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# AGRICULTURAL REVIEW. 

MAY.

 treal on tho 1s, 15, 16, 17, and 18 Septomber-Horses-Cattle-Sheep-Swine-Poultry-Grain, Field Roots, and other farm products-Agricultural Implements-Rules and regulations-Entries-Transport of articles, placius them on exhibition, and charge of them whillo there-Steamboats-Railroads-Customs-Admission to tho grounds-Judges and their duties-The gencral superintendent-paying the premiums-Micella neous-Programme for the week.- Salitorial Department - Prospects of the Miontreal Provinctal Rx. hibition-Sis.0el) offered in premiums-The Agriculcural, Horticultural, and Industrisa departneents-Chạl lenke to the Upper Canada exhibitors-The grounds-The L. C. Apriculturist-Adivantares of riral lifeFarm Operations.-Tobacco culture in Commecticut-Preparation of the seod beds-Preparation of the ground-linsects injurious to the crop-Cultivation and hariesting-Averaze production-Experiments in potatno culturo-Prince Albert's farm.- Brceder's Department.-The trentment of bruises-Feed ing horses-The stable-Management of hacks-To cure kicking horses-Hints for butter making-Depth of milk-New was of making butter-Churning-Working butter-Washing butter.


RULES OE THE PROVINCIAL EXHIBITTON.

1. All entriez must be made on printed forms, which may be obtained of the Secretaries of Agricultural Societies, or of Meohanics' Institutes, free of charge. These forms are to be filled up and sigaed by the exhibitor, enclosing $\Omega$ dollar for membership, and sent to the Secretury of the Board of Agriculture, for Lower Canada, Mentreal previous to or on the folloring named dates :-
2. Horses, Cattle, Sheep, Swine, Poultry. Entries in these classes must be made, by forwarding the entry form, as above mentioned, filled up, and memher's subscription enclosed, on or before Saturday, August 15th, four weeks preceding the show.
3. In the classes of Blood Horses and pure bred cattle, full pedigrees, properly certified, must accompany the entry. No animals will be allowed to compete as pure bred, unless they possess regular Stud or Herd Book pedigrees, or satisfactory evidence bo produced that they are dirertly descended from such stock. In the class of Durham cattle particularly, no animal will be entered for competition, unless the pedigree of the same be first inserted in the English or American Herd Book, or in the Upper Canada Stock Register, kept at the office of the Board of Agriculture.
4. Grain, Field Roots, and other Farm Products, $\mathcal{A}_{\text {gricultural Implements, Muchinery, }}$ and articles generally, must be entered provious to or on Saturday, August 22, three weels preceding the show.
5. Exhibitors are particularly requested to take notice that it is essential that the entrios be made at the dates above mentioned. It is intended to prepare a Catalogue of a portion of the Exhibition. and this cannot be done unless the ontries are made intimo. Therefore after these dates for the respectire classes, no entry will be received. The entry paper and subscription money will be returned to any person forwarding them.
6. In the live stock classes, the entry must in every instance be made in the name of the bona fude owner; and unless this rule be observed no premium will be awarded, or if awarded will be withheld.
7. In all the other classes entries must be
made in the names of the producers or man ufacturers only.
8. In the Agricultural department the competition is open to exhibiors from any part of the world.
9. On the entig if each enimal or articie, a card will be furnished the exhibitor specifying the class, the section, and the number of the entry, which card must remain attached to such animal or article during the exibibition.

## Transport of Articles, placing them on Eshibition, and charge of them while there.

10. All articles for Exhibition must be on the grounds on Monday, September 22nd, except live stock: which must be there not later than Tuesday 23rd, at noon. Exhibitors of machinery and other heavy articles, nre requested to hare them on the grounds as far as possible during the week preceding the show.
11. Exhibitors must provide for the delipery of their articles upon the show ground.The Association cannot in any case make provision for their transportation, or bo subjected to sny expense therefor, either in their delivery at or return from the grounds; all the expenses connected therewith must be provided for by the exhibitors themselves.
12. Articles not accompanied by their owners may be addressed to the care of the Superintendent of the exhibition, who will receive them, on their being delivered at the grounds, but in no case will such articles be brought on the grounds and placed on exhibition, except by and at the expense of the owners or their authorized agents.
13. Exhibitors on arriring with their articles will apply to the superentendent of the grounds, who will be stationed within the entry gate, and will inform them where the articles are to be placed
14. Exhibitors will at all times give the necessary personal attention to whaterer they may have on exbibition, and at the close of the shom take cntire charge of the same.
15. No articles or rlock exhibited will be allowed to bo remored irom the grounds, till the

Close of the oxhibition;-upon the delivery of the Presidont's address, on Friday ifternoon under the penalty of losing the preminms.
16. Whilo the Diroctors will take overy possible precaution, under the circumstances, to ingure the gafety of articles sent to the oxhibition, yot they wish it to be distinetly understood that the owners must themselves tako the risk of exhibiting them; and that should any article bo accidentally injured, lost, or stolen, the Directors will give aill the assistance in their power torwards the recovery of tho same, but will not make any payment for the value thereof.

Steamboats, Railroads, Customs.
17. The Association will make arrangements with Steamboat and Railroad proprietors for carrying articles and passengers at. seduced rates.
18. Arrangements will be made with the Oustoms department for the free entry of articles for competition.

Admission to the Grounds.
19. Tickets from the Secretary's Office will be furnished each person becoming a member previous to or on Saturday, September 12th, which will admit himself only, free to every department of the exhibition, during the Show. Life members admitted free throughout the Exhibition.
20. No members' tickets will be issued after the above last mentioned Saturday evening, but those issued up to that time will be good up to tha close of the show.
21. Necessary attendants upon stock and articles belonging to exhibitors, will be fursished with admission tickets with their names written upon them, which ticket will be good at the Exhibitors' Gate only, during the show.
23. The admission fees to non-members, on Tuesday and Wednesday, will be half-a-dollar, and on Thursday and Friday, a quarter dollar, oach time of entering through the gates.
23. Tickets of admission to those who are not members, will be issued on and after Tuesday morning, at 25 cents each,--two such tickets to be given up at the gates each time of admission, on Tuesday and Wednesday, and one such ticket on Thursday and Friday, in accordance with the above rates. Ohildren under fourteen years of age, haif-price.

Juages and their dutios.
24. The judges wiil be appointed by the council of the Association previous to the Exhibition, and will receire a circular informing them of the fact and inviting them to act.
25. The judges are invited to report themselves at the Secretary's office, presenting their circular of appointment, immediately on their arrival at the grounds.
26. The judges will meet, at the committee room on the grounds, on Tuesday, September 15 th at 10 o'clock, A.s., to make arrangements for entering upon their duties, and will then be furnished with the committee books containing the numbers of the entries in each .class.
27, No person shall act as a judge in any class in which he may be an exhibiter.
28. In addition to the stated premiums offered for articles enumerated in the list, the judges will bave the power to award discre-
tionary promiums for such articles, not onumerated, as they may consider worthy, and the Directors will dotermine the smount of premium.
29. In the absence of competition in any of the Classes, or if the Stock or articles exhibited be of inferior quality, the judges will oxercise their discretion as to whether they will award the first, second, or any premium.
30. Each award must be written in a plain careful manner, on the blank page opposite the number of the ontry; and the reasons for the award should be stated when convenient.
31. No person will be allowed to interfere with the judges while in the discharge of their dutios. Exhibiters so interfering will forfeit their right: to any premium to which they might otherwise be entitled.

