AMERICAN SUPPLIES OF GRAIN TO EUROLE

(Monetary Titues)

such ngland leave no doubt that there will be a lurge distributy in the coop in that country, and that an unusually barge quantity of bread-tuffs will require to be brought about Imported Heaty generalizations about the crops in the test of Europe do not encourage the belief that more than an avorage crop will be found there. The United States wheat crop is unquestionably deficient. The United States Department of Agriculture, on the 1st August, reported spring wheat at 31 as against 88 at the same date fast year Winter wheat at a little earlier date Was set down at 63 as sgainst 95 last what are the respective proportions of and there in careless and inefficient winter and spring wheat grown litt workmanship is clear gain litt in this there are btates which find that spring they are sadly mistaken. Nowhere does wheat answers best, and which grow good and nectionious work pay so willie kind almost exclusively. In these as in the manufacture of machinery States the aggregate of spring wheat is a general rule mannacture of machinery As 11,854,000 acres this year, against 14,-140,000 in 1880. Whatever reasons there may be for doubting the estimates severe and practical tests of its strength, of the Agricultural Bureau, and these are very strong, helpg based on their wide discordance in previous years, with facts afterwards ascertained, no one contends that this year's crop is equal to last use. It is a comparatively easy matter year's. It toliows that the United States to slight the work in producing will be able to share for export less machinery of many descriptions, and it will be able to spare for export less machinery of many descriptions, and it wheat from the crop of 1881 than she is often a difficult matter to show where expected of that of 1880.

ture ability of the United States to contribute towards the supply of European one of our machine shops the other day deficiency. Considering the newness and asked the cost of making a certain and the supposed fertility of much of the special machine. Upon being informed States is very low. An average crop of that he hald for one which he already apring wheat is put down at 14} bushels had in his shop he was surprised, and to the acre; and the data are probably demurred at what he thought was an very nearly correct; but the official essential extravagant price. But, says the maker, timate for this year, 8t on the 100, "the machine you now have does not do brings it down to 11.74 per acre. This perfect work, the one I propose making decrease, which is but a bushel less to will." The purchaser reluctantly left the acre than last year, if it could his order, but after getting the inachine be relied en, would aggregate 41, home and using it for some time he 000,000 bushels. The decline in returned to the makers and frankly the quantity of winter wheat is made to acknowledged that the high priced appear still greater. This in spite of the machine was in fact the best purchase fucrease of acrospe, from 21,892,000 to be ever made. Now suppose this manu-24,149,000 acree; the assumed difference facturer bad, after receiving the order for

It seems difficult to believe that there has been no increase in the acreage of way construction during the year which in it construction. He is, in fact, a might be otherwise utilized, but if the perpetual advertiser of the skill, good workmanship and benesty of the manual last year's prices, has not increased, facturer who thus furnished him with a the fact is one which may prove to have great significance for the United States. It may show that the area of land available for the profitable growth of wheat is not capable of very great immediate extension. Supposing the estimated reduction of yield per acro to be true, it would not necessarily follow that the decline is more than accidental and is due to permanent couses. Still, the lev

Went of progress in the extension of wheat cultivation, if the fact he certain, may flud a partial explanation in the in-Agricultural Bereau first put at 2, and then, a mouth after, at 20 per cent. The average of corn must have been the same on the 1st July that it was on the 1st August; and this extraordinary revisal briwsen these two dates shows on what sandy foundation three figures real. What resees is there to suppose that the average of wheat is any more correctly given? If the average of wheat is low, that of corn is probably high; but how low it really is is the question. The liurean's estimate of the increase of corn is almost certainly too high; and corn is not accepted as a universal substitute for wheat in Europe.

