. In.cases where these mistakes occur ooxes, or else devise some method of improving the observation facultites of the couriers. Where
the mail has to be conveved trom a "corner." by
winter, generally remain thus till spring. Strange
that offences of this in than when the mail was brought from the oflice
by the same ment There seems to a ment to extend routes from the town of not more than twenty miles, making a half-day trip for the with the rural-mail mann. This will do away stance of centralization, and there would seem inbe no need of the rural post office. In fact, there city, except farmincupations outside of a town or


## Weeds.

Editor ". The Farmer's Advocate ":
This subject should attract every farmer at this season. "Eternal vigilance of weeds and when to " so, also, is a knowledge and early nence as the time to keep the hoe too much promiing. to This system I do not decry, but I wish
ness of uttention to the greater ness of late summer and
to check the deater effective
cultivation roots for the next season's seed and succulent past, to destroy the weeds growing in In the potatoes and root crops, the continuous stirring necessary to save the crop from being smothered and, as soon as the growing crop was sumficiently
addanced to hold its own, there was practically total neglect of weeds, which were left to develo season. Every farmer and gardener should know season. Every farmer and gardener should know
that every weed kept from seeding lessens the trouble for next season.

Overcropping the Soil
$\qquad$ cropping the land. They I tell them fearlessly that they they are not over Shipping away the essential they are. They are the fibre ing it. They are taking what they are blowing which the earth, and the result is the in addition, there is nessed every summer. Then, wheat. yield of whese causes will do much to lessen the crop will be less than the this province, and the an agricultural expression of opinion expect. Shaw ancultural authority than opinion from no less ing agrico has spent practically all his life tomas ditions special agricultural campaign has carried on a railway lines in the North-western Jas. J. Hill's spent a few days with the agricultural train a considerable opinion as to the status of farming in express an one. Professor Shaw's warning is not a new through the years this note has been sounded cate." In fact, all students of Farmer's Advocann to think, hold this opinion. Evan rich who and humus continual grain cropping. Plant food un short are needed, and these sooner or later 000,000 bushel crop this year in the Prairia 200, inces, but this return cannot be expected from the is persist a few years hence if all-grain growing is persisted in.-[The Farmer's Advocate and
Home Journal.

Su
Seeding of Clover and Timothy. Just now, when a great many Canadian farmseedings of clover and grass, which have been new which have been bad-
ly scorched by


A Well-kept Apiary blistering-hot, dry
weather of July, the following suggespress notice by the United States De-
partment of partment of Agri-
culture, are exceedingly timely. Whether the advice given will apply
equally to Canadian latitudes, is a ques tion about which we do not feel
fectly
certain. fectly certain. We
should suppose that to be reasonably safe against winter-
killing, the clover killing, the clove
should be so w should be s own
earlier than th
middle of middle of August onsuing drouth chances of a vigor ous growth. The
problem is a vexed
one, one, but the plan
suggested wo uld
seem to harrow, and if the soil ifllowed by the common worthy of a trial on a small scale. We print matured will readily sprout, and the biennials have below the article as received, and commend it to perennials be weakened in growth rially lessen the attention at this time will mate- in wheat, rye and other grain sown this spring Annuals may be exterminated in by a proper system of fall culture, as some say that.charlock, ragweed and wild oats out sprouting. many years in the ground, with but my experience on clay soil has to dispute, where wild oats or mustard have been present in ing thein, I have found little trouble in destroyvitality in the seeds referred is that this great In farms, the owners have of many badly-infested years, but, upon critical their vitality for twenty infested sed was sown every year found that the the hay fed and bedded the cattle, and the unafter yeaf. Besides, very winall the fields year weeds will mature seeds that will plants of these less a close observation is made, they will be passed by unnoticed. The unsightly burdock, the common dock, and tion is only directed to them and they if attention is only directed to them and they are kept
in wheat, rye and other grain has been parched up and killed, either wholly or in part, on thouern States. This is a serious situation, and calls planted, it means no clover hay next is not rethe planting of some substitute crop for hay next
spring, at consider spring, at considerably increased expense, will
probably be necessary probably be necessary. Not only that, but the green-manuring crop in the rotation, loss of the arrangement of the whole farm plan of crop rota Every piece of new seeding should met at once. Every piece of new seeding should be examined, plant it at once. One of the best ways known field as soon as of clover is to disk the stubble to run about three inches deep, and willowing tisk stubble into the soil. The disking and crose disking should be sufficient to clean it of weeds and grass and put the top three inches of soil in
fine tilth. Keep the sround cultivated until fine tilth. Keep the ground cultivated until the
first soaking rain, then sow about ten pounds of
clover seod men clover seed mixed then sow about ten pounds of
with six to eight pounds timothy per acre, and harrow the seed in. A
down the grain tubes from the grass-seed box, and sowing clover and grass 1 to $1 \frac{1}{\frac{1}{2}}$ inches deep. By without a nurse-crop, it makes much more rapid and vigorous growth than when sown with grain By disking the land, also, a much better seed-bed is made than could be obtained by plowing, since, up lumpy âhd lies up loose, and is very difficult to work down into a compact seed-bed, such as is essential for the best results with clover and grass seed. In addition, the grain stubble worked into
the top soil by disking seems to form a top mulch especially beneficial to clover. This method of seeding clover is becoming quite general in some of the middle Eastern States, where farmers spring seeding with grain, because of frequent failure to catch, and seeding alone after the grain is cut, instead. By this method, clover and grass
seed may be sown in the Central and Western seed may be sown in the Central and Western
States as late as September 15th, and still make a good stand that will not winter-kill, but in the extreme Northern States the seeding should not be made later than August 15th. To summarize,
grass seedings in spring grain have been burne out on thousands of farms. Replant now by disking the stubble about three inches deep an sowing clover and grass seed alone, withou

## East Middlesex Thpeshing

 Threshing was in progress, mostly from the North Dorchester, fall wheat yields ran, in some cases, as high as 30 bushels per acre, and in one instance a sowing of No. 21 O. A. C. barley gave a return of nearly 50 bushels per acre. The high minster farm, 45 bushels per acre. This is exceptional, but shell handled.$$
\text { The nintuir } \longrightarrow
$$

The District Representatives of the Ontari
Department of Agriculture in various Province are to make a tour of inspection in Northern Ontario the first week of August. The party will consist of nineteen Representatives,
gether with Mr. Putnam, Supt. of farmers' stitutes, and W. R. Reek, Secretary to the Deputy Minister. The party will leave Toronto July 31st, the first stop being made at New Liskeard on the $T$. \& $N$. O . Ry Rurounding country in the various districts wepresentative barmers Government farm at Monteith will be inspected, and information will be gathered irom all a a ail
able sources. The object of the tour is to ac
quaint the Representatives quaint the Representatives with the wonderful
possibilities of Northern Ontario, so that they

Canadian Crop Outlook.
> condition of the field crops of Canada for The
month ending June 30 th, as compiled in the sus and Statistics Otfice from the reports Censatisfactory, although on ande is on the whole quite iall, it is not uniform for all the Provinces. For
the most part, in Ontario excellent made, but there are districts in which the graing and hay have been badly affected for want of rains in May and June. For the whole of Canada, the Condition of winter wheat is only 75.26 per cent., ten per cent. less than last year, two per cent less than in 1909, and nearly fourteen per cent less than three years ago. In Ontario it is only 73 per cent. of a full crop, as compared with
94.29 last year, 78.60 in 1909, and 88 in 1908 In Alberta, the only other Province in which winter wheat is largely grown, the condition this year is 83.22 per cent., compared with 63.62 in wheat in all the Provinces this year is given the high average condition of 94.78 at the end of June, which is better than in 1910 by 12.62 per
cent., better than in 1909 by eight cent., better than in 1909 by eight per cent., and
better than in 1908 by nearly 15 per cent. tario and British Columbia are the only Prov inces in which the conditions are under 90, and in Saskatchewan and Manitoba it is close to 100 . The average for barley is 93 , which is six to
en per cent. better than in the preceding three years. inces, which is higher than any year since 1908, and is 95 or higher in Prince Edward Island, New In Ontario it is close to 90 Northwest Provinces. ish Columbia.
Rye, peas and mixed grains are given a con-
dition of about 90 for the Dominion and are
higher than any year beginning with 1908. Hay
and and clover and alfalfa are both below last year's condition, and pasture is a point higher. In the is over 100 . The feature of late cereals is the increase of
area in flax, which is nearly 300,000 acres mof area in flax, which is nearly 300,000 acres more
than last year. The largest increase of flax is in Saskatchewan, where this crop in recent years has The into great favor.
Tumber of live stock do not show much change from last year. All classes are within less fhan two points of 100 , and an excellent uni-
formity is shown throughout all the Province w.
W. V. Longley, of the Commission of Conser- parts of Waterloo County, reports that there is

## United States Crops.

$\qquad$ Bureau of Statistics, Washington, D. C. reporis that the month of June was decidedly unfavor able for growing crops in most parts of the United tates. The aggregate condition of all crops on uly 1 st was 10.7 per cent. below the average
ondition, whereas on June 1st conditions only 2.8 per cent. under average. Taking into account both acreage and condition, indication are that the wheat crop will be 1.4 per cent larger than the average production of, the past per years, corn 4.9 per cent. larger, oats 12.3 10.8 per cess, barley 11.6 per cent. less, potatoes flax 10.5 per cess, tobacco 22.7 per cent. less, than the average more, rice 5.8 per cent. more,

## Congress Endorses Recippocity

 procity passed the United States Senate at Wash ington on saturday, July 22 nd, by a vote of 53 epresen the same form as it left the House of Its final the great passage is conceded to be largely due to cknowled Democrats, the support it received from the dicates ions between increase of mutually beneficial relaofficial signature will complete the canada. His that side, but, before taking effect, it must on .McKenny,
ears Representatative of the Ontario been for four Agriculture at Essex, Ont., has been appointed Weed Inspector for Alberta, to succeed C. E. Fairs and Institutes in that Province. Mr. McKenny has been secretary of the Canadian Corn-growers organizing, since its inception, and has devotel in much time in the interests of improved corngrow ing in Fssex County. He has been untiring in al interest of that county every way the agricultur cessful in his work. His experience fit most suc for his new position in the West, where the weed
problem is becoming so

Your paper has been a welcome visito highly.

