### The Experimental Union

Two hundred million dollars annually represent the value of the farmer crops of the province of Ontario. To appreciate the value of the work of Ontario Agricultural and Experi mental Union which held its annual meeting in Guelph last week, one needs only to be told that experiments with farm crops were conducted on 4,556 farms throughout the province this past year, and that these experimenters are making a study of which crops are the most profitable under either own conditions, that the re-sults of these experiments are demonstrated in each locality wherein they are conducted and that the valuable information secured from the whole of this work is disseminated through of this work is disseminated through various channels to the farmers of Ontario as well as to those of other provinces. In this way and through the distribution of seed grain, the Experimental Union is responsible for much of our increasing prosperity and the over-increasing annual value of the farm crops of Unario. The scenestery Prof. C. A Zavite

The secretary, Prof. C. A. Zavitz, in his annual report drew attention to the fact that it is 24 years since the present creating of the present system of experimental the present system of experimensal work was started in a general way with only a very small membership. The development of the work has resulted in doubling the yields of Ontario farm crops and in filling the

agricultual college with students. President J. O. Laird of Blenheim, Ont., in his address pointed out that many farmers had worked themselve into new varieties through the grain secured for the experiments. This meant direct increase in yields. Not did it profit the experimenter alone Nor others became encouraged and reap ed increased returns, hence the worl of the Union means millions of dollars to the province. Touching up-on the matter of co-operation, the president said that were we as farmers to band ourselves together, we would reap untold benefits and have four times as many members in par-liament and in our legislative halls Emphasis was laid upas at present. on the matter of personal appear-auce and the speaker stated: "We would be more respected than we are. were we as a class to wear better clothes. We have no reason to be alathas

ashamed of our calling and we should see that our calling is not ashamed of

A special feature of the program of the Union this year was the promin-ence given to the work of the eleven district representatives of the De-partment of Agriculture which are now located at various centres over the province. Reports of work ac-complished showed the movement to be a great one and worthy of hearty support and extension. The short courses in connection with these departments seem to be the most popular part of the work; as President Creelman said when telling his recent experiences at the short courses held in Dundas "When as many as 400 people, County men that had previously no organi zation, would turn out to a short course and stay from eight o'clock in the morning until late at night, it looks as if the short courses had come to stay."

By far the most important feature f the meeting was the reports on or the meeting was the reports on the results of co-operative experi-ments with cereals, legumes, fertiliz-ers, potatoes, sweet corn, field roots, the fodder plants, and hay crops, given by Prof. C. A. Zavitz. It would be hard to estimate the results to the country from the information derived country from the information derived from the co-operative experiments as directed by Prof. Zaviz. In the case of battey alone, much has been accomplished. The O.A.C. No. 21." barteyr.-a special strain of the variety that was distributed over the pro-vince through the medium of the Un-ion and which has been of well-known benefit-bas should at the band of thus benefit-has stood at the head of the list of barleys since it was sent out in these experiments four years ago. It has given practically two bushels to the acre more than the Mandscheuri variety. It is more popular, has stiff-er straw and is freer from rust than the old Mandscheuri. Prof. Zavitz said that he had traced some 3,000 or ,000 bushels of the O.A.C. No. 21 4,000 bushels of the O.A.C. No. 21 parley, which had been produced from the one pound lots that were first sent out and in every instance all spoke very highly of it. He believed that it would take the place of the Mandscheuri variety that has already

essewhere in this issue). the Commercial roeding Stuffs Acc, 1909, was discussed by Professor Har court, of the conego. The securing or this act was the direct result or enorts put forth on the part of the experimental Union. The Professor atter outliming the various features of the Act, said that it should be of great assistance to farmers in enabling chem to protect themselves from low grades of feed with which they are unfamiliar and it would also protect che manufacturer against dishonest competition. It would enable farmto use feeds economically and intelligently.

WEED SEEDS FROM ELEVATORS The Hon, Nelson Monteith who took The Hon. Neison Monteith who coose part in the discussion upon this act congratulated the members of the Union on having their ediorts reach fruition at so early a date. Since the amount of food stuffs consumcated Ontario is enormous he did the the Union best in the Union best in the fin regard that the Union bestif itsen in regard to the tailings brought in from ele-vators at Port Arthur. The nuisance caused by weed seeds in this connec-tion should be abated. "They are poisoning the lands of the Province," said Mr. Monteith, "and since efforts here here as successful in the matter said Mr. Monteith, "and since easily have been so successful in the matter of securing an Act regarding feed-ing stuffs, efforts should be put forth regulate the matter." Mr. W. S. ing sturn, enorts should be put forth to regulate the matter." Mr. W. S. Fraser, Bradford, endorsed what Hon. Nelson Monteith had said and in-stanced the large amounts of noxious mead age is in internet here in the stanced the large amounts of noxious weed seeds in mixed chops, in the compounding of which these tailings are used. He cited Professor Graare used. He circle i focuso i are han's experience in feeding weed seeds to poultry, the result of which, the Professor claimed was that had he continued the use of the seeds for a week or so longer, his stock would have died. This was good evidence if the intervention of the second second in the second second second seco have died. This was good evidence of their feeding value. Professor Harcourt explained the difficulty of having this matter dealt with effective. having this matter dealt with effective-ly owing to the various interests that would be affected and to the fact that western opinion would be strongly against any such regulations.

TO REMEDY THE EVIL Mr. Nelson Monteith, Mr. Fraser and Professors C. A. Zavitz, and Har Manuschefft variety that has already and Frotesors U. A. Zavies, and East-done so much to increase returns in court were appointed a committee to Ontario during the last eight or 10 draw up a resolution dealing with the years. (It might be noted that Farm matter and on their suggestion the and Dairy offers seed of this variety following resolution was adopted :--

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## December 16, 1909.