A low average in the United States incans more than a low average in Canada, bocares there a large part of the best solls have been brought under cultivation, while here our lest soils have secreely can touched. It is, no doubt, true that there is everywhere a tendency to bring the hest solls under cultivation tirst, but this is not always possible. It was not possible to the immigrants who came in the Mexicory to the ricky coast is the result? In the reliest of harvestof New England, because the best lands,

stea of land in the Western States of heighbours. The most popular made country to emigrate productive powers have not in a life in the backet cody, and those that from and the protected country a good in the largest sates, me those while it is correct to any apacitor or less extent while it is not to the last requisition for dear dillet in the formal defending to the formal the formal to be found that the continuous has a packet or less extent to the backet of the mest of the most of the found to state the formal to be found the formal to be found that the sate of the sate o The deployabless counts of the forces of time will come when Canada will supply well fine had working parts when this in cosasty tending of every industry changing base modellit that for will a force supplies of wheat to furope than and in one escential, and that have stated is to now. It may be laid down a large difference in the every in the every in the every in the every in that the large difference in the every interest. years touck clapse before that change is

THE ADVANTAGES OF A GOOD REPUTATION TO MAKIERS OF MACHINERA

(Chicago Industrial World.)

There are many makers of machinery who do not seem to understand the true Value of a good reputation for their pro-ductions. They evidently think that The statement does not show the saving of a few hundred dollars here good and meritorious work pay so well durability and general working qualities. Deception in the manufacture of machiners will almost invariably come to light when the machines are put to care and labour have been bestowed upon It is possible to over estimate the fu- certain machines until they are placed in operation A manufacturer went into soil, the average yield of the United that it would cost double the amount being in the reduction from 13.72 to 12 the special machine, slighted the lamble the acre, and amounting to an work, as ordently the makers of aggregate of 25,000 000 bush. According to these figures, the total decrease in the other had done; the result would have been that he would the wheat crep as compared with last year is 93.000,000 bushels. the ill will of his duped purchaser, because the latter would have discovered wheat grown this year; which would the cheat the moment that he had set show the States to be, temporarily at the machine in operation. Now as to the machine in operation. Now, as it least, in the extension of the growth of happens, the purchaser cannot say too wheat, in a non-progressive condition, much in favour of his new machine, and Much labour has been employed in rall- the high class of workmanship exhibited good job.

Frequently the inquiry is made, why does not such and such a manufacturer succeed in building up a trade? The reply will be that while it is true that he has a good kind of machine, it is so peorly constructed that it will not sell. It is a common practice for buyers to take time to look around and examine different kinds of machines, and make average yield of an average year would numerous inquiries of those using them, influelly imply an approaching exhaust before making their selection. It can tion of soil in some parts of the country, thus readily be seen how essential it is: But this area would not seem to be re- for the manufacturer to establish a good latively very large; for among the States reputation for his goods. Suppose one which show a decrease are Texas Callfornia, Nevada, Colorado and territorios,
which are too young to have given much
off, at once, and :nake a selection, with
opportunity for exhaustion. It might be
out first learning something about the
policy was adopted, the allk weavers different with Virginia, Tennesser, and working of the engine from those who were an important element in the popular of the name of farms. It appears even Wisconsin and Iowa, which also had employed it, or had knowledge of lation. They have been dwindling in that the average also of heldings in Ireshow a descioncy as compared with last its good or had qualities. Sometimes sumbers every since, year. But when what is taken as the buyers rely on the statement of the The great industries normal average is only a little over 14 seller in such matters, but a caroful and bushels an acre, there must be a very low | pradent purchaser would investigate the average in some places to infance the marits of the segine for himself before heavier crops produced on the new soils buying it. Should be get into a shop where a similar engine was employed, and there find that, while the principle of its construction was all right, work itself was alighted, the materials se of corn cultivation, which this employed were poor, and that parts that should be finely finished were only roughly and imperfectly made, he would most likely conclude that he nceded a better finished engine, and thus the maker would have lost a customer. But alighting work and employing theap material are not confined to the most costly machines. We find this trouble cropping out in all descriptions of machine work. True there are cer-tain kinds of machinery made rough and cheap on purpose. The buyer purchases them as such and intends them for a purpose where quality is not a prime consideration. In such instances the maker is not depending upon the repatation of life work, but upon the price