|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |

ULY 27, 1911

## Gossip

 Geo. Davis \& Sons, of Glengore StockFarm, Alton, Ont., have sold the tw
bulls which have been advertised he Farm, Ahich, Ont., have sold the tw
buls which have been advertised in thes
columns. Christie Braiden, of Laure columns. Christie Braiden, of Laurel,
Ont.. got the bull Fair Boy sth of Glen
gore, out of Fair Lair Boty 5th of Glengore gore, out of Fair Lady 5th of Glengore,
by Cochrane of Tweed Hill. He is thir
teen months old, and gives promise teen months old, and gives promise of be
coming a grand bull, having lots of size
end and excellent conformation. Andre
Watson, of St. Watson, of St. Mary's, got the excellent-
a bull ofll, Beaver fill Valley. This is a bull of great growth and substance, an
wal make a name for himsell in Mr. Wat-
son's herd. Plenty sons herd. Plenty of females are. fo
sale at fair prices and easy terms
 do well to write this firl, beore buying James Douglas, of Caleder: a, in chang
ing his advertisement, rep.its that $h$
has sold the great ing his advertisement, rep,rts the great Duthie-bied bull, Joy
has sold Morning $=32070=$, to the estate of Morning $=32070$, to the estate of
James Gibb, Brooksdale, Ont. W. E. Cibb, after seeing his calves, yearlings and two-year-olds, was greatly pleased
and chose him to head his herd. Many inquiriee about this bull have been mad Though getting Farmer's Advocate.
tust as in years, he was calves are excellent. I have neerer had Joy of Morning bull cali left on the farm
twelve months old without tworve months old
writes Mr. Douglas.
without being sold,
A few of his bull calves are. left, and and a number of his buill
ers; also some hillers; also someae young cows in calf to him.
Mr. Douglas will have a very fine selechon of Leicesters to offer, of either sex,


|  |
| :---: |

There will be offered for sale by public
auction, at Coulter's Hotel, Cookstown ntt., on Saturday, August 12th, 1911 ,
at 2 o'clock, a farm consisting of 200 acres, more or less, but said to contain
216 acres, being lot number three in ninth concession of the Township of Essa, Simcoe County, and belonging to the
estate of the late James F. Dinwoody, of Cookstown. The soil is a good clay
loam, with about twenty acres in bush. he balance all cleare and well fence A good ten-roomed brick house and three
large frame barns, with stone stabling and other outbuildings are on the property. A young orchard just beginning to
bear, and a never-failing spring creek a also features of this farm. This is very desirable property, comfortable, con-
venient, situated in a good section close to church, school and town. Anyone in-
terested should write the executors, Hon. terested should write the executors, Hon.
J. S. Duff, or Annie May Dinwoody,
Cookstown, or Fisher \& Bell, Solicitors. Cookstown, or Fisher \& Bell, Solic
Alliston P. O., for full particulars. G. M. Forsyth, North Claremont, Ont.,
writes that he has sold all of his eight
 yearling heifers, including some sho
stuff are still for sale. Among his re
cent sales are: To Robert Cowie, Wil cent sales are: To Robert Cowie, Wh
fred, OOt., $\alpha$ Cruickshank Duchess
Gloster bull: to D. Currie, Black's ners, Ont., a Killean Beauty bull, ou
of the imported cow Beautiful Belle; to Arthur Johnston, Chatham, Ont., a goo
sixteen-months-old bull, to Orillia, Ont., the show bull, Kind Carmen
out of one of the best Kinellar Clementina cows; to Robt. Balfour, Elpline,
Ont., another Clementina nine - months
bull, out of the best breeding cow in the bull, out of the best breeding cow in the
herd; another ten-months bull to the
Lakehurst Agricultural Society. also two Lakehurst Agricultural Society; also two
other good, useful bulls, to men in the
ot mont, Ont., two good cows and a heifer
calf; to W. F. Clarke, of Woodville, Ont. a grand yearling Kinellar Mina that
take her place in the show-ring if take her place in the show- of Saskatche
for; to W. C. Sutherland, ormear
wan, N.-W. T., the two-year-old sho heifer, Clementina Princess 8th. This it an uncommonly good Sask., the two-year old McQueen filly, Goldie McQueen, out
Golden Princess (imp.). filly, and was bought for the purpose o
showing at the Dominion Exhibition a
Regina.

CHE FARMER'S ADVOCATE


lass, and is in foal to Sir Albert
and was the bay four-year-old, Fanny Fo
ward, by the several-times champion oth sides of the line, Imp. Right For
vard. She is a superb mare, with siz ality and action. She is in foal to Pance of Orange. All these are for sale,
and are a strictly high-class lot of show
fillies. In service in the Clo are the two big, flashy-quality stallions
Imp. Prince of Orange and Imp. Sir Al bert, the former by the noted Sir Hum sired by the renowned Sir Hugo, and dam Cy Up-lo-Time. Another nice stallion,
Canadian-bred, is Baron Blucher, a bay two-year-old, by the champion, Imp. Royal
Baron, dam the noted champion, Mose Rose, by Blucher (imp.). He Was twic
second at Toronto, smooth to a turn, an has quality to spare. He is for sale.
Look up the firm's exhibit at ${ }_{\text {Look up }}^{\text {Lexhibition. }}$

TRADE TOPICS
Sherbrooke fair prize List. The prize lists for the twenty-seventh role exhibition, to be held at Sher been issued and distributed, and show a large increase in premiums to be awarded. The total amount of prize money to
be divided this year amounte um of $\$ 22,000$, an amount to the large few other exhibitions in the equalled by The prize \%ist has been the Dominion. that the money might be apportioned to
the best intereats cording interests of the exhibitors, acdisposal. Improvements have the board's made on the grounds, including the erection of
everal new horse barns. The applicatlons for space in the buildinge are com-
ing in rapidly, and the live-stock show and
promises to be the largest in the exhibipromises to be the largest in the exhibi-
tion's history. Wm. Morris, K. C., is
president, and H. E. Channell, secretary. copies of the prize list may be had on
the intercolonial railway. The Intercolonial Railway, the people's nects the most interesting and largest towns of the East, and passes through a
country which is beautiful and picturoountry which is beautiful and pictur-
esque. Such trains as the "Ocean Limit ed," which runs between Montreal, Que bec, St. Johns, Halifax, and the Sydneys ave made this line famous, and for busi-
hess or pleasure this railway stands un ness or pleasure this railway stands un-
excelled. A fast, comfortable, pleasant journey is assured to any who have occaon to patronize this line. Some of the nost historic places on the continent are
linked by this Ilne of steel. The anclent capital, Quebec, with its frowning citadeld amous shrines, beautiful terraces, and quaint and ancient appearance, together
with its historic setting, is but one the attractive places on this line. Then there is Halifax, with its large harbor beautiful public gardens, naval dock
yards, and scores of other interesing and educative features. St. John, the city of the Loyalists, also has a fine harbor beautiful seaside parks, where the trees ocean breezes can be thoroughly enjoyed.
All the beauties of Prince Edward Island, rivers, rocks, tides, harbors, towns with cheir parks, and, indeed, the whole coun-
try one natural park, can be reached by try one natural park, can be reached by
this line. Tourists can travel with the greatest comfort through a district of
scenic beauty which scenic beauty, which can only be thor-
oughly appreciated by those who have oughly appreciated by those who have
been so favored as to be able to take the trip. Tourists contemplating e trip through Eastern Canada would do well
to consult E. Tiffin, General Traffic Manor any local city agent and assistants, rates. A very complete set of illustrated
ooklets
is issued by the company for booklets is issued by the company for
distribution, and may be had on applica-
"Ah:so that is the oldest inhabitant?" said the city man. "Venerable figure,
ruly!
How do you account for his having lived all these years?".
"Well," a trife acidly replied the land-
ord of the Skeedce tavern, "I guess it's
reeder. Her two-year-old fill, Lad
Jugo, by Sir Hugo, promises to equa
her in every respect. She is now nursing
grand foal by Shelborne (14363), by
pride of Blacon (a horse of exceptiona),
one, feet and action, weighing a tonn),
which is highly prized by its owner and appreciated by all who have sean rt
Winnings as a yearling-First at Falkirk tirling, Bathgate and Linlithgow; as a
twoyear-old, first at Falkirk, Stirling, Bathgate and Linlithgow; second at High Lhree- year-old, frro at at Peebles; as
Bathgate, Falkirls
Linlithgow. second Linlithgow; second at Stirling; as a four-
year-old, third at Kilmarnock, Ayr and
Glasgow, frst at Glasgow; first at Falkirl and Linlithgow.
First in the brood-mare class at orme town, Que., in May, 1911.

Four of the six days of Calgary Exhibfion were wet, nevertheless the show was well attended, and was a success. In
only one class, beef cattle, did entries fal below those of last year, and the entire
entry list showed an increase of 600 over The judges were: Dr. J. Hugo Reed, or Guelph, Ont., Clydesdales, Shires and
draft teams; R. E. Drennan, Canora, Sask., Percherons, Belgtans and Suffolk
Punches; T. Jenkinson, Seven Persons and R. B. Bevan, Cochrane, Thorough breds, ponies, jumpers and hunters; Prof
Cummings, Truro, Nova Scotia, Hack neys, beef cattle and swine; and S. Shan-
non, Cloverdale, B. C., dairy cattle, All classes of horses were represented largest showing. In Clydesdales, J. A Turner secured the championship with
Ruby Baron, Geo. O'Brien's three-year-
old Dunoon being reserve. There were upwards of twenty exhibitors of this
breed of horses, the prizes being fairls well divided, with Turner securing the
lion's share.
Percherons were out stronger than ever
some nine exhibitors having representa tives out. J. C. Drewry's Habitus was
chaunpion, and Lane's Imprenable was re forve. mares, went to Lane.
Shires were brought out by four firms. Morley J. P. II., owned by F. A. Mc
Hugh \& Son, being placed champion. Solomon \& Cohen had the only exhib
of Belgians, while F. J. Hartall Cheadle, and Archie Jaques, Lam
only entries of Suffolks. Hackneys, Thoroughbreds, Standard
beeds, and all the light classes, were we represented.
In cattle, the only competition in the Seef breeds was in the Shorthorn classes J. H. Melick, Edmonton; Charles F. Lyall urnishing the individuals.
Aberdeen - Angus, Herefords, Galloways Ind Red Polled, were represented by the
erds of J. D. McGregor, Simon Downie \& Son, W. C. Tees, J. H. \& W. E. Elliote, The dairy breeds were out in large numLaycock \& Son, Celalgary; Michener Bros.,
Lacd Deer; I. J. Bateman, Innisfail, and W. J. Tregillus, Calgary. These breeders shires made a good showing, J. J. Rich
ards. Red Deer; Laycock \& MacDonald Calgary; R. Ness, De Winton; A. H
Trimble, Red Deer, and W. T. Shuttle worth, Gaiety Valley, having herds out
Ness secured the champlonship on females,