The Goneral Buporintandent.
32. A General Superintendent will be appointed, who will hare the ontire supervision of the grounds and the arrangements of the Exhibition. He will have an office upon the ground, where all persons, having inquiries to make in relation to the arrangments, will apply.

Paying the Premiums.
33. The Treasurer will be prepared to commence paying the premiums on Saturdsy, Sept. 19th, at 9 a. $m$., and parties who shall have prizes amarded them are particularly requested to apply for them before leaving Montreal or leave a written order with some person to receive them, stating the arcicles for which prizes are claimed.
34. Persons entitled to cash premiums must apply for them at the Secretary's office, who will give Orders on the Treasurer for the amoust.
35. These orders must be endorsed, as they will be payable to order, not to bearer, and on presentation to the Treasurer, properly ondorsed, will be paid, either in cash, or by cheque on the Bank.
36. Orders for premiums not applied for on Saturday, as above, will be given by the Secretary, and the amount forwarded by the Treasurer, on receipt of proper instructions.

## Misallaneous.

37. Provender will be provided by the Board for live stock at cost price. For information, exhibiters will apply to the Suporinteadent of the grain and fodder department at his office.
38. An auctioneer will be on the ground after the premiams are announced, for the purpose of selling any animal or article which the owner.may wish to dispose of, and every facility will be afforded for the transaction of business.
-39. In case the Directors shall require any particular information in reference to animsls or articles taking first prizes, the owners will be expected to transmit $\mathrm{i}_{\text {, }}$, when requested to do so.

> Programme for the Weot.

1. Monday, Sept. 14th, will be devoted to the final receiving of articles for exhibition, and their proper arrangement. None butofficers.
judgos, exhibiters, and necessary attendents will be admitted.
2. Tuesday, 15th. The judges will moet in the Committee Room at 10 A. K., and will commence their duties as soon as possible afterwards. As soon as they bave mado their awards, they will report to tho Secretary, and Fill then bo furnishod with the prico tickets, Which they are requested to place on the proper articles before disporsing. Non-members admitted this day on payment of 50 cents each time.
3. Wednesday, 16 th . The judges of the various classes will complete their awards, and Fill place all of the prize tickets if possible. Admission this day the same as yesterday.
4. Thursday, 17th. All the remaining prize tickets not yet distributed by the judges will be placed upon the proper articles this morning, before $90^{\circ}$ clock, if possible. The pablic
will be admitted this day on payment of 28 conts by each porson, each time of entering. The amatour bands of music in competition for prizes will play upon the grounds.
5. Fridey, 18th. Tho annual meeting of the Directors of the Association will take place at 10 a.m., in the Committee Room. Tho bands will continue to play upon the grounds. The President will deliver the Annual Address at 2. p.u., after which the Exhibition will be considered officially closed, and exbibiters may commence to take array their property. Admission to-day the bame as yesterday.
6. Saturday, 19th. The Treasurer will commence paying the premiums at 9. A.u. Exhibiters will remove all their property irom the grounds and buildings. Tho gates will be kept closed as long as nocessary, and none will be admitted except those who can show that they have business to attend to.

## 1st DIVISION-STOCK.

Mrdals.-In all cases the finner of a frst prize of $\$ 40$ will be entitled to the Association's Gold सedal, value $\$ 40$, instead, if he prefer it: and the winner of the list prize of $\$ 20$, or upwards will be entitled to the Silver Med $4 l$, at $\$ 10$, if he prefer it, with the difference in money.

> 1st SUBDIVIBIOM-HORSES.
> 1st Class-Heary Draught \#orsea.

| Ssot. Prizss 1st | 2nd | 3rd | Sect. Prizeb 1st | 2nd | 2 da |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 Heavy draughtstallion $1300 \$ 40$ | 25 | 12 | 6 Three years old fllly....... \$18 | 11 | 6 |
| 2 Three jears old stallion.... 22 | 14 | 7 | I Two years old filly....... . 14 | 9 |  |
| 3 Two years old stallion. . . . 14 | 10 | 4 | 8 Yearling filly............. 8 | 6 | 4 |
| 4 Yearling colt............ 8 | 6 |  | 9 Span of draught horses wei- |  |  |
| 5 Brood mare and foal 1200 lbs 22 | 14 | 6 | ghing over 1300 lbs....... 20 | 15 | 10 |
| 2nd Clsso-Agricaltural Horses. <br> Prizes the same as in Class 1st. <br> Ath Class-BIood Horses. <br> Prizes the same as in Class lst. |  |  | Srd Class-Road or Carriage Eorses. Prizes the same as in Class lst. |  |  |
|  |  |  | 10 Single carriage horse...... 8 | 6 | 4 |
|  |  |  | 11 Saddle horse.............. 8 | 6 | 4 |
| Horses ghawn as single carriage horses, mast not be stallions. |  |  | dle horses, or as spans of team | carri |  |

## 2nd SUDBIVIBION-CATTLE

Ist Class-Durhsm.

| Seot. Prizes 1st | nd | 3rd | 教 | Seor. Prizes 1st | nd | 3 rd |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 Bull 4 years old and upwds. $\$ 36$ | 24 | 16 | 8 | 6 Cow 4 years and upwards. $\$ 20$ | 12 | 8 | 4 |
| 2 Three years old bull...... 32 | 20 | 12 | 6 | 7 Three years old cow. . . . . . 16 | 10 | 6 | 4 |
| 3 Two years old bull....... 24 | 16 | 9 | 5 | 8 T\%o years old heifer...... 12 | 8 | 5 |  |
| 4 One year old bull.. . . . . . . 20 | 12 | 8 | 4 | 9 One year old heifer....... 10 | 6 | 4 | 2 |
| 5 Bull calf (under 1 jear)... 16 | 10 | O | 3 | 10 Heifer calf (under 1 year). 6 |  | 2 | 1 |

N. B.-A cartificate of Herd Book Pedigrer, or a sufficient Reference to the Herd Book in Which they are registered, will be required of all saimals in the Durham class, along with or previous to the application to enter them for exhibition. The pedigrees of others should be as full and correct as possible.
and Class-Herefords.
Prizes the same as in Class 1st.
3rd. Class-Dovong. Prizes the same as in Class lst.

4th Class-Ayrshires.
Prizes the same bs in Class 1st.
6th Clan-Calloway, or Aberdoon Cattle.
Prizes the same as in Class 1st.