The value of good workingship is probably nowhere made more apparent than in agricultural machinery. is defective, made of poor material, and ready to break at any moment; lio also fluis that the woodwick is poorly constructed, and of inferior material. log, whon ever hour is valuable, his

required

investigation are being more and more gether educated to buying with their cyes open. Information to now being wattered broadcast, and people are better able to find out the deceptions practiced in the trules than they were, and therefore, saids from any considerations of duty, the manufacturer who is the most conscientious and painstaking in his work will be the most ancressful, other things being equal. The denand for good and substantial work in machinery is growing as the experience of manufacturers legrowing. The day for "aliam and shoddy" in machinery is rapidly justing away, and what is more good work and good prices are going hand in hand together. While cheap and workliss machinery will doubtless be made and sold as long as dishonesty and shiftless. ness remain to curse the world, it is still an indisputable proposition that it is far more profitable to make good work than poor workin every case where the manufacturer depends on the good reputation of his machinery for its sale.

THE UNCERTAINTIES OF FREE TRADE.

(Toronto Mail)

Free trade in England has resulted in some six or wight manufactures in a state of congretion; all the others dring of depletion. It is curious to note how the vigorous English pertinacity has strug-gled in the vain effort to austain manuturing country, some branch had taken root and flourished till the new system killed it out. Coventry, for instance, was first colebrated for its manufactures of cloth caps and bonnets. These were superseded by the manufacture of weetlen of menumetures in England is a blatory of efforts succeeding each other like the transient boarders in an urban hotel Manufactures, like that of sugar refining, have risen to a great height. They have fallen to nothing. The cotton manufacture, notwithstanding its immense development, is in a precarious and un-certain condition. It is dependent upon a foreign supply of the raw material The silk manufacture has taken to Itself wings and found a home in France.

The industrial history of France and the United States shows no such changes. It is steady progress. Let an industry get a hold in either country and it goes on growing. In illustration of this, take the best-root augus industry and the slik industry in Franco, both started under the protective policy of the first Napoleon, and both growing year by year. The elik industry in the United States shows the same steady growth; le-ginning from nothing, it has grown to respectable dimensions, with every promise of attaining immense propor-tions. In England, when the free trade

The great industries to which, under England's peculiar conditions as to labour, a free trade policy has given an impetus are the cotton, the woollen, the fron, the linea manufactures, the manufacture of machinery, and the coal in-dustry; and there is not one of them but wn a yearly decline in the amount exported. There is not one of them but has been stlacked in its home by outside You will see American cotton guods in Manrhester. American cutlery in Sheffield, and so on. Then it comes to thie, that the industrial history of England shows a great variety of manufactures springing up under a protective policy; a great decay of these, and an enormous development of a few manufactures, under the free trude policy Ever since England began her career as a manufacturor, there has been a constant procession of manufactures; first, into the country under protection; and second, out of the country under free like acarod gliosts from the Island, just as they retired, as we have shown, one by

One from Coventry Now, we contend that any country is safer just in proportion as it maintains better assured by the proportionate development of agriculture, commerce, and manufactures, rather than by foordinate il-relopment of any one of the the three We contend further that the industrial history of the several nations shows

SPIRIT OF THE COMMERCIAL and much less grateful than that of our poor machine on his hands and will ment of all industries. As a coinsequence fatten far below it, and to a day a special should be about it millions as most been that to all his of this it follows that the free country to emigrate them. Plus have become still a face of fand in the Western States of neighbours. The most popular makes from and the protected country a good popular, and have decreased; trule in Logismi there have been more The topicotacturer should glassy land changes in the manuta tures of Eugland in mind that the is apparential than in ell the protected countries of the capital in the good reputation of his world put together-more industries that work. That tells in the future, and if have fallen to the rear, wounded and honestly acquired should grow with the sick, while the world's army of workers years. It is better to sacrifice a few in these countries has increased in numdultare in the enter of the present to lete, more that have sorrowfully bound reap thousands or dollars on the sales of themselves out of England than in any the future. Purchasers in this ago of protected country, or than in all to-

on and approximatification for the

AGRICULTURE IN IRCLAND.