Among the Great Writers

From Ruskin
$\qquad$ ness and insipidity we turn to the sky as a last resource, which of it
phenomena do we speak of ? says it has been wet, and another it has been windy, and another it has
been warm. Who, among the whole been warm. Who, among the whole
chattering crowd, can tell me of the forms and the precipices of the chain of tall white mountains that girded the horizon at noon yesterday? Who
saw the narrow sunbeam that out of the South, and smote upon their summits until they melted and mouldered away in a dust of blue dead clouds when the dance of the them last night, and the west wind blew them before it like withered leaves? All has passed, unregretted as unseen; or, if the apathy be ever
shaken off, even for an instant, it is only by what is gross, or what is extraordinary; and yet it is not in
the broad and fierce manifestations of clash of the hail, energies, not the in drift the whirlwind, that the highest charactor the are developed. God re, but in the still, small voice ", Modern Painters, Vol. I.
, the lecturings, and teachings, and prizes, and principles of art in
the world, are of no use, so long as happy influences and beautiful things. it is impossible for them to have ight ideas about color unless they
see the lovely colors of Nature soiled ; impossible for them to sup ly beautiful incident and action in heautiful incident and action they see wirld about them. Inform their mincs, refine their habits, and you keep them illiterate, uncomfortable and in the midst of unbeautiful still, be spurious, vulgar, and value-
less."-From The Two Paths.

In looking back from the ridges
the Hill Difficulty in past life, and in all the vision that has been given me of the wanderings principles, has become - this, of all that the first virtue to requirest man is frankness of heart and lip. It inay be proved, with much ce tainty, that God intends no man to
live in this world without working but it seems to me no less evident
that He intends every man to he happy in his work. It is written was never written, 'In the breaking of thy heart,' thou shalt eat bread be happy in their work, these three
things are needed. They melst he things are needed. They must be fit
for it. They must not do too much of it, and they must have a sense of
success in it, that so much work has been done well and fruitfully, what-
ever the world may say or think about it."-Pre-Raphaelitism.
" So much pains you shall take-s the law. Understand it, honor it,
with peace of heart accept the pain
and attend the hours and as the
husbandman in his waiting you shall
hen the laughing of the valleys, an Cestus of Aglaia. "For all noble things the time is ong and the woble "I suppose fery men rew have so earnestly felt - none certainly have so earnestly declared-that the and most Nature is the blessedest and most necessary of lessons for education are futile till you have taught your people to love fields,
birds, and flowers.
Come then birds, and flowers. Come, then, my henevolent friends, join with me in
that teaching." FROM "STONES OF VENICE," " We are always in these days enwant one man to be always think ing, and another to be always workthe other an operative; whereas, the


Sunrise in Northern Ontario
and the thinker oiten to be working, and both should be gentlemen, in the
best sense. As it is, we make both best sense. As it is, we make both
ungentle, the one envying, the other despising, his brother ; and the mass of society is made up of mor-
bid thinkers and miserable workers. bid thinkers and miserable workers. can be made healthy, and only hy can thate that labor can t,e made
thought that
happy, and the two cannot be sephappy, and the two cannot be sep-
arated with impunity.
that we see, or do, we are to desire nevertheless and strive for it, we are thing, in its narrow accomplishment above the nobler thing, in its mighty progress; not to esteem smooth minuteness above shattered majesty not to prefer mean victory to honor-
able defeat ; not to lower the level of our aim that we may more surely enjoy the complacency of success.
But, above all, in our deal ings But, above all, in our dealings with
the souls of other men, we are to take care how we check, by severe requirement or narrow caution, ef-
forts which might iorts which might otherwise lead to
a noble issue; and, still more a nobie issue; and, still more, how
we withhold our admiration from great excellences, because they are mingled with rough faults."

## II I believe that stars, and boughs and leaves, and bright colors, are everlastingly lovely, and to be by all

ROM " FORS ClAVIGERA The first condition of education ork." " "He asks the workmen: (1) ' To
do your own work well, whether it be for life or death. (2) To help
other people at theirs, when you can and seek to avenge no injury. (3) To be sure you can obey good law
before you seek to alter had before you seek to alter bad one
"/ Mind your own business
your absolute heart and soul, but see that it is a good business first, that it is corn and sweet peas you are
producing-not gunpowder and senic." "Well, my friends, the final result of the education I want you to give your children will be, in a few words, see the sky. They will know what it is to breathe it. And they will have under it as in the presence te Father who is in heaven." presence of " A day will come when we shall have men resolute to do good work while they rest," reading and thinkin He thinks a time will come when vas estates must be broken up. "Neithe
British Constitution British Constitution nor British law acre of parchment, sealed with a many seals as the meadow had but tercups, can keep your landlordship
safe henceforward for an still henceforward for an hour. Yo
will have to fight for them, as your fathers did, if you mean to keep His ideal for life: "Agricultu life, with as much refinement as can enforce in it." you may enjoy to any extent, but vou are discontented, your life will e poisoned

FROM " UNTO THIS LAST "So long as there are cold and and around you so long there can be no question at
all but that splendor of dress is a crime.' we should be utterly ashamad, to while a superiority of body in order to
thrust our weaker companions from some place of advantage, we nhesitatingly use our superiorities of yer co them whatever good that strength of mind can

I believe that no Christian naion has any business to see one of ing himers in distress, without helpperhaps, punishing him same time, course, in nine cases out of ten, meaning guidance, much more than
" It would be far better that memlow straight and make a berseshoe plow straight and make a horseshoe point their toes prettily in stir

The present competitive system he world he looks upon as creating crambling each for what mob trampling down its children and old men in the mire, and doing what regular squad of laborers it any bribe or inveigle together, and asterwards scatter to starvation.'

- It follows from the natural limi tation of supply that the accumula
tion of property. in large mase at one point, or in large masses hands, commonly involves, more or less, the scarcity of it at another 'Wint and in other persons' hands
'Thercfore, the modes of its accumuhation and distribution need to be in lation and distribution need to be in
some degree regulated by law and by
national treaties, in order to secure

Manufacturers should treat their workmen as they should their own
sons were they placed in the position of workmen
"Is the word " just' or 'legal
finally to stand?",
": There is no wealth but Life. of joy, and of admiration. That country is the richest which nourishes
the greatest number of noble and the greatest number of noble and
happy human beings; that man is happy human beings; that man is
richest who, having perfected the functions of his own life to the utmost, has also the widest, helpful in-
fuence, both personal, and by means of his possessions, over the lives of
". We meed examples of people. who have resolved to seek, not great er wealth, but simpler pleasure; not
higher fortune, but deeper felicity higher fortune, but deeper felicity
making the first of possessions selfpossession, and honoring themselve in the harmless pride and calm pur suits of peace. ... Care in nowise to
make more of money, but care to make much of it; remembering al ways the great, palpable, inevitable fact-the rule of all economy-tha
what one person has another canno have; and that every atom of substance, of whatever kind, used or consumed, is so much human life
spent; which, if it issue in the saving present life or gaining more is well spent, but if not, is either so much
slain.
life all brevented or so mying consider much slain. In all buying consider first
what condition of existence you cause in the producers of what you buy; secondly, whether the sum you
have paid is just to the producer. have paid is just to the producer ; food, knowledge, or joy, this that you have bought can be put; and, fourthly, to whom and in what way
it can be most speedily and serviceit can be most
ably distributed.

Of the uselessness of a man's possessing great riches, he says:
"Plunged to the lips in Orinoco, he shall drink to his thirst measure oxen on his lands, he shall eat to his hunger measure-more at his peril. He cannot live in two houses at
once ; a few bales of silk or wool
will suffice for the fabric of all th
clothes he can ever wear, and a few clothes he can ever wear, and a few
books will probably, hold all the furniture good for his brain.
ical The first necessity of all economical government is to secure the un questioned and unquestionable work that a man who works for a thing shall be allowed to get it, keep it, and consume it in peace. This, say, is the first point to be secured
by social law."
hif we made in our dockyards stead of carry timber and coals, infor the brightening of domestic, solid
culinary fire, instead of for the averting of hostile liquid fire, it avert-
have some effect on the taxes."
" No man can become largely ric
by his personal toil. The work of his own hands, wisely directed, will, his family, and make fitting provision or his age. But it is only by the discovery of some method of taxing he labor of others that he can be-
ome opulent. Every increase capital enables him to extend this axation more widely; that is, to invest larger funds for the mainten-
ance of laborers-to direct, accordingly, vaster and yet vaster masses of labor, and to appropriate it profits."

## An Accident to an Es

 teemed Contributor. acquainted with Mrs. H. A. Beaders who have become of this city, through her articles contributed for many years to "The Farmer's Advocate," over the sig nature of "H. A. B.," will be disvery seriously injured. has been 20th, while she was driving in two-wheeled cart with a friend, the pants of the cart were thrown out Mrs. Boomer striking against a tele graph pole. Indeed, at time of writing it is not known how serious theextent of her injuries may prove to be.
Mrs. Boomer, who is over 70 years
of age, is the widow
or, and has for many years bee the Dominion. Indeed, she spent the forenoon of the day upon which she met with the accident in packing bales of goods to send to the suffe
ers from fire at South Porcupin Mrs. Boomer has also been a active worker in the Daughters the Empire and the National Council of women, of which she has held the in London. It is earnestly hoped that her in
juries may not prove as serious as juries may not
has been feared

## Hope's Quiet Hour.

Noted in God's Book.
Are not these things noted in Thy book
Ah, little recks the labore
(iod his work is holding him to
The loving, Laborer through space and