6th Class-Grade Catile.
Prizes the same as in Class 1st.
7th Claxs-Fat and Working Cattle, eny Braed.

| Seot. Prizys lst | 2nd | 3rd | Scot. Priess 1st | 2nd | 3rd |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 Fat ox or Steer. . . . . . . . . . $\$ 330$ | 20 | 12 | 4 Yoke of working exen...... 20 | 12 | 8 |
| 2 Frit cow or heifer........... 40 | 20 | 12 | 5 Team of oxen, not less than |  |  |
| 3 Yoke 3 years old steers..... 16 ' | 10 | - | ten from one Township.... 30 | 0 | 0 |

Tho Judgos shall ascertain, in deciding on bull calves in any of tho forogoing classos, whothe tho animal Has boon suckled or raisod by pail, and nako allotrances acoordingly. -Tho exact agh of young animals mustibo atated on. this cards, and will be taken into consideration by the Judges in making their aivards; and any porson understatidg the age of an animal will forfeit tho premium to whioh he might othertwise be entitled.
'Young cattle may compete, if the exhibitor thinks it, in an older cless than shiat to which they properly belong ; but no animal will bo allowed to compote in more than one of the forcgoing sectinns, excopt for the Modals, or where all classes and ages competo together, or in the herds. Cover in any of tho above closses must be giving milk at the time of the exhibition, or bie ovidently woll gono in calf.

An animal vill not bo allowed to competo as a three year old cow unless she has had a oalf, or is ovidently in calf, but a tro year old animal having had a calf will be allowed to compete as.two year old heifer, if the owner thinks fit:

Prizes will ba awaided to animals of other breeds than those above montioned, if deemed worthy. Fat Oattle and fat Sheop can be exhibited only by persons who have owned and fed them a! least six months proviously.

## 4th SUBDIVIBION-SHESEP.



4th SUBDIVISTON-SVJNE.
1st Class-Yorkehires, Large Breed.


2nd Mass-Iarge Berabhires.
Prizes the same as in Olass Ist.
8rd Class-All other Large Breeds. Prizes the same as in Class lst.

3th Clas-Suffolks, Small Breed.
Prizes the same as in Olass 1st.
5th Glass-Improved Berkshires.
Prizes the same as in Class 1st.

6th Ciass-All other Small Breods.
Prizes the same as in Class 1st.
In the classes of Pigs, the precise age of the animal is to be stated on ine cerds.
With a view of oncouraging largely the importation of improved stock, the exbibitor of any maie animal imported into this Proyince from Europe since the last Exhibition, Which shall take the first prize in any of the above classes, vill be paid three times the amount of the premium offered in the list; the exhibiter of any femsle animal imported from Earope within the same time, taking the first prize, will be paid double the amount offered; the exbibitor of any male animal imported into the Province from any part of America within the same time, taking the first prize, will be paid double the amount of prize offered; and of any female animal imported within the same time, and taking the first prize, one-half addition to the amount of prize offored in the list. Such animal to be the bona fide property of persons residing in Lower Oanada. Satisfactory cridence must have been given at the time of making the entry that the animal has been imported within the time named, or the increased prize will not be paid.

## Oth SUBDIVIBION-Poultry, 80.



2nd DIVISION-AGRICULTURAL PRODUCIIONS.
rot-Class-Grains, scede, \&c.

| Ster. | Prizes 1st | 2nd |  | Srot. Prizes |  | 2nd | , |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 White winter wheat. | \$6 | 6 | 2 | 18 Alsike clover | $\$ 6$ | 4 |  |
| 2 Red winter wheat. | 6 | 4 | 2 | 18 Hemp seed. . . . . | 6 | 4 |  |
| 3 Whito spring wh | 6 | 4 | 2 | 20 Flax seed. | 6 | 4 |  |
| 4 Red spring wheat | 6 | 4 | 2 | 21 Mustard seed. | 6 | 4 |  |
| 5 Barley (two rowe | 6 | 4 | 2 | 22 Swedish turnip seed, ( 20 lbs .) | 6 | 4 | ) 2 |
| 6 Barley (6 sowed. | 6 | 4 | 2 | 2314 lbs. white Belgian field |  |  |  |
| 7 Rye. | 6 | 4 | 2 | carrot seed.. | 6 | 4 |  |
| 8 Oats, white | 6 | 4 | 2 | 2412 lbs long and mangel wur- |  |  |  |
| 9 Oats, blac | 6 | 4 | 2 | zel seed | 6 | $\frac{1}{4}$ |  |
| 10 Field peas. | 6 | 4 | 2 | 2512 lbs . yeilow globe mangel |  |  |  |
| 11 Marrowfat | 6 | 4 | 2 | wurzel seed............... | 6 | 4 |  |
| 12 Tares.. | 6 | 4 | 2 | 26 Bale of hops, $112 \mathrm{lbs} .$. | 20 | 12 |  |
| 13 White field beans | 6 | 4 | 2 | 27 Horse.... | 6 | 4 |  |
| 14 Indian corn in the | , white. 6 | 4 | 2 | 28 Buckwheat | 6 | 4 |  |
| 15 do. do | yellow 6 | 4 | 2 | 29 Nillet. | 6 | 4 |  |
| 16 Tirnothy seed. | , 6 | 4 | . 2 | 30 Hungarian grass seed....... | 6 | 4 |  |
| 17 Olover seed.. |  |  |  |  |  |  |  |

2nd Class-Roots and other Field Crops.

| Sror. | Prizes 1st | 2nd | 3rd | Sect. Prines lst | 2nd | 3rd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 Pink-eyed po | ....... \$3 | 2 | 1 | 14 Mangel wurzel, long red (12) \$3 | 2 | + |
| 2 Oup potatoes | 3 | 2 | 1 | 15 Red globe mangel wurzel (12) 3 | 2 | 1 |
| 3 Garnet Chilis | 3 | 2 | 1 | 16 Yollow globe man. Wur. (12) 3 | 2 | 1 |
| 4 White potatoe | 3 | 2 | 1 | 17 Long yellow man. wur. (12) 3 | 2 | 1 |
| 5 Red potatoes | 3 | 2 | 1 | 18 Khol rabi (12).............. 3 | 2 | 1 |
| 6 Blue potatnes. | 3 | 2 | 1 | 19 Sugar beet (12)... . . . . . . . . 3 | 2 | 1 |
| 7 Any other sort | 3 | 3 | 1 | 20 Parsnips (20)..... . . . . . . . 3 | 2 | 1 |
| 8 Collection of fie | 3 | 2 | 1 | 21 Large squashes for cattle (2) 3 | 2 | 1 |
| 3 Swede turnips | 3 | 2 | 1 | . 22 Mammoth field pumpkins (2) 3 | 2 | 1 |
| 10 White globe turnip | 3 | , | 1 | 23 Tobacco leaf (20 lbs.)....... 3 | 2 | 1 |
| 11 Absrdeen yellow tu | ips.... 3 | 2 |  | 24 Broom corn brush (28 lbs.).. 3 | 2 | 1 |
| 12 Twenty roots red ca | ts.... 3 | 2 | 1 | 25 Flax, suatched (112 lbs.).... 24 | 16 | 62 |
| 13 Twenty roots white c | rrots. 3 | 2 |  | 26. Hemp (112 lbs.)........... 24 | 16 | 8 |

