AI

of e

than

alor

judg

ent

whi itie

tors

Col

sat

tha

fed

No

de

in

ion

th

an

Gr

an

br

su

The Farmer's Advocate AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

PUBLISHED WEEKLY BY THE WILLIAM WELD COMPANY (LIMITED).

JOHN WELD, MANAGER.

Agents for "The Farmer's Advocate and Home Journal," Winnipeg, Man.

1. THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday.

is impartial and independent of all cliques and parties, handsomely ikustrated with original engravings, and furnishes the most practical, reliable and profitable information for farmers, dairymen, gardeners, stookmen and home-makers, of any publication in Canada.

2. TERMS OF SUBSCRIPTION.—In Canada, England, Ireland, Scouland, Newfoundland and New Zealand, \$1.50 per year, in advance; \$2.00 per year when not paid in advance. United States, \$2.50 per year; all other countries 12s.;

8. ADVERTISING RATES.—Single insertion, 25 cents per line, Contract rates furnished on application

4. THE FARMER'S ADVOCATE is sent to subscribers until an explicit order is received for its discontinuance. All payments of arrearages must be made as required by law.

THE LAW IS, that all subscribers to newspapers are held responsible until all arrearages are paid, and their paper ordered to be discontinued.

REMITTANCES should be made direct to us, either by Money Order, Postal Note, Express Order or Registered Let-ter, which will be at our risk. When made otherwise we will not be responsible.

V. THE DATE ON YOUR LABEL shows to what time your subscription is paid.

every case the "Full Name and Post-office Address Must be Given." 8. ANONYMOUS communications will receive no attention.

WHEN A REPLY BY MAIL IS REQUIRED to Urgent Veterinary or Legal Enquiries, \$1.00 must be enclosed.

LETTERS intended for publication should be written on one side of the paper only.

11. OHANGE OF ADDRESS .- Subscribers when ordering a change

of address should give the old as well as the new P.O. address.

address.

WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles. For such as we consider valuable we will pay ten cents per inch printed matter. Criticisms of Articles, Suggestions How to Improve "The Farmer's Advocate and Home Magazine," Descriptions of New Grains, Roots or Vegetables not generally known, Particulars of Experiments Tried, or Improved Methods of Cultivation, are each and all welcome. Contributions sent us must not be furnished other papers until after they have appeared in our columns. Rejected matter will be returned on receipt of postage.

13. ADDRESSES OF CORRESPONDENTS are considered as

13. ADDRESSES OF CORRESPONDENTS are considered as confidential and will not be forwarded.

14. ALL COMMUNICATIONS in reference to any matter of nected with this paper should be addressed as below, and not to any individual connected with the paper.

Address-'THE FARMER'S ADVOCATE, or THE WILLIAM WELD COMPANY (LIMITED), LONDON, CANADA

a condition that at certain seasons of the year they are in an almost impassable state.

Automobile owners are to pay a share towards the revenue, as stated in our last week's article, and this will produce about \$400,000 annually. This is a big item, and taxing automobiles according to horse-power has been advocated through these columns time and again. It is right and just, a necessary and advisable move, and the Commission are to be con-

gratulated upon so ably handling the matter. The developing of a special highways department under a Minister of the Crown should put the work on a permanent basis. The roads of the Province have been carefully classified, as indicated in last week's issue, and as previously stated the bringing of 42,500 miles up to a fair standing, and fitting 7,500 miles of country roads to bear the severe demands made upon them is no small task. Special attention is to be given to main township roads, and it is proposed that the aid should not be given to townships until the county has assumed the system of market roads, the reason given being that alternate plans might seriously interfere with the installation of a proper system of country roads.

The report showed that the capital investment in agriculture in Ontario alone was, at the time of the last census, \$1,283,000,000, whereas the capital invested in manufactures and industries of the Dominion was \$1,247,500,000, or \$35,-508,000 less. Think what a good system of roads means to an industry with such gigantic proportions as the agricultural industry of this country. Think also of the magnitude of the

undertaking of bringing all the roads in the country up to a high standard. Good roads are of immense economic importance to the farmers of Ontario.

It is interesting to note also in this connection the radius of the area from which the various cities of any size in the Province draw the main portion of their food supply. Toronto being the largest city draws from a radius of 35 miles, Ottawa 16, Hamilton 11, London 8, Brantford 51, Kingston a little over 71, and so on down to a little less than four for such cities as Woodstock and Chatham. This would seem to indicate that the best market roads must run for this distance in all directions from the cities named.