The prophet Malachi has told us that
when two people who fear the talking together, the LORD is nord arl listening to their conversation, but is of remembrance it recorded in His book St. John, we are In the Revelation of Cooks shall be opened, and the dead shall all be "judged out of those things which were written in the books, according to
their works.."
We go on our way so carelessly, forgetting that a record of our secret thoughts. Words and actions is always being made. needs no record. for everything is writo in the book of His remembrance. But the figure of a Book is often used in the If we could open the right to use it. life, how glad we should be to tear out
some of kind words are written there, and we would give a good deal to unsay them.
Our reckless the have hardened thoughts-thoughts which blacken some of the white sheets? But the records are not all against us. There s, we are told, ", another book, which is
he book of life., There are engraved in
Then the book of life." There are engraved in
glowing letters all our longings after holi-
ness, our beautiful thoughts and earnest
prayers, our brave and gentlo words, ou
loving acts of service. loving acts of service. The oup of col
water given by a child to a weary travel ler is soon forgotten by the giver, per haps it is forgotten by the receiver, bu forget it through all eternity-if it we inspired by love.
inscribed our own fault if our names are inscribed in the wrong book. Once a
capitalist gave $\$ 100$ to a charit. once reduced his workmen's wages and a he appeared to be generous-at the ex
Do you think the recording angel could be deceived by such a showy act as that ould such a loveless sift be sccepted by
Mercenary almsgiving has beem defined purpose of receiving something for the something more valuable-ing return. One an spends his money on a fine house or is with the intention of winning the ra spect and admiration of other people, the siders is well worth the price. The necond man may be wiser than the first-a respect is worth more than fine belong ings-but is his aim any more unselfish ? he is anxious to buy, and-that is ail The money is spent, but ho has missed the privilege which might have been hisbook of life. God was down in God the transaction, nor even man-arcept the for himself. It was trying to win something transaction-so was simply a business work done for so much admiration. The Is it only millionaires whe indulge in this kind of giving, feeling satiafied that Is it only politicians-being ercessivel, generous before an election-who fanc they are only pursuing their aims ? selves, and we may find that much of ou generosity, much of our energetic workin
in a good cause, is only selfishness over. There is a great deal of gilde and service poured out every year in the
sacred Name sacred Name of Christ, but He only knows how much of it is pure and un-
adulterated. Ezekiel said that God wa looking for gold and siel said that God was among His
loople, but could people, but could only find dross, "al they are brass, and tin, and iron, and
lead, in the midst of the furnace; the ead, in the midst of the furnace; they are f will gather you, and whow upon you in the fire of My wrath, and yo you in
melted in the midst therent," be God is looking for pure metal, aod how
glad He must be when He finds a man or woman of sterling quality. To-day I
read in the paper the terrible story of the fres which have raged so fiercely in "to numerous to be recorded in detail"so said the newspaper reporter. And yet
they are recorded in detail-written in the
book of book of life. The heroism was there be-
fore, and God knew the powers of each
soul, but the test of fro view. Pessimists are inclined to mourn over the trailty of human nature. In have
heard them talk as though men and women were mostly of very poor quality,
and as though the heroic deeds of the past were far beyond the commonplace
people of to-day. But God knows betChe papers are constantly telling us how ordinary men and women rise suddenly to
meet some tremendous strain meet some tremendous strain, antonishing
the world and themselves greatest and noblest deeds are never
heard of by the world-but we shall all know of them when the book of life is
opened. God will not let one fall for-
gotten to think that His earthly children are al- al-
Ways grieving His Fatherly heart by Ways erieving His Fatherly heart by
their wakness and sin. Often He is
able to aiose ahle to rejoice over them, as they rise to
plous heights of suliforgoter as this fire in North Ontario. that com-
momplace poople reinoce the he ond monplace people rejicice the heart of God
by their novility of soul?
Fwery day many lovely deds In His hook. Perhaps it is a bated
Hentle
unanst doletulnuss or against common-

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a bright smile or hears a kind word, bu
(God has saon how hard it was to kee


 people aro close and mean? How is it. geing one like it. This spring, when knocked or into a box over which was
then, that hundreds of thousands
 last two days, for the sufferers from fire. Is is iikerys that tod would have crateoded
so many human souls if He had not so many human souls it He had not been
abbe to fond great joy in their splendid qualitios. He can see the kindly giving
up of selilish pleasure by quiet mothers and the steady persistence in uncongenial or tiring work by millions of ordinary
peopple. He notes down courage and patience displayed on "trifling" occasions -though nothing is really triffing, for each moment character is growing.
What surprises there will be when the bookg are opened!
nuch revealed that has long ago been
orgotten on anath forgotten on earth, much that ono been
and one human soul knew about, and and one human soul knew about, an
which only God has remembered. Hought is too secret to know that no less word is forgotten. And it daily inspiration to remember that God notices each sunny smile and cheory word,
that He is pleased when the crumbs are rushed from the table and scattered in kindly fashion to His birds, when an hese things are noted in His book. ,



DORA FARNCOMB.

## The Beaver Circle

OUR SENIOR BEAVERS

Our Last Competition Caterpillar," the prizes (equal) have cone to Lestlie Houston, Edith Beattie
lara Kilbride, Lena Davis. Honor Roll :-Winifred Colwell (whose
composition might have won a prize if she had not put it so much in catalo if Corm), Don Warren, Ezre Martin, Donald Corm), Don Warren, Ezra
Allan, Harry Stephenson

The Essays.

$\qquad$
time ago, but did not see it in print,
but I hope this one will. I am going
to write a story about a Cecropia Moth.
One morning as I was walking along
the road I
on a stick.$t$ some berry and parsnip leaves and
ing. It was a green caterpillar, withwo sort of spines, which were coveredwith prickles on each segment. It was
made up of thirteen segments, and hadmade up of thirteen segments, and had
six legs and eight pro-legs. I kept himsix legs and eight pro-legs. I kept him
in the box a few days, putting in fresh
leaves each day when it hecame veryestless and seemed to be seeking someplace to hide. It was restless all day,had a sort of web partly spun about it,but you still could see the outline of
the caterpillar. When I looked in laterhe was enveloped in a mass of threads,
with a very tough outer skin. I left theocoon where it was made, and one day,
uite a while after, when I looked in I
was surprised to see a hole in the cocoon
and at once I knew the moth had come
sut. After looking in the dead leaves
Which he had left in the box I saw the
Inoth. It was very beautitul. I Iept
a few days till it strengthened its.

THE FARMER'S ADVOCATE
an orange, forked tube behind its headilar device for protection, you see, to
that possessed that possessed by the skunk. All the
swallow-tail caterpillars

$\qquad$

Late in September a lady found caterpillar on a willow leaf. It was hor inches long and almost as large as and yellow went around its little body. The lady carried leaf and sleeper home. She also brought some willow leaves for
it to eat. She put hem all into glass dish and tied lace over it. In just All the leaves wuest was not to be sean. green bag was left. It was a littlo inch long, was made very neatly, and looked very much like a little bed or
cradle. No stitches were to be men, and the seams had an edge like gold cord. It was ornamented with black dots like tiny buttons. The caterpillar had sown
it self in. His old elothes wers noar by, looking as if they had been pushod of in hurry. Early in November the sleepe lovely butterly came out. It had brown
and golden wings with stripes of black and golden wings with stripes of black
on them like cords. Fach atripe hed. feathery fringe. On the edges of the wings were gold and yellow dots. The
head was black, and it also had gold and was black, and it also had golla the wings was darker, it was like orange-
tinted velvet. All these wonderful changee ook place in less than two monthe A KILBRIDE (Age 18 years), Miscouche, P. E. Islan

Dear Puck and Beavers, -I enjoy rea ing the Beaver Circle every week. I am goillar to write a compatition on a cete Butterfies lay eggs on leaves, or o the cocoons which they come out of pillars out of these egga. They are di Perent colors. Some of the colors they
are are white, gray, brown and black Some people are afrafd to touch then
because they think they will hurt them because they think they will hurt them
There is hair all over some of them and they are called larveg.
Last summer I caught two caterpillar on leaves and put them into a little box
I put holes in the top of it so the Could go in. I gave them groen the air and tender twigs to eat. At first they gan to eat less. $\begin{gathered}\text { about a weekk they be } \\ \text { One day I looked }\end{gathered}$ them and I saw that there were green leaves stuck to them. The next day
there were silk threads outside of this. They did not eat anything then these covers, which are called are in They were like this all winter. Near spring $\underset{\text { I thought they were dead, an }}{\text { took the cocoon ofl one of them, }}$ found that it was living. There not so many rings around it, and were
hair was all off it. It had come before it went into the had come oll
leot had all disappeared. was the shape of a butterfly's head and
body. I put them back in the box again and
waited to see what they Whe
o. When the whice they would turn in-
pring they turned came in pring they turned into butterflies. One
was a great big brown-spotted one, and the other was a white one... The gray or their food around at night lilled mooking butterfies get honey called mothe. The fowers and terpillars yet this not seen very many guess I will close now, hoping I am taking up too much of your space.

## A Few Wopds More.








 grown, and presently it breaks out of
the cocoon or pupa-case, sits for a while body of the moth is usually
Bloomingdale, Ont. the cocoon or pupa-case, sits for a while thicker than that of the butterfly, and Dear Puck and Beavers,-My father
fanning its wings to strengthen them, the division into head, thorax and ahdo- takes "The Farmer, Mdveren
then flies off. then flies off.
It is very odd that though the female $\begin{array}{lll}\text { men not so well marked. morax and abdo- takes "The Farmer's Advocate." This } \\ \text { (3) The butterfly sits with its wing is my first letter to the Beaver Circle. }\end{array}$ It is very odd that though the female
moth or butterly seldom sees its offspring, and never tastes the food they
need, she never fails to lay her eggs need, she never fails to lay her eggs
right on or very close to the very kind of food-plant that the young caterpillars
will need to live upon. It is odd, too that as soon as the young larva hatches
out of the eggs, the very frrst thing it out of the eggs, the very first thing it
doess is to eat up every bit of the egg-
shell. it the eggshells were shen. "give away" the neighborhood of
might " eggells were the
the larve to enemies. the larves to enemies. The larvzeod them-
selves being usually colored like the selves being usually colored like the
leaves or other substance on which they feed, often, for that reason, escape the
sharp eyes of birds or other sharp eyes of birds or other enemies.
Hence caterpillars are of many colors
and markings. ance caterpilars are of many colors
and marking. Some are green, some
gray, some brown or bluish; some, striped or spotted; some arparently bare, al-
though all show hairs or pile of some though alk show hairs or pile of some
sort under a strong enough microscope, some covered with long hairs like the
"'woolly bears". you all know. In fact, there are caterpillars of all kinds, dit-
fering according to the species of insect to which they belong. species of insect
The pro-legs, or false The pro-legs, or false legs, to which
one of the prizewinners referred, are simone of the prizewinners referred, are sim-
ply extra legs which the caterpillar needs
to support its to extra legs which the caterpillar needs
changes to an extra length. When it
codult insect these extra changes to an adult insect these extra
legs, being no longer needed, disappear. legs, being no longer needed, disappear.
it is worthy of note, too, that the
breathing pores along the sides breathing pores along the sides of the
caterpillars are never found on that part caterpillars are never found on that part
of the body upon The caterpillar, you know, does grow. breathe, as you do, through the mouth but through holes in its sides. mouth, Just one more point: Have you ever noticed a caterpillar swinging you hever
constantly from side to side as it cread along a leaf or twig? If so so, you had
better examine closely better examine closely to see if it is hod
spinning a little zig-zag ladder spinning a little zig-zag ladder of silk
thread on which to walk that it may have a better hold. walk that it may
All of the changes from caterpillar to
insect sometimes insect sometimes take place, according
to species or temperature, in