[The roots in the above class to be certified as of field culture by the Exhibiter.] Roots of other varieties than those above named will receive prizes if worthy. The names of the different varieties of wheat or other ,grain, roots, \&c., must be inserted by such exhibitor in his list of entries.

| 3rd Class-Dairy Products, \&c. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stot. Prizes 1st | 2rid |  | 4th | Sect. | Prizeitisit | 2nd | 3rd |
| 1 Kegs of butter, $56 \mathrm{lbs} \ldots .$. \$ 12 | 10 | 8 | 6 | 5 Honey, in the comb, | 101bs.. \$3: | 2 | 1 |
| 2 Firkins of Butter, 28 lbs... 8 | 6 | 4 | 2 | 6 Jar of clear honey. | . -4 | 2 | 1 |
| 3 Oheese, $30 \mathrm{lbs..........}$. | 8 | 6 | 4 | 7 Maple sugar, 30 lbs. | . 3 | 2 | 1 |
| 4 Tro stilton cheeses, 14 lbs .10 | 8 | 6 | 4 | 8 Ham, cured | 3 | 2 | 1 |

Persons taking premiums on dairy products will be required to faraish statementa of the mode of manatacture, including the breed and number of cows, size of farm, description of dairy premises, treatment of milk, salt used, quantity of produce, and any otherprictical information that they may be able to afford, before being paid the amount of premium.



## Srd Olass-Implementa for Larvesting.

| Sros. Pajzes lst | 2n | 3rd |  | Paizss 1st 2nd |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 Grain sowing machine.. . . . $\$ 12$ | 8 | 4 | 8 Collection of he | plements.... \$4 | 2. |
| 2 Beat and carrot sow. do. 4 | 2 | 0 | 9 Horse tedder.. | ............ 8 | 4 |
| 3 Grass seed sowing do.... 4 | 2 | 0 | 10 Horse rakes | 8 | 4 |
| 4 Oompost sowing . Uo.... 4 | 2 | 0 | 11 Potatoe digg | 8 | 4. |
| 5 Mowers. . . . . . . . . . . . . . . . . 20 | 12 | 8 | 12 Waggons | 8 | 4 |
| 6 Reapers..................... 30 | 12 | 8 | 13 Scotch carts. | 8 | 4 |
| 7 ksowing \& reaping combined. 20 | 12 | 8 | 14 Carts........ | . 8 | 4. |

## \&th Class-Impiemonta for the proparation of Agrioultural produots.



5th Class-Other Implements not mentioned above.
Seot.
Prizes 1st 2nd/Srot.
Prizes 1st 2nd 3rd
1 Stump extractor. . . . . . . . . . . . . . . $\$ 8$ 4 3 Bee-hives............................ \$4 2
2 Gates............................... 4 2 4 Weighing machines.................. \& $\frac{4}{4}$
Binsia.-Prizes offered for instrumental Bands:-For the Best Canadian AmateurBand, consisting of not less than eight performers, of whomthere shall not be m than two profes$80_{n a l}$ srtists. $\$ 604020$.

Each Band will be required to execute the following pieces of music, viz:-The National Anthem; Rule Britania; a quick Step; Waltz; Song; Polka; Set of Quadrilles, and a Medley, or Operatic Piece; and to be on the grounds under the direction of the Committee during the continuance of the Exhibition. Apply to the secretary of the Board at Montreal.

## EDITORIAL DEPARTMENT.

THE MONTREAL PROVITCIAE EXEIBITION.
We have much pleasure in publishing at this early period of the year the Prize list of the coming exhibition to be held in Montreal on the $14,15,16,17$ and 18 th Septembernext. The success of these great gatterings of our industrial productions depond to a rery great extent on the diffusing throughout the province of proper information as regard the time and place of the exhibition together with the amount of prizes offered. With the view of securing prompt action in every department connected with the exhibition it has been decided that three great divisions should be adopted as to the organization of the Agricultural, Industrial, and Horticultural Departments-each being respectively under the special control of the Board of Agriculture, of the Board of Arts, and of the Montreal Horticultural Society. Each is to publish its own prize list and manage the details coming under its own department. Thus
the Board of Arts will publish their own prize list and 80 will the Montreal Horticultural Society. For general arrangements only will the united control of every department be requisite.

We now publish the Agricultural prize list, and we have reason to believe the industrial: and Horticultural prize lists will soon follow. Some $\$ 12,000$ will be offered for prizes and wecan fairly anticipate that this provincial exhibition will prove the largest and most successful gathering which ever took place in the whole Province. The provincial exhibition of Upper Canada takes place this jear at Kingston the week following so that we are in hepes that several of the leading western exhibitions will favor Montreal with their presence, before going to Kingston. Indeed, we have personally the promise of several of the leading farmers of Upper Canada, that they will compete at Montreal this year, and test their superiurity over the Lower Canada traders. With this view the

Board of Agriculturo havo adopted tho Upper Canada Prize List and Regulations so as to afford them every inducement to join in the Montreal comirg exhibition. So that every Frestern farmor might send a duplicate of his entries to the Lowor Oanada Board of Agriculture, with the assurance that ho has a right to compote for the amount offered for prizea.

The industrial Yalace is left to the industrial department, but splondid grouuds have been selocted in its vicinity, where the agricultural departmont will be provided with overy requisite.

## DISADVANTAGES OF EURAL LIFE.

It has become very much tho iashion for the apeakers at our country fairs, and writers in agricultural papers, to congratulate the farmer on his enviable position as a tiller of the soil, holding daily communion with Nature, breathing the free mild air of hearen, with cheerful exercise and occupation, contentment, \&c. Now, cant is always disgusting; and it strikes me that there has, of late, been not a little of it concering country life ; and as the Rural is open to discussions upon all subjects, I have a word to asy on this, which, if not quite as flattering as much that we hear and read, may at least have tho merit of being equally true.

Every one who knows anything about farming knows that it is very hard and very dirty pork. I am awars that it is exceedingly delightful to sit in the sbade of some thick branching, wide-spreading tree, on a lovely July day, and watch the mowers at Frork in a luxuriant meadow. How lije play it looks; how beautifully the tall grass comes down, rank after rank; what musicin every swing of the scythe, as it rushes in and out the mimic forest; and then the delicious fragrance which floats upon the air,-verily, there is no perfumery equal to the breath of new-mown hay! That is the poetry of the thing. But come out of your leafy retreat, take the scythe in your own hands, bend your back to the required angle, and keep it so bent, hour after hour, through the whole day, with the sun (which you thought. Was shining just right, as you sat in the shade, ) beating upon you, and not a breath of air stiring. That, I am inclined to think you will conclude, is plain prose.
I do not, by any means, wish to be understood as speaking of work with contempt, for I know that everything worth having must be toiled for, and often the highest good comes only by the hardest labor. And, moreover, there is a Fast deal to be done in the economy of life, which is very dirty and disagreeable, and no one is less a man or woman because it chances to fall to his or her lot to do it. But what I do maintain is, that it is always better to have a correct and definite understanding of our position and circumstances; whatever is peculiar or disagreeable therein, for it is only thus that we cen apply ourselves intelligently and effectually to overcome what can be overcome, or "making a truce with necessity" bear courageously What must be borne, and so get from life all good that the Creator, in bestowing it, designed it should yield us.