(St. James' Gauette)

The authors and friends of the Land Bill are too much occupied with the theories which they are now forcing upon Ireland to have much time to bestow on so dry a subject as agricultural statistics. Those, on the contrary, who expect no miraculous prosperity to be the effect of that measure will look with as much interest this year as before at the returns compiled by the Irish liegistrar, and just issued by the Lord Lieutepant. Dr. Grimshaws figures show very clearly the position of the Itlah farmer during this which has been the most eventful year yet known to him. It ratests, as do the annual returns of English agriculture, the slow and atendy course in which a considerably targer crop, and sheld things rural move, whether from had to have enabled the occupiers to maisture good or—as in these days is too often the a larger stock on their farms ladde. case-from bal to worse. It will be seen, too, from these statistics how little the relative prosperity of the Irish farmer depends upon such nostrums as are presented in the Land Bill.

Of the total surface of Ireland-

20] million acros—mere than 2 million acros must be deducted from the agricultural returns as consisting of barron mountain, and nearly 1; million acres as bog and marsh; though it is certain that the greater part of this last could be converted into good land if capital and labour were for booming for the purfactures in places where under the old and labour were for hooming for the pursystem which made England a manufacture pose "Water, roads, tences, etc." comprise an extent not cording far short of one million acros; so that there remains available for culture of one kind or anothera total of rather more than 151 million acros. Of this, speaking in round numbers, 5 million acres were last year under arable cultivation, and 10} watchmaking, that by the manufacture were occupied as meadow or pasture of ribbons. The history of Coventry is land, leaving 15,000 of fallow and 340, the history of many places. The history of woods and plantations. Comparing this with past years, it seems that the barren mountain land has increased 10,000 scree since 1879, and the "water, roads, fences, etc." 1,000 acres whilst about 23,000 acres of bog and marsh were reclaimed, or otherwise disappeared from the returns. In the ten years ending with 1880 the total of un-productive land, excluding fallow, increased more than a quarter of a million acres-from 4,290,000 to 4,620,000. The land bearing owner and group crops de-creased in the same period from 51 to 5 million acros, while the gress land 'a-creased from 10,000,0000 to 10,750,000 Woods and plantations show insignificant increase in sise; and insignificant increase in size fallow land remains a within average of the ten years. At the same time the number of holdings has steadily but very slightly declined; showing no greater change in the sub-division of farms than might naturally be expected in any country. The total number of holdings in 1880 is reckened at 574,000, whereof about 50,000 were held in more patches of less than one soro in extent, and \$24,000 were worthland is about 27 acres; and indeed the most numerous class of farmers consist of those who own between 15 and 30 There number 101,000 egalast SCIES. only 134,000 who hold between 30 and 50 acres, and 73,000 who hold between 50 and 100. The whole class of " peasant proprietors" who occupy less than five s does not include more than 115,000 persons. This latter class is,

moreover, shown to have remained nearly unchanged in numbers during the last year; and it is only in the increased number of the larger holdings-above 100 acros-that there was any notable alteration. It is, however, remarkable that, excluding the petty holdings over one scre, there was during the period a decrease in every province in the number of occupiers, amounting in the whole to a failing off of 1,300, although at the same time the holders of 50 acros increased 20 in number.

The land, thus parcelled out among its occupient, taniatained in 1880 a stock arado, industry after industry retiring of cattle almost equal to that which it maintained in 1871. Even since 1873 the falling off in homed bearin has not amounted to more than about 5 per cont.; and in the matter of liveres, mules and seed there was an increase of some mer buya respect he takes it into the lite variety in manufactures, just as in 6 per cent. Every one of those cate-field to work, and finds that the gearing broader lines a country has its prosperity (gorles show, however, a decrease since 1870; and so do those which enumerate the goets and the poultry, though they are still above the level of ten years ago. But it is in the items of alleep and pigs that the year 1889 shows the most cen-apicuous decrease. The toss in shoep which lay in the laterior, were inaccess imachine brooks down and he has to beyond a doubt that under the free trade since 1873 has been more than 20 per he subscribed for the enterprise as sille to them; and in like manner the leave his work and rush of to town for a policy there is a survival of the fittent for ourt, and the total of the smaller animally projected, and that the we remain the control of the