7038
22
Five Gored Skitro
to
waist. Phease order by number, giving age at least ten days to receive allowing Price ten cents per pattern. Address,
Fashion Dept., 'The Farmer's

## The Ingle Nook.

$\qquad$

 (3), When encol nainame will not be pablished
anyone, place it it a


## Conquering Plainnessof

 lepartment of a usually in the Women'sa paper, or in a Woman's Mepartment of a paper, or in a Woman's
Megazine, one reads a very silly arrticle
dwelliny emphatially lwagaine, one reads a very silly article
dwelling empatically on the nocossity for
buauty in woun teauty in woman. One such was read
the other day in which the tinger was given that in which tho impression beautiful, that the greator nobotioy if not time must be spent in an effort on her beautiful, and that the chief reason for pleasing in the eyes of that sho may be Now, few will say that a woman should
devote no attention ane. To have ato ther happea the essentials of cleanlinem. io negliect
and care of hair, teeth anding one's clothes on carelessly; to take put colors. or to ther skik; to wear gaudy wear untidy shoes sess in any way: to "queerly";-these are mistate to dress, not easily condoned even by the mots in
dulcen making the best poosif perfoctly right in that is a very different thing troself, but her whole thought and hing from letting
end salf Docomoman has a right to let her self become a silly empty-head for her-
murere sake of being bount practically what she must become, is it it
not and that is not, it she lets sher thust beocome, is it
lessly on such themenghts run ceaselassly on such themes? Woman is not
even her own tomest so. Some has been
put into this world for $n$ botter pureose than that.
Then, coming right down to platp
few women truth, is it not so that very
lookinmen are really beautiful ? ${ }^{\text {, }}$, vice",



JULY 27, 1911
Chen there is always the one who
downightly plain all through, or so near
y all through as a ly all through as to amount, practical
to the saime thing.
Now, what about these last mention
Because they are not beautiful, even af Because they are not beautiful, even after
they have made the best of themselves,
nust they eternally shrink of must they eternally shrink into a corner
or be pushed into a corner in order to make way for the acknowledged beauties? be confessed that the latter do meet with a very great deal of adulation.e Posi-
tions-if they are in need of them-and husbands do fall in in theed of them-and
cause of their terling qualities of good sense and kindiness, in addition to those alluring
looks," no one should feel that "looks," no one should feel that they re-
ceive aught but their due. At the same time, it is an acknowledged fact that the extremely pretty girl is very
often a spoiled girl. She receives so often a spoiled girl. She receives so
much homage that she too often becomes vain. Her friends find out her weaknesses, and the friendship becomes, in
reality, but a cobweb thread. She wins reality, but a cobweb thread. She wins
a husband, but there comes a query-Is a husband, but there comes a query-Is
the best kind of husband won by mere
looks Some of the other girls win husbands too, and who can say that they
are quite debarred from the picking ?
There are usually compensations, and so homely girl, need not or the despair of winning her share of the good times, and good
friends, and mand After all, the sterling
gualities counts they really do count-and hold their place
better in the currency of the things that

THE FARMER'S ADVOCATE


Quilt Patterns-Onion Maggots. Dear Dame Durden and Ingle Nookers, saw a request for Irish Chain quilt, and,
"'The quilt is made of a patched block, and a plain block with a small square are put together alternately throughout the entire quilt.
"If three colors are used, as given in
the pattern, it makes the double chain; if a single chain is double Irish just the same, only substitute ple blue throughout where pink is given in the
pattern. pattern.
"Please answer the following through The Farmer's Advocate ': "Will lime prevent onion maggot? If
so, when should it be sown, and what quantity, and slaked or unslaked?
"Am intending breaking up a piece of sod this fall for a garden plot next sum-
mer. How should it mer. How should it be treated so as to insure against grubs destroying the vege
tables? Thanking you in advance.


## 3

Plaindlack


## ["Black" "Irish Chain." <br> making a mistake when

| 1 | 2 | 3 | 2 | 1 |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 1 | 2 | 1 | 2 |
| 3 | 2 | 1 | 2 | 3 |
| 2 | 1 | 2 | 1 | 2 |
| 1 | 2 | 3 | 2 | 1 |

"Double Irish Chain

maggot (which is really the larva of the onion fly): "This is one of the most
severe pests when it enters the forl severe pests when it enters the field;
there seems to be but little encouragement in combating it. A thorough application of ground tobacco thorough ap-
the row down the row seems to act as an insecticide and a repellent, besides being of value as
a fertilizer."
Greiner Greiner says:
destroying Greiner says:
destroying this germ-growth. health. hand upon which to deposit their eggs; earthing the young plants well up above the collar so that the flies are prevented
from reaching the bulb; pulling and destroying the plants first affected, by
which means the migration of the magwhich means the migration of the mag-
gots to sound bulbs is checked; the gots to sound bulbs is checked; the
avoidance as far as possible of natural avoidance as far as possible of natural
manures, in which the larve of these insects live; or finally the application of
lime to the land. Orpet recommends the lime to the land. Orpet recommends the
following method, which is well worth a iollowing method, which is well worth a
trial: Half a pint of kerosene is well
mixed with a
 terial, preferably wood ashes, but sand,
sawdust, or even dry soil will do tairly well, atter the plants are well up and tho
trouble is at hand, a sprinkling of thi mixture along the rows about twice a
week during the time the fy work, willing the time the fly does its the trouble. After the end of May there
is little danger, as the onions are of a is litue danger, as the onions are of a
good size and not so liable to injury,'
"I invariably I invariably plant radishes, and often
cauliflowers and cabbages, in the imme cauliflowers and cabbages, in the imme-
diate vicinity of the onion patch, or perhaps a few rows here and there right in pear to act as ""catch" plants. At least they ar" usually more or less infectod by acked. while the onions are seldom atstrong lime water reason to belleve that furnt lime, will kill all the maggots with Which it comes in contact. To apply it,


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some other crop in order that the flies thoroughly that the application wlll roach cmerging from the pupe that remain in the worm feeding at the rootatalle or
the soil may not find onion plants at bulb.
"When the plants are in a hotbod, maggots can be destroyed by inserting bisul-
phide of carbon Bailey recommends to the soil. Prof. when transplanting, in. a puddle the plant phur ar has been added, and aprinkle sull of course, all infested plants ahould be I pulled up and burned at anto :" you. One above will be of value to says in regard to your sod gardon plot,
that the best plan is to hare quite shallow, and manured if it neceasary as soon as possible, then dooper again cate in the fall to break up the pupefrost. Turning hogs on exposed to the of some value, as they root out many of

Some Unique Patterns Dear Dame Durden,- 1 saw a requept in enclosing drawings of some of and I am The single star pattern is a very prot about $4 \downarrow$ inches long and 2 diamonds, each widest part, but, of course inches at the made larger or smaller as desired. very pretty quilt has the diamond of red
calico, alternating with bue calico, alternating with blue, on a white
ground. Set the blocks together plain white squares or strips.
The Albany quilt is a very popular
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Turn an old pan or kettle over irons hot much quicker. This also keeps the hot much q.
room cooler.

Tumblers that Stick
When one tumbler sticks in another so
that they cannot be pulled apart without danger of breaking, fill the upper one with
very cold water up to the sticking
and set the lower one in warm (not too
hot) water. The upper one will con-
tract, the lower expand tract, the lower expand, and so they may

## To Cool Water

To cool water in a pitcher without ice.
wrap the pitcher in
it in a cool, drafty place.

## To Color Shoes. To color white canvas shoes, paint them

with water-color, as dyeing is likely to to
shrink them. To clean white kid shoes. shrink them. To clean white kid shoes,
rub with a cloth wet with gasoline and
dipped in powdered airy place, but not in the sun.

To Work Buttonhole in Lace. Baste small squares of thin lawn under
each place to be worked, then cut the buttonholes and work as usual, cutting away the superfluous lawn aaterwards.
Also put tiny bits of lawn under each
button, Also put tiny bits of lawn under each
button.

## Milk for Starch.

[^0]pretty, and it is better to make it of
two kinds of calico of the same pattern,
having as colors red having as colors red and blue alternate blocks, set together with blue.
There are many other patterns, namely Churn - dash, Album, Monument, Necktie
Lost Ship. Steps of Jerusalem, and sev. eral other, patterns I could procure if any

"Albany" Quilt.
Hoping this letter is not too long for
new member, 1 will sign mysell Filgin co. ont. scotchi molly.
Agann we heartily thank all those who

The Scrap Bag.