I have observed that those of our farmers

Who are most thoroughly imbued with tho idea that their condition is the most enviable to which mortal ever need aspire, and who look upon "corn and pumpkins plenty" as the sum and substance of human folicity, are usually the most ignorant, undesirable part of community, almost invariably pro-slaveryites of the straitest seot, thoroughly rooted and grounded in the faith that the negro is only an animal, and that the salvation of this nation in particular, and the world in genoral, depends upon his being kept in bondage. Enter the home of one of this class, and make yourself familiar with the spirit that prevades it, and I think it will not require a very long sojourn therein to conFince you that the condition of his pigs is far preferable to his children, in so fer ar respects facilities for attaining the highest end of their existence. Now I grant this may sound a little extravagant, yet I think that no one who has had an opportunity for observation will deng that the tendency amoung our rural population, and especially in districts remote from large towns, is to subside into a short of half-animal cxistence, and it is only by constant watchfulness and effort that this tendency is counteracted. I beliere no intelligent farmer who has ever been a dozen miles from home, mingled among men of other callings, and observed the quickening and sharpening effect of censtant intorcourse with others in the why of buisness or pleasure, but has felt with a sigh that he, too, is "a man of whom more might have been made."
There are scattered here and there all over the country, men, who in their boyhood had longed for a more satisfying life, a higher cultivation, but who, from various causes,-perhaps by reason of the burden of debt resting upon the homestead, which his strong arm must help to lighten, or from paterna? unvillingness to givehim a start in another direction; or what so many have longed for in vain, even permission to go out and work his way alone. I say there are many such, and noble men they are, too, many of them, who have quietly given up all their hopes, and set themselves heroically to do their best in the lot which seemed to be marked out for them. For I hold it to be the highest heroism for one to reconcile himself to, and work heartily and cheerfully in a calling into which he may have been forced against his will.
But, Mr. Editor, this is an extensive subject, and as I fear I have already trespassed too far, reserve for another letter a few more things that I have in mind concerning the disadvantages of rural life.
F. M. G AX .

## THE LOWER CANADA AGRICULIURIST.

We have delayed the publication of the Agriculturist so as to include the Prizo list. We Fould again ask of our subscribers to formard as soon as possible the amount of their subscriptions, and inform them that not a single number of the Agriculturist will be addressed after the 1st of September, without being prepaid. We would also ask of the postmasiers to return the numbers of the Agriculturist not called fors snd now in their possession. We have but fey of the back numbers, and not enough to meet the demand.

## FARM OPERATIONS.

## 2OBACCO CULTUBE IN CONNECTICUT.

## Proparation of the Sood Bed.

Wo havo gonerally propared the sced bed in the fall, by heary manuring, ploughing in deop, and loaving tho bed in a rough state till tho following spring. $\Lambda$ s soon as the frost is out of the ground, spade the bed over, for the purpose of bringing the manure to the surface and, thoroughly mixing with the soil at the samo time clearing out all roots of weeds and grass.
Aflor levilling the bed we make the soil as compact os possiblo, either by rolling with a heavy roller or tramping with the feet. Wo then rake the surface lightly with a fine tooth garden rake, and soiv the sced, raking lightly to cover it, and then roll or tramp it again.
The seed is so very small, being smaller than mustard seed, that it is better to mir it with dry muck or ashes before sowing, as it is more svenly distributed on the bed. We sow about as thickly as in sowing cabbarge seed in the garden. The bed is treated precisely as a bod in the gerden, in weeding, \&c.
-When the plants have three or four leaves, which should bo about the middle of May, on a raing day we sow on about 2 quarts of fine guano per square sod, being particular to sow on the guano while it rains, Eor if the sun comes out soon after it is sown, there is danger of burning the leaves.

Preparation of the Ground.
In preparing the ground for setting out the plants, we think it best to harrow in the manure, which should be fine compost. We use from 40 to 60 ox-cart loads per acre-(the ox cart load is about 35 bushels).
We use Shears' Coulter harrow for the purpose of thoroughly ineorporating the manure with the soil.
The land boing manured and well harrowed, we set the teeth of our marker $3 \frac{1}{2}$ feet apart, and mark it out one way. We then'raise a ridge about 6 inches high, by turning two furrows together with a. one horse plow. The ridges being made, we mark across them making the marks $2 \frac{1}{2}$ feet apart.

We generally have used some spocial manure for the parpose of giving the plant a start. We have trisd Peruvian gasno, about 300 to 600 pounds per acre; castor pomace, from 300 to 2,000 per acre and the Lodi Companies poudreet 2 to 4 barels per acre.

The guano and castor pomace it is necesary to sow on the marks, or in a furrow mad e for the purpose, before making the ridges (thus being directly oror the guario or pomapa) as an large so quentity placed in the hills wound destroy the plant.

We like the poudrect best, as me can place that in the hills without injury to the plant.

We also think the poudrette gives the best topacco. .

We make the hills at each intersection of the marke, with a hoo, spatting them lightly, thius making the hille $3 \frac{1}{2}$ by $2 \frac{1}{\text { feet, }}$

We set the plants from the 5 th to tho 15 th
of June, olvoosing, if possible, a rainy or damp day for the the purpose though 1 havo zeen very handsome crops raised set as late as July.

Insecte Injarious to the Crop.
Some years wo have been greally troubled by cut worms, for which reason we havo beon in the labit of plowing in a green crop, either hay or clovor, which feeds tho worms. and consequently they do not cat the tobacco so bad$1 y$.

The cut worm usually finishes its work of destruction by July 4th, up to which time, when a a rainy day comes all hands turn and sot over the plante missing.

The green, or tobacco worm proper, commences operating about July lst. We often find the eggs (of the miller, which produce the worm) on the under side of tho leaf; they aro about the size of a large pin's head, and a light pea color. The miller flies by night, and is rarely seen. I have never seen but two in the years we have raised tobacco. The head looks very much like an owl's; the body is grey in in color, about id inches long and the wingg, When spread, extended about 3 inches from tip to tip. The green worm is a congtant source of anoyance from its first appearance until the tobacco is cut. We sometimes have to go over the ground every day for Forms, though in some seasons once s week will suffice.