"That owing to the introduction for teeding purposes of screenings taining noxious weed seeds, and the damage resulting from their wide Union respectfully recommends and urges that such legislation be enacted as will remedy the evil." The report of the results of experi-ments of commercial fertilizers distribution thoughout Ontario, this

ments of commercial fertilizers on farm crops by Professors W. P. Gamb-le and C. A. Zavitz demonstrated the fact that farmers generally should ex-periment with fertilizers and find out the actual needs of their soils and that we can never dispense with barnyard manure since we must have or-ganic matter present in the soil if we would get the best results.

CEASE EXPERIMENTING ON ROADS That the time has about arrived when we should cease the experimentwhen we should cease the experimen-ing in connection with road making and get down to laying out roads and building them in a permanent manner under certain rules and principles of construction, is, in brief, the point made by Mr. A. W. Campbell, De-puty Minister of Public Works in hiaddress on Country Roads in Ontario. He estimated that 21 millions of dol-lars or its equivalent had been spen in the last 10 years on the roads of Ontario. Had he this to expend un der fixed plans and specifications, are liked plans and specifications, in would macadamize every mile of roa in the Province. Such results hav not been accomplished simply becaus the work has been scattered, has bee patch and repair directed by unskille labor instead of permanent works caadamize every mile of road ovince. Such results have

ried out by competent commissioners. To grow better children rather than to grow better grain and more of it was the object as outlined by Prof. McCready of the School Division of the Experimental Union Committee which division was appointed las year. Reports received of the work a carried on in the schools are most er couraging. Children are given pleas ure as well as helpful instruction, an a deeper love for nature and a greate interest in agriculture is engendere into their minds through this work.

PHENOMENAL YIELDS OF GRAIN

Over 94 bushels of wheat to the act and how it was produced was a part of a very interesting address entitle "Svalof" given by Prof. of a very interesting address chance "Svalof" given by Prof. C C. James, Deputy Minister of Agr culture. Svalof is a little village i Sweden, a centre of production of Sweden, a centre of production of agricultural wealth, the home of D Neilson a man who has demonstrate how to double, treble, and quadrup the yield of grain. "Sweden is on home of Dr the yield of grain. "Sweden is on of the most progressive agricultura countries in agricultural education, "Sne spends or said the speaker. "She spends over une million dollars annually on agri-culture, which fact comes as a sup-prise to a people who often think that itderality is only on this side of th occan." The seed institute, the seed company, their farm and an agricsi-urral high school that came under M. James' notice, e.e.ch and all were deal with at some length. The initian' and self reliance of the people at Svaj of who do not wait on the Govern ment afterwards comes along and aj said the speaker. ments, but whose work the dover ment afterwards comes along and a sists, were qualities admired by Pr fessor James. From the two days instruction and inspiration received while visiting Svalof, Professor Jan thought that it would pay Canada the Province of Ontario to send a delegation to see just how product in agriculture is brought about Svalof.

OFFICERS OF EXPERIMENTAL UNION The following officers were elect for the year :- Mr. G. S. Henry, Or ole, President; W. J. W. Lenna Newton Robinson, Vice-Presiden ole, President; W. J. W. Lennas Newton Robinson, Vice-Presides Prof. C. A. Zavitz, Scoretary; F Buchanan, Assistant Scoretary; F H. L. Hut, Treasurer, Board of C. Trol; President G. C. CrealBarn, Ferguson, Dalmeory A. M. Wecks Glencoe, F. E. Webster, Greemore at S. H. Gandier, Lion's Head. December

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COM WATERVILLI

old and frost lor sleighing. for sleighing. ed the farmers finish their fa more plowing usual. The spi improved by ti places water in of the shortage ing carefully, is very small. 50c a doz; porl

HAST CROOKSTON. fine with no sno saving of feed this fall through this fall throug many farmers in the hay crop ly all got their year. The divi last year. In per standard in many. Hogs a hay, \$15 to \$16 H. W. hay, W

H. W. NORTHUI EDVILLE. 1 place, who live from a swamp, lately while plo S mud turtles' in diameter, an which a shell li which produced days. This is this port. Mr. trouble this sea setting hens' m caused by then night.-S. H.

BURI BOLINA.-The pretty well dom-returns for the erage, considering one into winter dittor the gone into winter dition than a hay and straw quality is good mon and root or so farmers are n marketable stoo sortor, buyers as fewer Christmas seriling high. A gone to 860 an doing rapidly p will be a grea being rapidly p will be a great ded clover thr and good yields pects of a good bred stock is a since the United lifted, buyers b American orders

American orders. VICTO HARTLEY.-Wi various charms, their stock hou and have a fais still hear the hu chine. There is cattle, as the ra disposing of the of the south an finish them for t of the south an finish them for t out as exporters mand although r Sheep a strict. ove. Horses and and at fair p nove hands at fair pr ful. Shooting ma the day. The re considerable dam shade trees, also MIDDL NILESTOWN.

MIDDL NILESTOWN. -wheat harvest out, if possible, to fi yield of 50 bush we found here the over 46, and the



## FARM AND DAIRY-Weekly

A paper for farmers and dairymen. It is paper for farmers and dairymen. It is an allocond, strong, arguing and dairy paper. It has departments for all lines of farm work, including the cultura-tion of the soll, live stock and a strong household department. Its market re-ports and letters from farmers are two of the beat strong.

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