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[^1]tremely small, whereas the glands at the
back of the nose and in the throat are large. The least thing that interferes
with the intake and output of air through these narrow passagee afects the threural
health, and more particulurly the cordil tion of these glands. thi glands of the throat ah
nature's sentinils.
Nature has provided an abundance of
glands in this location at birth, because Children are epoculiarly susceptiblo to to air-
borne diseases; by that $I$ mean tho borne diseness, by that I mean those dis-
eanes on early childhood, such as measies,
chicken-poox, whooping cough and diuh chicken-pox, whooping cough and diph-
theria, which are due to germs that are carried about in the air. These glands
are Nature's sentinels which guard are Nature's sentinels which guard the
passagareway to the lungs and blood, and protect the body against the invasion of Chese germ diseases. As wo grow older
and stronger, and are more able to re sist the action of gram, these lyands in
the nose and throat shrink, because we To longer have the gheat need tor them
we had in childhood. we had in chilahood.
But any breathing during the early years of life
causes these glands to take tional growth. In tima large masses of
them may be tormed co mpely hem may be formed, completely stopping
up the air passages at the back part out the nose, so that breathing through the nose is not only extremely difficult and cases is artially performed, but in some imposible. Mouthbreathing, not only while asleep and dur-
ing the hhe the night, but at all times, becomes
ther
whul the rule.
Who has not noticed such a child, with
its mouth hanging open, the lower lip
usually enlarged, the nostris pinched to gether with scarcely any opening, th
bridge of tho nose unforme long and narrow with grode the mout the whole face wearing a dul expresion and the general manner listloess and pre This may be an extreme picture, buc greater or less degreo trom this condik ton, are found in the public schools the physicions on tho the Fortunately, the physicians on the health boards ard these grow the-called adenoids-and so enabling them to breathe into their bodies A great many people pression that the nose is is mader the im im
smell smell with, whereas it should more rightly
be regatid cenegarded as the príncipal organ of
respiration ar breathing this is understood, together with moment that with out air hite is impossible, we can
appreciate the It might he mportance of this subject. mouth-breather, the child would bough a to take in a sulficient sumply o be able (the life-giving element in air) for all the The air the body, but this is not so passages, because this organ the nasal Nature with the necessary apparatus Ior warming, filtering and moistening the
air before When the nose ere the throat and lungs. child breathes through the mouth, the cold, dusty and dry air coming in contact
with the yelicate coverings of the upper
air passages (larynx, bronchial tubes, and


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SAVE EXPENSE write por full inpormation
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torónto.
St. John, N. B.
AND


When, in spite of the best hygienic
roundings and home care, adenoid gro
will develop, as they frequently
will develop, as they frequently do in
best-regulated families, only their rem :he
by surgical means will tree
this hampering condition, and give it that
healthy hampering condiook upon life which is
child's due, and which can spring only
from a healthy body.
The Little Mother By Estelle M. K
Cuddle down, my bairnie,
For cauld and wet's the
The birdie's a' hae shut their
The sheep have left the heather,
They're sleeping safely $i^{\prime}$ the fauld
So close to ane anither,-
So close to ane anither,
Cuddle down, my bairnie,
You're safe with little mither.
Our mither dear, is far awa
She left us twa the gither
She left us twa the gither,
She whispered when she sald good-b,
Takc' care
And care o' beby brither,
And
There the bonnie little lad,
So cuddle down my bairnio,
Sleep close to little mither.

The Homely Girl.
Mary Abby sank into the nearest seat and closed her eyes with a little groan.
She would not solved, until the cars started and all that pretty leave-taking out there on the
platform was over. She did not want to
see see any more of it, She did not want to hurt. There had been no one out there
to "take leave" of Mary At "'I won't look! I won't look!" the
 r'll see somebody kissing somebody else-
a mother or father or something a mother or father or something
can't help seeing 'em; I won't look She sat, clutching her shabby hand-bag,
stifily upright on her seat stretched nearly three her seat. Ahead
travel. And days of of them-Mary, Abby she got to the end
bitterness of her dreary littlegain in the hen she got to the end of the three there to kiss her and would be no one
She had watched two plessed!" the platform, when the train meet out on
into the stationmed and they had kisted
other other, and one had thaid. had kissed each
Probably everyone that wou blessed'"' Co this car-that she could hear getting on
in the aisle-would find a by "Everyone but me, but just me,"
hought Mary Abby. Suddenly ropped the shabby bag, and hurried her ands over her ears, for all around her nt to hear.
Gooying things she did not Good-bye, good-bye, dear."
O, must you go now? Give me just one more!? ' O , good-bye.
with the bitter heart had the gir ne more kiss. heart had known it was Gie more kiss.
Good-bye. I shall miss you ittle girl."
"'lll write and write; good-bye, daddy,
you darling!" It was then Mary Abby had darling!"' It was then Mary Abby
hurt her up her ears. The daddy things
most. Why must other girls all their fathers by that name that had
been hers, hers? What right had they A raucous voice shouted. . All aboard ? shut out by a tremulous that little not not be
brown
fingers. Then Mary Abby felt jerk, another ungentle one, a felt a leady pultle.
They had started. The three doll begun-the started. The three days had
loneliness.
Most of the people who had trampe in the aisle must have gone on into the
car ahead, for Mary Abby's ear we the another seat nearer the center moved to She wanted the "daddy" girl behind her
where she need not look at her Sher girl was othe one wich one the "She had
ath straining nedy". Mast glimpse of "daddy" out-
side. Mary Abby had caught sight ourn, toved to the teartul face. Then she had


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ARE BUILT $\left.\right|_{\text {To turn easy. }} ^{\text {To skim close }}$

| $\substack{\text { To give thei users good honest } \\ \text { returus tor ror the money invested }}$ | AND DO IT |
| :---: | :---: |

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 this feed trough. these troughs stood the test during
the past 5 years that we ard to ship any size you select tilling
stataion on the undertar you can ship them back at our ex
pense if not first-clase We know you will be devilighted axilit
themo Send for Catalogue 22
to-day. We suprly

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JULY 27, 1911
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May be the dough had forgotten
to rise.
Or had risen quickly overnight and fallen again-
To rise nevermore.
Twas weak flour, of course.
Meaning weak in glesten.
But FIVE ROSES is strong, unusually strong.
With that glutinous strength which compels it to rise to your surprised delight. Stays risen too. Being coherent, elastic.
And the dough foelo springy under your hand. Squeaks and cracks an you work it
Feel the feel of a FIVE ROSES dous Feel the feel of a FIVE ROSES dough. Note the whanderful smooth texture aoft-veloeth. Great is the $b$
Your dough! Try this good floers,

The Absolute Purity of makes it especially desirable for Preserving. The makes it especially desirable for Preserving. The
recipes work out right when ST. LAWRENCE GRANULATED is used-and the Jams, Jellies and Sweet Pickles are sure to keep.


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brated Washington Monument in Ameri-
ca, and the art of the modern enginer
ca, ca, and the art of the modern engineer
should be quite caphle of some simiar
feat here to arrest, if not to retrieve, teat here to arrest.
the present fault.

Undoubtedy many more people might
write tor the press than do, -at least as
Har as write for the press than do, at least as
tar as practical articles are concerned.
On the On the way through life most poepore find
out many things that have been a do
 their privilege, it they be unselfash, to
sive these
periodicals of the the world through the Many are deterred from writing for the
public by the fear that they may not be able to composor nicely, yey may not bet be proce
tical writing there should be little pause
for thic
 ing above all things circumlocution and
nfine" writing. $A$ straight, simple and
nition




$\qquad$
 It is ansea in his readers, the produce better.
aloud hefore subse to read an andine article rial roomse submiting it to the edito-
repetition of of words.
res so on inharmonious




Dates of Fall Fairs, Ontario, 1911.
$\qquad$
$\qquad$ cultural Societies Branch of the Ontario
Department of Agriculture
Mison, Sup $\qquad$

$\qquad$ | Kirkton. |
| :--- |
| L.akefield | Abingdon. Alfred....

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Bothwell's C'orners
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Burford......
Burlington
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${ }^{\text {Carp...... }}$
Cayuga:.ale
Centreville
Charlton..
Chewry.
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Colborne
Collingwo
Comber.
Cookstown
Cooksville.
Delta...............
Delaware...
Demorestville
Desboro.....
Dorchester.
Drayton.
Dresden.
Drumbo.
Dundalk
Dunville.
Durham..
Flimira...
Elmavale.
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Fenelon F'alls..
Fergus....
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-ort William
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:ravenhurst..
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general farm use -8 to general farm use -8 to 12 tohs
an hour. Style 16 A handles 25
tons an hour-great for threshtons an
Equipped with Knives that STAY Shapp Specially-tempered knives made for us in Sheffield, England, by Spear \&
Jackson-knives that hold a keen edge longer than you would think possible. Model, pictured here, uses only 4 to 8 horse-power to cut and elevate 400 pounds a minute. And it is mighty hard to get it out of order
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QUESTIONS AND ANSWERS Miscellaneous

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Intar is hame in the nish, from toon

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 and
$\qquad$



|  <br> CO... Drugists, <br> 171 King St., E. <br> TORONTO, ONT |
| :--- |



NOTICE TO HORSE IMPORTERS Gerald Powell, Commission





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Auctlon \&ales of Horses, Carriages and Harness
everyMonday, and Wednestay Horses and Harness
always on hand tor private sale. The only horse exchange
 J. HERBERT SMITH, Manager

Imp. Clydesdale Stallions and Fillies for Sale
 fooled or misled, but come here and convince
J. \& J. SEMPLE, Milverton, Ont., and Lu Verne, Rock Co., Minn., U. S. A. Ormsby Grange Stock Farm, Ormstown, P. Que, Canada IMPORTED CLYDE FILLIES



A FEW CLYDESDALE SELECTS LEFT. I have one 6 -year-ola
 tion in Canada, nor no T. D. ELLIOTT, BOLTON, ONT.
better prices tor a buyer. T.

| Mount Victoria Stock Farm, Hudson Heights, P. Q. $\mathrm{W}_{\mathrm{e}}$ have for service this season the Champion Imp. Clydesdale stallions Netherlea, by Pride of Blacon. dam by Sir Everard, also Lord Aberdecen, by Netherlea, and the Champion Hackney stallion Terrington Lucifer, by Copper King. For terms and rates apply to the Hackney stallion Terrington Luciter, by Copper King. T. Banager. MACAULAY, Prop. $\begin{aligned} & \text { For terms and rates apply to } \\ & \text { ED. WATSON, Manaiker. }\end{aligned}$ |
| :---: |
| JUST 3-year-old Clydesdale Stallion |
|  |
| My latest importation arrived June 6, 1911, ranging in ages trom 1 to 4 years, and are all of good quality and large type. Have also a couple of stallions tor sale at right prices. Long-distance phr-e george g. Stewart, Howick, Que. |
|  |  |
|  |
|  |
|  |
| Robert Miller, Stouff ville, Ont., can supply young bulls and heiters of the very prices that you can afford to pay. The young bulls are by one of the greatest sons of White hall Sultan. They are good colors, and will make show bulls. I also have two good imported bulls at moderateprices and of choice breeding, and some cows and heifers in calf to Superb Sultan: the calves should be prices and of choice breeding, and some cows and heifers in calf to Superb Sultan: the calves should be you to write, stating what you want. Glad to answer inquiries or show my stock at any time. Business established 74 years. |
|  |  |
|  |  |
|  |
|  |
| Bros., Appleby, Ont., Burlington |
|  best Scotch breeding ; also one imported bull, an extra sire. Farm 14 mile from Burlington Jct.Sta. |
| Salem Shorthorns <br> ferent ages, for sale. They are bred in the purple and should interest any body in search of the right kind |
|  |  |

## QUESTIONS AND ANSWERS Veterinary <br> stock questions.

 of their team of mares have a sore on topy the collar situs. Theshave no
have have no sore shollders, and their collars
seem to at well. They have ing steadity. Thell. The sores have been work ${ }_{\text {raw. }}^{\text {2. A jearting mare mas a bog spavin }}$ Is there any cure ? If so, what is it?
s. $A$ mideleaged maree came in season
avery every two weeks. What was the cause,
and conul you sive a bred oach time. 4. A cow would not give milk out of
one ot her teats after she had been milking a week. She was miliked, and her
baf bathed in hot water
 Ans, 1. Put a hot bran poultice on the soro necks each night tor two or threa
nights.
Get one ounce or atactate and mix with a pint of water, and wet the eores with the mixture throe or four
times a dav 2. Apply to the bog sparin a blistor
composed of one dram of binloutho ot

 3. Nothng can be done tor a mare thai
 cil 4. Thero is probably some growth in in
the mik duct. The use of at miking

 to consult some competent roterinasa) difficult urination Horse has had a lot ot troublo with hio
water.
$H 0$

He is $a$ young horse wiw whout soo thas. end is very ambitious without moking suater two and then when dens | does, he nearly allways does it inside his |
| :--- |
| shoath. |
| This | color at times. and at other times it

looks about right.