Cultivation, HIErvesting,
The tobacco will not grow much until it is hoed, as the ground becomes hard and must be well stirred to give the root a chance to start. We use Nourse, Mason \& Co's horso hoe for cultivation between the rows. There is an advantage in setting the plancs on a ridge, for they are not so apt to be covered with dirt by the horse hoe, or by a heavy shower. We generally hoe as we can, but rarely more than three times, unless the ground is very weedy, which should not be the case in good farming.

The cosi of production varies greatly with the seasons as when we have a dry season we have to water the plants and cover them with a little cot, to prevent the sun from scorching them. The past season was very favorable, there having been so mnch damp weather about setting time that we did not cover or water a plant on 45 acres.

After the tobacco is set the labor is about double what it is on corn. I have never mado an exact calculation of the expense of raising tobacco'; but for myself I can- bay I would rather take care of an acre of tobacco then two acres of corn. 'The land which will produce 2,000 pounds per acre of tobacco, will not produce over 70 bushels of shelled corn, which shows a large difference in favour of the tobacco.

About the middle of August the tobacco.is in blossom. We then go over the field and broak off the topg, taking off about 4 or 6 lesves; with thentip, according to the size of the plant.

In about a week a sucker starts at the junction of each leaf rith the stalk. These must
bo takon off beforo cutting, as if left on, it is very inconvoniont to handle the tobacco.

Wo gonorally bogin cutting nbout tho 10 th of Soptember, for by that time most of it is ripo, and if it stands after it is fully ripe, and it will ofien rust. The rust is in spots on the leaf, and injures the quality.

Wo commence cutting in the morning after the desp is onf, and let it lay for a while to wilt, being careful not to lot it lay long onough to got sunburnt. After being wilted enough to handle without breaking the leavos, it is placed in a cart or wagon and drawn to the curing house, which is generally a shed or rough building, which may be shut up close or opened to lot in air. The best buildings are about 24 or 36 feet wide, and ns long as convenience may dictate- 36 feet allowing of three 12 feet rails across the building. Wo hang from 26 to 47 plants on a rail, according to size.

The butt of the stalk is placed against the rail and the tivine passed around it, the twine being on top of the rail between every two plants, as they aro placed on alternate sides. The rails are ajout 20 inches apart, allowing room for a good circulation of air, which is absolutely necessary, as without it the tobacco will sweat on the poles, and is lost.

In about six weeks or two months the tobacco is sufficiently cured to strip. Af.er it is well cured the first damp day we open every door and wiudow to let in the air, for it is Lenengariv to have it damp to keep it from breaking.

When it is taken from the poles it is placed in a pile, a double tier, the tips lapping about 6 inches or 1 foot, butts evenly laid and closepacked to prevent drying.

If not damp, it may lay so for several days without injury, but it requires close watching to prevent it from heating. We divide it after stripping into three kinds. called wrappers, seconds and fillers. The wrappers are the chociest leaves, the seconds have many imperfect leaves and bring about half the price of wrappers, the fillers are the poorest lcaves and bring about one-third the price of wrappers. When the leaves are put together and a leaf coiled around the butts which makes a hand. As a general thing the more particluar, in assorting, the better price we get. I have seen a really nice lot of tobacco sold for a small price for want of care in assorting.

I think we have averaged 15 cents a pound for wrappers, 71 cents for seconds, and 5 cents for fillers during the seven years we raised tobacco, and the weight would average 1,500 pounds per cere,though we have raised 2,200 pounds on one acre, and sold it for 20 cents per pound for the first quality.

In such a yield as the above there would not be over $3<0$ pounds the first and second qualities both together. After stripping, it is ovenly packed in piles,(keeping the varions qualities separste, of course, butts out and tips lapping a very little, three or four inches perhaps. W.e do not case it, but sell to dealers who do. The case is made of merchantable soft pine boards, and is about $3!$ feet
long by $\$ 1$ wide and $2 z$ doop. About 400 lbs . of tobacepo are put in each case, by means of a scrow. In a few days after casing, the sweating process commences. During some stages a person not acquainted with it, wors ho to exmmine the tobncco, would say it was worthloss, being perfectly softand apparently rotion. I have often scen the outside of the caso so hot as to draw the pitch from knots in the boards.
The tobacco must go through this process before it is manufactured, to give it the necessary finish. This. year we shall probably get $a$ higher price than ever before. I . have already heard of 25 cents per pound being offered for all three qualities.

I believo there is, comparatavely spealing but littlo tobacco raised in the state, out of Ha tford county; the Doin clicut river and Farmington valleys being particularly adaptod to its production.

Join C. Roberts.

## EXPERIMENTS IN POTATO CULTURE.

In the cultivation of potatoes, a point which it is desirablo to ascortain, is at what distance they should be planted to insure the greatest yield or tho greatest quantity of marketable potatoes. In reference to this point, it appears that the Maine Board of agriculture, at its session last winter, passed a resolution in regard to experiments which the members pledged themselves to make, the substance of the resolution being as foliows:
"Select a piece of land, of as uniform quality as may be ; manure the whole equally; divide the piece into four equal lots; lay out the whole in rows three feet apart; plant the first lot in bills three feet apart in the rows. Plant the second lot in hills two feet apart; the third lot in hills one and a half feet; and the fourth lot in hills one foot apart in the rows.'

The Maine Farmer publishes the results of experiments made by Mr. Rogers, member of the Board for the county of Sagadhoc. The experiments seem to lunve heen fairly conducted as far as they went. There are, however, one or two important peints involved in the trials, on which we have no definite information: as, first, Was the quantity of potatoes planted, the same per acre, in all cases. Second, if there was a difference in the quantity planted, was that difference taken into account in the return? It is obvious that if the same weight in bulk was planted per hill in all cases, it would require bet one-third as many potatoes per acre where the hills were tbree feet apart. This rould make a difference in the cost of the crop of no trifling importance, zeckoning potatoes at the price thes usually bring at planting-time.
But the results reported by Mr. Ragers are nevertbiless interesting, and comprise points of value. They are summed up by the Farmer as follows:-
$\left.\begin{array}{ccc}\begin{array}{c}\text { Merchantable. }\end{array} & \begin{array}{c}\text { Bushel3 of } \\ \text { small. }\end{array} & \begin{array}{c}\text { Total No. } \\ \text { of bush. }\end{array} \\ \text { No. } 1 \text { producad.....3i }\end{array}\right]$
 or Jenny Lind potatoes on a sandy soil, without manure, with the following result:-


- From the above experiments it appeare shat in the first instance the largest number of bushels raised was from the lot planted one foot between the hills, although the lot which gave the largest number of good size, marketable potatoes was No. 2, or from hills two feet apart in the rows. From the second ezperiment we gather regults of nearly the same kind, although the greatest yield in this instance is from the lot planted two feetapart in the rows, while the largest amount of saleable or good yield potatoes was obtained from lot No. 3, or that planted one and a half feet apart in the rows. The fgures of the first experiment also show that while No. 4 (planted one foot apart between the hills), produced the heaviest yield, yet they were nearly as many potatoes reckoned small, $8 s$ there were called merchantable. So if it is an object to raise potatoes for the market, that distance apart betweer the hilla should be chosen which would give the largest number of bushels of good sized potatoes. From the experiment, Lot No. 2,-1two feet between hills-has produced that. In the second experiment me find a variation from that of the first, in some particulars. The California is a potato chiefly valuable for feeding to stock, and as it grows vers large, requires more room. It is from this fact, doubtless, that the lot planted two feet apart gave the largest jield, although the greatest number of marketable potatoes was from No. 3. In raising potatoes for stock it is desirable to plant them that distance apart which will give the heaviest yield from a given spot of ground. In the second experiment above, this is produecd from Lot No. 2.