off may no doubt be partly a concretely by the increased cheuppess of host a the market. but it is to be teared that vast number of cotteser and small o the rist have depended a or hogic with the animal whose special d ty was to furnish this fund. It may b now as cheep to buy become us to lead a at home, but the difference between the de line in the muster roll of pice meer. not only idiences and improvidence of the part of the quendam pig ower, but also forcesing barrenness of the land !. cultivates or pretends to cultivate To single feature in the return of live sixs for 1880 that can be called at all ca cournging is the comparative stead:anwith which the horses are kept up to's level not far below that of the previous year, and above the average of ten year past But even the antisfaction to be derived from this is largely mediawhen it is observed that there is a very heavy decline, of 17 per cent, in the total of foals under a year old For the culture of arable and meadew

fand 1880 was a good year in Irelast.
The estimated produce per acre was well above the average of ten years, son In the case of cats and root crops has only twice been exceeded in the decate The much smaller quantity of leaf sown with cereals produced accordingly a considerably larger crop and should a larger stock on their farms beside themselves living beyond the need of charity or a roduction in rent tistical details show, nevertheless, that the good harvost was much less produc tive than it should have been owing to the small acroage of land cultivated for thescrops which turned out best Thepe tato crop, for instance, was nearly three times as good as in 1879, and 30 per cent. better then in 1871. But the po tato grounds in the latter year covermore than a million acres, whereas in 1880 they included only about 820 880 Again, the wheat lands produced 25 ac cent. per acre more in 1880 than in 187, liut in the earlier year there was culb vated for wheat in Connaught above 19 000 acres, and in the later year only 7,000 Of the twelve categories late which the crops are divided, all but to are shown to have been grown either on lose land than in the previous year ores an acroage practically the same and these two are oath, which were cultirated on 20,000 more acres and flex wald-548 Krows on 157,000 acres, sysiast 114 l ooa.

Dr Grimsliam's report contains an appondix dealing particularly with the la quiry made into potato grounds in In-land. The potatoes grown are divided into fifteen varieties—the fifteenth class including some forty species of mise-impertance. Reparate returns are giren of the result of planting each sevent kind in the different clustricts, and the 820,000 acres cultivated for potatoes em thus senarated into distinct testiez grounds for ascertaining the relative erits of all the species. The descrip tion of (1) sound, (2) partially diseased and (3) lost by disease, is affixed in second and another than to the results in each dearate columns to the results in each & triot, and the effect of the whole is said to be in favour of the "champion." The variety, only recently introduced, already eccupies 220,000 acres, or more than on fourth of the whole area sown with petatoes; being especially popular in Numeter, but yet not so well established in the other three provinces. These sail the "magnum bonnes" abov the high eet percentage of sound produce, sai bave forced their way into favour. The reports sont in from the different centres all testify to the prevalence of the per nicious custom of using again and arms the last year's seed on the same ground, and dwell on the oradication of this slovenly habit and the introduction of new seed into Ireland as a certain curfor the evils which have so sorely affected potato growers. In effect the yield or potatoes of all kinds last year amounts! to 3 G tone per acre, against 1.3 toss in the previous year; and it is impossible to consider the season, for it was ted in many mapects, as accounting for the whole of this improvement.

There are, I gather from the police report, 7,092 public houses and 4 425 here houses in the metropolis. During 1889 29,865 persons have been appropriated formationness. Of these 15,196 were made and 18 20 meters. and 13 370 were females. The averages approhension for dennicement steems ever, to be diminishing. Daring the he preceding years the proportion was about 7,500 per 1,000 of the population, where in 1880 it was only G315. Against the proportion was about 1880 it was only G315. in 1880 it was only 6315. Agui victions, whereas in 18:5 there were 1.031 - 25-21 1,031 - Treth

A committee of the original burn commissioners of the New York worl). fair project is canvassing among law ness mon with a view of carrying out the enterprise, and it is said many present ment ment connected with the original morement are offering them every en conregement. P. L. Thicott, the beaker mend to-day that \$3,000,000 was realy !he subscribed for the enterprise as con-inally projected, and that the were organization is quietly going on ar ".