 2. Is it kidney disease ? 3. What remedy would you recommend
4. What is the cause of this horse ing water inside his sheath? horse ma

Ans.-It is not possible for a horse to
retain the urine for two or three deas retain the urine for two or three days
without showing signs of intense pain.
The chances are hr when you do not see him. Some horses
will not protrude the penis trout sheath in the act of urination, and noth cept kerping the parts thoroughly clean Wash out the inside of the sheath with
warm water and soap, then smear your
hand and well up in the sheath, grasp the end or arr
penis and gently draw it down times a bean-like formation is found i
the opening into the penis. present remove it. and smear the who
organ with oil. It may be necessary to
wach Wash out every five or six weeks to kee
the parts clean if he refuses to draw the penis when urinating. An occasional
dose of sweet nitre will aid in keepin

GOSSIP
Volume 22, of the Harmpshire Dow
Flockbook, has reached "The
er's Advocate". offee, from the Secretary Rawlence, The Canal, Salisbury,
England. For Hampshire sheep-breeeders fund of information, including flock ords and ram entries from Ab11 to B798
The Asscint Shepherd's Prize competitions for rea rearing
the largest percentage of lambs and

SUMMER COMPLATNT
Is one of the most troublesome troubles of the Hot Summer Days. The Old and the Young, all affected alike.

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 Extract of Wild StrawberryIs the most effective remedy known for the cure of
DIARRHEA, DYSENTERY, COLIC, ERA INFANTUM, AND ALL SUMOL COMPLAINTS.
This stering remedy has been on the market tor over 65 years and has ye failed to do what we claim for it. insist on being ask for Dr. Fowler's and Mor biven wat you ask for. Mrrs. C. E. Mills, Teulon, Man., write a little girl five years old hot weather of last summer during the bad with the Summer Complaint is I thought we were going to lose her. We writh everyting we could think of but without success. One day one of our with the little girl advised us to try Dr. Fowler's Eim. H Wild Strawberry, which we did aonestly believe it was the only thin that saved my little girl's life. I don' mer there is anything better for Sum of Wild Strawberry Dr. Fowher's Extrac (aetured only by The T Milbu Co Limited, Toronto. Ont.

A A BSOREINE MIII roduce inflamed,swolienjolina

W.F. YOUNG, P. D.F., LDX Lvmans BIdac., Monireal, C.

Aberdeen-Angus Cattle $\frac{\text { females number ot }}{- \text { tor }}$ Glengow stock Farm, GEO. DAVIS \& SONS, Props. Alton, Ont. Aberdeen-Angus Cattle ${ }_{\text {and }}^{\text {Stock all }}$ agoes, ANDREW DINSMORE, Manater "Grape Granse" Farm, Clarksburi, Ont. ABERDEEN - ANGUS Will sell both sexes ; fair prices. Come and see
them before byying: WALIER HALL.
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Herd established 1855. fock
1848, have a special good dot ot
Shorthorns of either sex to offer
 JAMES DOUGLAS
Ontarie.
Caledonia, Maple Lodge Stock Farm 1854-19॥
 A. W. SMITH, Maple Lodge, Ont Shorthorns $\begin{aligned} & \text { Chonce selections of } \\ & \text { bulls and } \\ & \text { all }\end{aligned}$ very reasonable prices. Robert Nichoi $\&$ sons,
Halerersville, Ont. Scotch Shorthorns For Sale-Three bulls fit for service; two roan choice young Sootch
rom imp and

Fletcher's Shorthorns and Yorkshires GEO. D. FLETCMER.

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MILLION BRICKS on this one ob alone-because they make the locks right on the spot-save
freight and hauling-save time and hard work-and make more durable buildings that are absolutely fireproof. for itself on your farm-and pay can make a profit out of it by carning out concrete blocks for Write us
all particulars. catalogued and
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Scotch-bred SHORTHORNS
During the present month y. young bulls, ready for servvery reasonable prices. Also quality, at H. J. Davis, Woodstock, Ontario


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mexille. Shorthorns and Swine-Am now offering heilers, safe in calf, and some choocioe oung buws and tor
the fall trade; also Berkshire and Yorkshire pigs : ISRAEI GROFF. FImira, ont

The best Iaw-the golden r The best education-self-knowledge.
The best philosonhy The best war-to war against une, weakness.
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from a cloudy day The best telegraphy-flashing a ray of
sunshine into a gloomy heart. The best biography-the life that write
charity in the largest letters. The best engineering-building a bridge The bevt the river of death.
the lacerating rocks of percing clear of tion.
The The best mathematics - that whic
doubles the most foys and divides.

|  |
| :---: |
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Kill flies in such immense quantities as cannot be approached by any other fly killer



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\begin{aligned} & \text { Cargill, Ont. }\end{aligned}
$$\)

Shorthorns and Clydesdales
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WILLOWDALE STOCK FARM HAS NOW FOR SALE
Clydesdales, Shorthorns, Chester Swine, Shropshire Sheep Some extra good young bulls, descendants of Joy of Morning and Broad Scotch.

High - class $\begin{gathered}1 \text { have on hand young bulls } \\ \text { and heifers of highclass show }\end{gathered}$ SPRING VALLEY It you want
 SHORTHORNS $\begin{gathered}\text { food Short- } \\ \text { forn bill we }\end{gathered}$ Canadian-bred and imported. Females all them.
Ases.
Aso a few good YORKSHIRES boars and sows.


ELMHURST SCOTCH SHORTHORNS M. VANDERLIP, Importer and Breeder. Calnsvill d Breeder Calnsville, Ont , Langtord
Radial in sight of tarm, Bell
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The Manor" Scotch Shorthorns
OAKLAND
Our herd, numbering
 SHORTHORNS Prices moderate. 'Phone connection.
Brampton Jerseys $\begin{array}{ll}\text { Production and quality. } & \text { B. H. BULL \& SON, BRAMPTON, ONT }\end{array}$
 When Writing MentionAdvocate
 DON, ONT



Nervous Prostration Sleeplessness
Palpitation of the Heart Dizzy Spells

## MILBURN'S <br> HEART and NERVE PILL\&

Mr. Peter Halstad, Tilley, Alta., writes "I take great pleasure in writing a fel. Nerve Pills have done for me. I had long standing case of nervous prostration sleeplessness, palpitation of the heart and dizzy spells. I bought a box of the pills and they did me so much good sentinued their use until 1 had used health again. They are a great remedy and I recommend them to all my friends."
Miburn's Heart and Nerve Pills are 50 c. per box or 3 boxes for $\$ 1.25$ at all dealers, or will be mailed direct on eceipt of prioe by The T. Milburn Co imited, Toronto, Ont

## Chester Whites

Have a fine lot of young boar and sow pigs. SRB Longfellow, a well-known prizewinner. On both sire and dam side these pigs stand
tor QUALITY and PREPOTENCY.

Glen Athol Fruit Ranch DAVID SMITH, Mgr. Ct. Catharines, Ontario

Duroc-Jersey Swine

MAC CAMPBELL \& SONS, NORTHWOOD. ONT Hillcrest Tamworths
 SUNNSIDE CHESTER WHIIE HOGS -1 an
 Joe Cannon, at a Gridiron Club dinner,
said of a fammous millionaire : "He owes his success to his resourc
fulness. He turns every disaster int
victory com what did you do?'
.' I , ot a pail and milkecd her,' he
oied."


HE $\quad \mathrm{AKMER} \rightarrow \mathrm{AI} \mathrm{C}$ V() A I

## QUESTIONS AND ANSWERS

 MiscellaneousPURCHASE OF FARM.

your next issue if he was entitled to the

About Watermelons dllowed to grow? or is it better to pinch some off until the long will it be afte are ripe ? Ans. -1. Watermelon vines should no piphned off as those of muskmelons or
cucumbers. 1 It a vine is exceedingly lon
and slender, it induce branching on the vines soon after to thit thin set truit of the blossoms, boung truit than to ni
of the very often man
of the blossoms wail or the blossoms will not produce erruit
and it might be that only these were letit
thich as tar as truit in concerned of the vin
3. This depends on the variety, whethe early or late, and on the esason and kind
of soil on which the melons are grown Planted atter danger of trost is over, the
ruit slould mature in tho late summe

FALL PASTURE
 thing for fall pasture for milk cows
what would you adviso Ans.-It is now too late to sow Prof
Zavitz's annual bs. oats, 30 lbs . of Early Amber sugar
bine, and 7 lbs. of Red he cows are producing miller, and, a the milk.

$\qquad$ beter in dry, warm weather. It shous astablished. pastured until the plants becon sown with the dr
If about litree pecks per acre is required
and a light arowning when the blades
niperant and rom five to sixain inhes highe atids grow art
Care should be exercised when stock are irst placed on it, as otherwise there may
se danger of bloting on rich, moist soin,
uch as a fallow. It should produce con-
derable fall feed.
BAD Cough
a. horse six years old, weigh
which has a bad cough that
$\qquad$
$\qquad$
$\qquad$

and what
symptoms given indicate a
I.

 Newcastle Tamworths and Shorthorns
For sale: Choice young sows bred and ready to
Wor llowdall


MAPLE VILLA YORKSHIRES AND OXFORDS

 train. Oldest establisbed repistered herd din Cana
Chioc lot, 6 to 8 weeks old. Pairs furnished no
kin.