## PRINCE ALBERT"S FARTI.

According to a writer in the Pbiladelphia Ledger, the late Prince Albert's farm is situated near Windsor Castle, about twenty miles southFest of London, occupies one thousand acres,
one hundred of which sre nerer plowed, and is wooded and sown with orchard grass, topdressed every four years with liquid manure. The arable land is subsoiled every two or three years with enormously large Scotch horses, driven tandem; rotation of crops much the same as ours, Frithout the indian corn.

Barloy and oats are crushed in a mill driven by steam; eighty short horn, and Alderney cows are kept; cow-stalis made of iron; iron t.oughs always full of water in each stall, with waste-pipe to gutter behind them, and thence to manure-shed, from which it is pumped into carts similar to ours for watering streets, and sprinkled over the grass. Keeps none but Suffolk and Berkshire pigs; prefers former on account of their taking on fat; as one of the swine-herds said, "A dale of fat a dale quicker."

The pig-jens are of stone, and pared with stone, being lower in the centre, fris.a which a pipe conducts the liquid manure to keep. In the garden I saw peach, apricot, and plum trees trained espalier; pine apples, strawberries, and grapes, in all stages of growth; the latter nner than in countries to which they are indigenous, and ripe all the yias round. Melons will not grow in the open air, but they have pery fine ones in frames. Her Majesty must certainly fare sumptuously every day. There ave furty men to attend to the garden alones

Mr. Tait, the gentlemanly manager of the farm, gave me every information desired. I also went to see the Queen's stables at Buckingham Palace; they would make more cov: fortable dreellings than two-thirds of the people live in. English farriers have found out thet the upper part of the stall ought to be lowest by two inches at least. There are in those stables one hundred and six horses. Her Majesty is partial to greys, and may be seen driving two in hand in. Windsor Park. The Princess Alice drives four ponies, and is said to be an excellent horsewoman. 1 saw the eight creamcolored horses that draw her Majesty at the time of opening or dibsolving Parliament. Their harness is red morocco, gold mounted, cost $\$ 10,000$; and tha state carringe cost $\$ 35,000$ ninety years ago.

## BREEDER'S DEPARTMENT.

## THE TREATHENT OF BRUISES.

Simple and easy as is the treatment of ordinary braises and wounds, there exists regarding them much misconception and error. Ignorance is apt to be either supinely careless and neglectful, or it falls into the opposite fault of undue medding and doing too much. It is addicted to remedies which bare a decided and immediate effect, and often errs in using active and violent measures when simplo and soothing means Fonld be preferable. Setting aside hot oil salves, and those misnamed healing ointments, Fre find wounds and bruises generally make more rapid and satisfactory recoveries when simply or rationally treated with hot or cold water, sppropriate bandages, and scrupulous cleanliness.

Bruises differ materially in their severity
from the sligit galling of a badly-stuffed saddle $o r$ indifferently-fitting harness to the extensive contusion of a smart kick or violent blow. In the former class of cases the injured part must be carefully reliered from chafing or pressure; and as the inflammation is butslight and superficial, it is readily subdued by rest and bathing with salt, and water, vinegar and water, or any other con renient cold application. When the bruise is sercre and considerable, the parts speedily become much infiamed, and, in consequence, are hot, swollen, tender, and painful. The external ressels may be injured when the surface is black, and the inflammation is especially acute around the spot so sererely injured. In such cases hot fomentations are necessary, whilst to secure their fullest benefit they must be emploged repeatediy and for several hours
continuously. A good sponge or a large piece of soft porous rug or flannel is the best means of application. Ifa poultice can be conveniently applied and secured, it may then be used. There is much liversity of opinion regarding the respective merits of the different sorts of poultices, and whilst some prefer bran, others use turnips, and others again affect oatmeal, linseed, or barley dust. But there is really no special merit in any particular ingredient. That is best which longest retains the heat and moisture, in which the virtue of the poultice essentially consists. For reterinary purposes a maixture of bran and oatmeal, or bran and one third of linseed-meal answers the purpose extremely well, and is always softer and better if properly boiled itstead of being onls scalded, as is commonly done by water over it. For many bruises, spongio-piline is now preferred, and when saturated with hot water and dezterously secured, it is usually more easily kept on than the poultice, whilst it is less apt when used for a considerable time to injure the adjacent sound skin.
When a contusion of the soft parts is estensive, and there is much tenderness and swelling, a few cuts with the lancet or knife will liberate the extravasated blood, unioad the overburthened vessels, check the growing inflammation, and relieve the tension and pain. Of the propriety of such an operation, the properly qualified surgeon must be the judge. To keep down inflammation, perfect rest must be enjoined, a dosie of laxative medicine given, osts, beans, and other such stimulating food rithheld, and the diet mainly restricted to green food mashes and other such larative and cooling articles. When an injury has been extensive, a portion of the injured structure frequently dies, and becomes gradually separated by a sort of natural dissection from the adjacent sound tissues, forming what is knownas a slough. This dying portion must not be too hastily or rougaly remored. By a bloodiess amputation, as it were, nature eloses up the vessels that connect it with the living tissues, and gradually separates the hopelessly diseased from the bealth tissucs, whilst underneath end around the ne atructures are slowly growing and displacing the slongh. Grooms and farriers often adopt a most rude and cruel method of getting rid of such slough. Into the wound they radely insert some irritant matters which induce violent inflammaticn in the already excitab? parts. Such treatment may certainly hasten the removal of the slough, but it silso weakens and extends the wound, retards healing progress and increases the chances of $\rightarrow$ permanent scar or blemish. Perfect rest, with hot fomentations, moderate the inflammatory action; patience, poultices, and gentlo traction usually suffice to bring away any siough; a litlle landanam and sugar of lead lotion slleriate the pain; the prossure of carefolly adjusted bradages and an occasiona. touch of any convenient caustic prevent the nudue growth of proud flesh; whilst as the tenderness disappears the remoral of swelling or discoloration is expedited by friction, coldwater applications, and wettiog with diluted solution of muriate of ammonia. When the
swelling continues after several weekg, and after all tenderness is gone, and any wound is perfectly closed, the hot oils, blistering ointment, or other such stimulants mar be very properly tried. But it must be remembered that they are only useful after all inflammation is subdued, and that when used in recent cases they increase the irritation, and "add fuel to the fire."