The Commission went into the matter very fully and their investigation has been complete and the report is a lengthy one, containing, the most valuable available information. The people of Ontario have been agitating for some time for better roads, and they expect action. It will not do to delay this very much longer. Of course, as the report points out nothing very definite can be done before the season of 1915, but the Legislature must get to work, and whether they stick closely to the details in the report or not something must be done. It is not enough to investigate and report. The people want and need better roads. The report from the best findings tells how to get them. It should not be placed back on the shelf, but kept right to the fore until the scheme is in actual operation, the good roads are made, and a thorough system inaugurated to maintain them in the very best condition. We feel sure that a start has been made in the right direction, and that the legislators believe the matter of sufficient importance to warrant their pushing it to a successful conclusion. The investigation has been thorough, let the action be just as thorough. It means many millions to the Province. The outlay is small compared to the value of good roads.



The Poor Child.

Nature's Diary.

The major of the marshes has returned; the blackbird with the red epaulets is in his reedy home once again. The red-winged blackbird is certainly the presiding spirit of the marsh; in fact he seems to own the marsh, so vigorously does he protest against any human intrusion upon his domain. The male of this species is a conspicuous bird, and very easy to recognize. With the female it is quite another matter, for she is an obscure brownish-streaked bird.

The red-wing differs from most of our birds in its marriage customs, as it practices polygamy, and a colony of these birds in a marsh may consist of but one male with his three or four mates. The males arrive from the south in ad-

vance of the females, sometimes even three weeks in advance.

The nest of this species is usually placed over the water, supported on the stems and leaves of cat-tails. It is constructed of reeds and grasses, The eggs are pale and is lined with fine grass. blue, streaked and spotted with black.

The diet of the red-wing consists of seventythree per cent. vegetable food, and twenty-seven per cent. animal food. The animal food amounts to only a little over one per cent. in January, hut gradually rises to over eighty-eight per cent. in June, after which it decreases again to less In the spring than one per cent. in November. and early summer most of the animal food consists of caterpillars and beetles; in July and August it is made up mainly of grasshoppers. In certain localities this species has been reported to feed largely upon grain, but throughout the country at large its vegetable food consists mostly of weed seed, so that by its preference for this latter article of diet and its consumption of injurious insects it should gain the farmer's approval. The red-wing breeds in Canada from Nova Scotia to Saskatchewan, and winters from Virginia and Illinois southwards.

In our spring woods there appears a little flower of such a dainty and fragile appearance that one would be inclined to think it would hardly dare venture above the soil so early in It is called the bloodroot, because the season. of the red fluid which issues from the root-stock This red juice shows through if it is injured. the transparent stems of the leaves and stalks of the flowers, giving them a clear orange appearance. This juice was used by the Indians as The bloodroot plays, to a certain extent, the part played by the snowdrop in the Old Country-it is a white blossom which ap-

pears early in the spring. When this plant appears above the ground the leaf is wrapped in a cylinder about the bud. As the flower opens the leaf expands, and is strikingly handsome in form. Later in the season the leaf becomes large, often measuring six inches across, and has a petiole ten inches in length. On the outside of the bud are two sepals, which fall away as the flower opens. There are usually eight petals, though there may be twelve. As a rule every other petalis longer than its neighbors, which makes the flower more square than circular in outline. There are numerous stamens, The two-lobed stigma opens often twenty-four. to receive pollen before the pollen of its own flower is ripe, thus ensuring cross-pollination. The blossoms open wide on sunny mornings, in the afternoon the petals rise up and the flower closes at night. It also remains closed on dark The root-stock is large and fleshy, and in it is stored the food which enables the flower to blossom early, before any food has been made by The root-stock is fringed with the new leaves. numerous stout and rather short roots. bloodroot is one of the flowers which must be admired in its native haunts, for the petals fall so readily that the flower will not stand transportation from the woods to the house.

The alders are now hanging out their "lamb's-These attractive objects are the stamintails." ate catkins, and as they elongate they become yellow, and the pollen falls from them at the slightest jar. The pistillate flowers of the The alders are alders are small, ovoid and red. adapted to pollination by the wind, as the pollen is blown from the hanging staminate catkins on the stigmas of the pistillate flowers. After fertilization the pistillate flowers develop into little woody cones.

THE HORSE.

The Brood Mare.

Femininity is as necessary in the brood mare as masculinity is in the stallion. The hard, dignified, determined expression of the sire should be changed to one of maternal mildness and softness in the dam. The lofty crest and muscular development so desirable in the male are altogether uncalled for in the female where we look for a conformation indicative of refinement In the draft breeds particularly, of character. the owner delights in a short, strong-coupled back but a successful brood mare may carry this conformation to the extremes. She is nature's receptacle intended to receive and develop the creation of the male of her race and in so doing it is necessary that she have a greater length of loin and deeper extension of rib, in order to maintain the foetus, and more successfully bring it into the world. The hard, brazen, masculine expression of the mare is evidence of undeveloped maternal organs so necessary in a good foal producer. Observation will substantiate the remark that barren mares are more masculine than feminine, for a lack of sex characteristics indicates a lack of procreative power. Castrating foals while young causes them to assume more of the appearance of the female while unsexing mares by removing the ovaries causes a development of the coarser traits. In selecting a brood mare it is of paramount importance