PINE GROVE BERKSHIRES
Maple Grove Yorkshires LLINCOLN LONG-WOOL SHEEP

| are equal to the best. | And Shorthorn |
| :---: | :---: |
| $\begin{aligned} & \text { sent offering } \\ & d \text { farrow fr } \\ & \text {-clis3, bred to } \end{aligned}$ | The Riby Grove Flock and Herd, owned by |
|  | MR. HENRY DUDDING |
| (e) | the source to which practically all |
| younger pigs of va | export buyers have resorted from time to time to |
| , |  |
| app | es. Selectio |
| S. McDIARM <br> Shedden Stat | Apply: THE OWNER, RIBY GROVE. STALLINGBOROUGH, GRIMSBY, ENGLAND |

Alloway LOdge $\begin{gathered}\text { southbowns Do you want a tinc-fited Southdown to win } \\ \text { out with the }\end{gathered}$ Stock
ing early. I gaurantee to pleas, and you youd wad an antage into your

|  | ANGUS - The first offering since tounding the herd. Bulls and |
| :---: | :---: |
|  |  |



JULY 27, 1911


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 rit hasas iliarge number of small sails without
of the whe wide. sall sails develop the full power
of Thio engine os os constructed that the gears
cat hat ball-barion turntable, and self-regulat.
in

 All
$\underset{\substack{\text { THE Hindsor, } \\ \text { Weller-aller col } \\ \text { Ontario. }}}{ }$
Make Your Own Tile


Farmer's Cement Tile Machine Co, Arkona Basket Factory cor Berry Boxes
 M. Everest, Prop., Arkona, Ont

MHE HARMER'S ADVOCATE


 now and then, it for no other reasonent than
oo remind us of the word truer then us than one the words that shat were
bread in the sweat of his tace."

 Grapevine," and "Turkeywing,"", Arter
Frrst came the reap
watching it cut watching it cut a few sheaves of wheat,
one coased to wonder that the cradle was
once haild once hailed as a great invention one on
of McCormick's first reapers, which ra
 Had one of these reaperar been there, it to oubtrul 14 anyone proent would have
understood the trick of raking. The next reaper, with a seat for the raker, allo
was absent.
 men stood and did the binding with
wisps of otraw caught trom the bundies.
These
 mons. Their hands did not work as
swittly as in days agone, and trequently
the drver had the driver had to pull the horsea to ad ad
halt
to
give the binders a a chance to catch up.
FItally a modern McCormick binder took up the work. As It quickly cut,
bound. and tores. bound, and tossed the sheaves to the
shockers, a cheer went up trom the crowd shockers, a cheer went up from the crowd,
and old Glory hanging naer, cuaght the
spirit and the suden stial stirn breaze, and spirit and the sudden stifif breeze, and
waved In trimumh.
The fail was an interesting implement, The fail was an Interesting implement,
and what, perhaps, was more interesting and what, perthaps, wase more Interesting,
was the differnt ways diferent farmers
used it. Many who tried and failed. used it. Many who tried and tailised,
complained that something was wrong Complained that something was wrong
with the flall.
It was too long, or too short, or this, or that, or the other,
There was nothing the matter with the
men.
oh, no. The singer is never oft
 key or out of time. No, no-lt's always
the prano or acompanit. To under-
stand just how far progress has travelied stand just how far progress has travelled
on the tarm, sea a fair and a threshing
machine standing side by side. machine standing side by side.
FFarmers trom
Statiferent tparts of the of the agricultural past. The collection

David Smith.

The enterpriso of Percheron breaders in in
developing the Canadian developing the Canadian feld is instanced
by the action of the Percheron Society of America in in inating spocial porizes oo
stallions and mares of tor
the bread at stallions and mares of the breed at no
less than thirteen Con less than thirten Canadian Exhbititions,
of which the majority are in the Westeri Provinces.
of which majity are in the Western
$\qquad$
 Whetene he hhould stick to it or try
job in town. Mr. Wallace intimates in reply that if the young man has not tho
taste tast or ability for farming, "ho might get lato a dopartment store, soll ribbons
andiece to young ladies, and learn to
smo and laces and young ladies, and learn to sweat and dress woll; but
mile and
the chancese are thet the living chances are that he will only make a
have much more.
Young men have come to town with only thelf mern
hands, and have succeoded beyond their oxpectationsj, but the malo ority of their
like the majo
clt city. lily from hand poople roared in the
sands of them tregret that they tho dild
$\qquad$
how to looz tall.
Here are hints for the woman who
Never under any clrcumstancos wear

Lou are wrong.
Let all your llines run up and down.
Do not wear a yoke of the square varloty.
Have
Preferably y libht tone of one materlal
Wear long gloves and carry a tall um
breilal
Hold
your chln up to lengthen yo
hroat line.
Carry your head stralght, never tulted to one side. The tilted head is for the
tall woman who wants to look short.

## "Last night my wifo a

 What was the subject of your dis-


## "COCKSHUTT" Plows are Made in a Plow Factory to Suit YOUR Needs

For thirty-five years we have made a specialty of manufacturing plows a specialty of manuracturing plows
of every description and including designs to meet the requirements of farm work no matter what the soil conditiens.

The izo different styles of Cockshutt plows will suit every soil condition.

Cockshutt plows are manufactured in a plow factory, not as a side line to other farm implements. The specializing, combined with high-grade materials and expert workmanship has given to "Cockshutt" plow a name that is known the world over for quality and reliability.


Cockshutt Foot Lift Sulky

As easy on the horses as an crdinary walking plow, this new Footlift Sulky has the added advantage of the special footlift attachment which enables any boy who can handle a team of horses to plow as well as the most experienced plowman can with a walking plow.

You can quickly change the bottoms from wide to narrow as desired. The hand levers are set to required width and depth on entering the field, width and depth on entering the field,
$g$ or lowering that is necessary to avoid obstructions is done altogether by means of footlift attachment


Heavy, sticky land requires a plow that is built to stand the extra heavy strain, and at the same time be as easy as possible on the team and the plowman. To meet just such requirements we have designed our No. 1r. The mould board is of special crucible steel, the share is of the best gray iron chilled very hard. The long handles give ease of control and aid greatly in keeping straight furrows, no matter how hard and sticky the soil. Equipped with rolling coulter if desired.


Everyone knows that you can turn a better furrow in light soil with a light plow than with a heavy one, and there is no excuse for asking your horses to pull any extra weight Although built as a light plow, no feature of strength has been ommitted in No. 6. There are the long handles for ease of control, the same hard chilled mould board, the extra tough share, and the same care in making and testing that have made the name "Cockshutt" the standard name in ploughs.

## Cockshutt Plows are Designed for Long Wear and Good Work with Least Strain on Horse and Driver

Unquestionably the most popular walking plow in Canada for general use. The extra leverage afforded by the long handles makes the plowman's work very easy.
The mould board and share are made of the same high quality materials as in our No. ${ }^{11}$, and the workmanship


Our catalogue is a safe guide from which any farmer can choose his implements and be sure after he has bought that he has the RIGHT implement for his work. There are more than 120 different plows, from the big is furrow engine gang to the light garden plow. Then there are cultivators, drag harrows, drills, disc harrows, pulverizers, corn planters, harrow carts, weeders, scrapers, in fact every implement that has any bearing on the proper tillage of the soil.
Send your name and address to-day for a copy. You will then be sure that you will have an implement as perfect as good materials and skill can make it.

## COCKSHUTT




[^0]:    the center and have ground work dark.

[^1]:    Melons for Breakrast.-PIace the melons
    (musk) on ice until thoroughty chilled.
    then cup open, take out the seeds, fill
    with finely-racked ice per proided you are
    sure tho
    ice dore the ice is pure- and serve. For
    desert at dinner the melons may be pre-
    pared the same way, but fill with ice cream.
    Blackberry Charlotte.-Make a boiled
    custard with eggs, it cup sugar, flavoring to taste.
    Line a arge glass dish with stices of Bponge cake dipped in sweat cream, then
    layer of sweetend blackberies, then
    another layer of cako and beries another layer of cake and berries as be-
    Tore, and so on until the dish is tull.
    When the euntard is cold When the custard is cold pour it over the
    whole; then beat the whites of the eggs to a stif troth, add cup sugar, and
    fanor to taste. Heap this on the top
    and deocnater English Cream.-Mix together well half
     turn to the fre and cook, stirring constantly untiil it thickens; then cook, stir-
    ring occasionally, for 11 minutes.
    Reat 2 eggs add \& cup sugar. and stir into
    the hot mixture. Stir until the egg looks cooked, then let cool and favor
    with vanilla, lemon, orange or coffee. Graham Bread.-Solten onethird cake
    of compressed yeast in tou lukewarm
    
     str in $2 f$ cups graham flour and 1 f cups
    white flour. Mix very thoroughy; the dough is not firm enough to knead. In
    the morning eut the dough through and
    through with a knife and turn it over
    and over Turn it into two buttered
    pans, make smooth with a knite, and let stand to become nearly doubled in bulk . about an hour.
    Is Your Child a Mohth Breather? By Charlote C. West, M, D, in Pictorial
    Perhaps the most comman of all condi-
    Hions in children that intertera enerindily with the health, are troubles of the noss
    and throat. The mother who lovingly presses her baby to her breast while in ite act of nursing, thus interfering with
    its breathing, does not realize that she may be laying the foundation for future
    distress to her child, which may affect it throughout its entire life.
    As everyone is aware, the nose is but partially developed at birth, assuming

    shape and form only with the eneral | shape and form only $\begin{array}{l}\text { with the general } \\ \text { growth of the booys. That portion of }\end{array}$ |
    | :--- | nose which we see is. the east of tit the

    most timportant part, the part with which most important part, the part with which
    we breathe, is inside, and is most intimately coneneted with the development of
    the brain, and, therefore, of intellicence the brain, and, therefore, of intelligence:
    with the aers, and consequently with our with ene ears, and consequenty with our
    sense of hearings with the proper torma-
    tion of the moth and tuse with tho tion of the mouth, and thus with the
    growth of the teeth, with the lunge and growth of the teeth; with the lungs, and,
    therefore, with a sufficient supply of Oxygen upon which life depends. So you
    see that just as "Big oaks from little
     ment of the entire body depend upon so
    apparently small a thing as an unobstructed breathing apparatus.
    In an infant, the nosal passages are ex-