## FEEDING HORSE8.

The feeding of horses is an important subject, on which we will give a hint or two. The actual amount of food consumed by a horse will depend upon his form and disposition. I have found that horses of a compset form and quiet disposition, weighing 1,200 pounds, and exerting a force equivalent to moving 150 or 200 pounds at the rate of two miles per hour, for 10 hours per day, and six days in the week, will require each 20 lbs . of oats, 14 lbs . of hay, and 70 lbs. of water, with a comiortable stable to keep them in order. Hifch depencis upon the horse having a keeper who knows how to use bim without barshness.

## THE FEEDING AND BTABLE MANAGEHENT OF HAGES,

A correspondent from the neighbourhood of Arbroath evidently fond of his horses, and probably doubtful whether their stable comforts are duly attended to, requires our advice as to how they should be fed and managed; weather they should wear covers, and how they should be groomed when they return home wet, dirty, and heated. Our correspondent further bazards the opinion that information on such topics would be welcome to many"constant readers" besides himself, and we accoràingly make his important queries the text of our weekly aricicle.
It is somerbat difficult to lay down any rules as to the feeding of horses who secap acities differ almost.
to which the queries, we presume, mainly apply should be limited to a daily allowanc of 12 or 15 lbs . of good old hay, and will eat besides about 10 lbs: of old oats, which should be given in three feeds along with along a little chaff or bran, in order to ensure their thorough mastication and digestion. A pound or two of old beans or better still of old peas is often added, especially for harness work. For some years we have been in the habite of allowing our horses a pound daily of linseed cake, which keeps the skin glossy, and belps to contract the heating tendencies of dry hard food. Unless they are being prepared for very severe work, even the lighter sorts of horses are the better of a bran mash once a weeko. Tater should be ireely allowed at least twice daily, but never within two or threo hours of fast work. To bring well fed horses into good condition, snd fit them for severe exertion, they must hare at least two hours daily exercise, of which about one half should be at a smart trot. To pierent injuryof the legs and feet it is important that horses be exercised on soft ground.
The propricts of keeping the horss clothed
in the stable is usuaily a matter of taste. If the stable is comfortable rarm and the grooming good, covers can be dispensed with, and we know horses that make a very creditable appearance in the hunting field that are never clothed. If the nature of their work keeps them standing much exposed, they will be less liable to colds if unclothed in the stable. Where however, clipping and singing are practised a woolen rug bad better be used. The prevailing fashion of tarning the horse out denuded of his winter coat will probably now become still more common if the new clipping machine cumes in use. The practice, although certainly unnatural, has many recommendativus It prevents undue and reduciag perspiration so inevitable where work is performed in a ling coas ; it enables the horse to do his frork mure easily and comfortably, whilst it expedites and facilitates cleaning and grooming, and diminishes the chances of cold from the aaimal standing as he is now apt to do, shivering for an hour or trro in a tardily drying long coat. This is very prejudicial to every horse, and is a most fruitful source of colds, inflaenzas, and various other ailments.
Eren good grooms differ as to the manner of performing the several details of their duties, but all agree in promptly attending to the horse that has returned from work, wet, dirty, and heated. It is dirts and uncomfortable alike for man and beast, to do the grooming in the stall or box; but except in the beat of the day and in fine weather, when the outer air will do no harm, the horse must be brought under cover of a convenient shed or unused stable. The stable besom applied to the legs and belly will remore the " ruugh of the dirt." Stripped in his shirt sleeres, with a bucketful of tepid water and a soft brush, the groom then' carefully washes the legs, feet, and belly. This done, the saddle is taken off, and the bead and back rapidly sponged so as to remove erary mark and speck of dirt. When the horse is bare clipped, the bedy is generally sponged all over with tepid water, and the practice is good where the groom is careful at once to thoroughly dry the animal. The horse may now be takea to his stable or box and hare a fet oats, a lock of good hay or if his excrtions have been great, a couple of quarts of well boiled ohtmeal gruel. And whilst the horse thas regales himself, the diligent groom will carefnlly rud him dry, first with the hay wisp and then with a diry cloth. The well shaken rag is then put on, the bucketful of water and supper given, and the bed comfortably made up. The bits and stirrup iroths or harness then come in for their rubbing up, the saddle will be sponged, and the girths and ceins well washed and thoroughly dried.
To do up a back nicels and comfortably takes nearly an boor, and a fatiguca hunter wili demand still longer and more carcful aitention. The horse that labours for us so cheefinity and well, surels deserves to be properly tended, and bis good loukis and satisfactorj performances are a rery reasunable measure of the grooms anxious and pains-taking care. When he is chary of his time and labour
and leaves the stable half an hoar after his Borse is brought home, you may be sure that your work is slurred over and neglected, that your horse cannot be thoroughly cleaned, or that if washed, he is not balf dried. His coat next morning will be rough and dusty, and will require an extra hour's work before it looks sleek and comfortable.

## TO CURE KIGEING HORSES.

-"J. R.," in the Rural New Yorker, recommends the following plan. "Let the horse stand betreen tro partitions. Bure a tro inch-hole in each, on a horizontal line, about $1 \frac{1}{2}$ inches above the horse's hips, take a round stich long enough to reach across the stall, and placeitin the holes, and pat a pin in each end of the stich so that it cannot fall out. The horse may try to kick, but will not be able, as the stick will prevent the necessary eleration of his hind quarters, and after a few attempts he will give it up."

## HINTS ON BUTTER-MAKING.

## Depth of Milk.

Col. Pratt, of Prsttsville, Greene 'county, formerly the celebrated tanner, now equally successful with the Dairy, finds that the largest quantity of cream rises, and consequently the greatest quantity of butter is made, when the milk is one and a quurter inches in depth in hot weather-and an inch and $\varepsilon$ half deep in cool weather-scren or eight quart pans thus containing but two and a half quarts for the first named depth, and three quarts for the latter. The temperature is kept as nearly. as possible; to $\mathbf{~} 20$, although in warm weather it mas run up to $65^{\circ}$, and in extreme cases to $70^{\circ}$ :

## New way of Masirg Batter.

J. Zoller, of Osmegatchie, N. Y., saves the labor of setting his milk in pans, skimming, and taking iare of the cream, by simply straining the milk of one day into six churns, and churning next morning, by borse power, the milk being then sour, but not loppered. He thinks he also makes mo:e butter in this way, from the same quantity of milk. The milk being sour, produces butter more readily than if fresh. An experiment, carefully made, with cream from pans, and by the above method, resulted ingiring 10 per cent more butter from the churned milk.

## Washoing butter.

A correspondent of the Boston Caltivator says he has not bad rancid butter in the spring for thirty fears. He washes it. Not with water, which he, with most ghod butter-makers, regards as injurious, bot with swoct skim-milk, salting it afterwards. Hare any of our readers tried this ras, and with what results? There are some good butter-mikers'that mash their butter with water, apd make's better article than some bad manufheturers who do not rash in. But equal skili, cleanliness, and carefal managemeith, wuld doubtless with these gond manufacterers make better butter withoiat washing.

