Farm Motor Competition

Winnipeg his a unique record for start-ing hig projects that move to a remarkable and supid accomplishment. If that is a truism, then the motor competition feature of the annual exhibition of Winni-peg can be afely put down as one of the genesise monuments to Winnipeg's genium for discovering the right thing and then

for discovering the right thing and then doing it.

All fairs are able, but there is only one motor competition, and that is out on the prairie word of the Warnipey childration grounds where the longs consent of the rout feature farmer do the kind and quality of work in tilling the soil, which would make add Ginermatic, if he were able to see it, rise in ane frim his tomb of two thoisand years. It is indeed proper that this competition, which attracts world wide interest among two claries of people, firstly, the progressive farmers, and secondly, the progressive manufacturers of agricultural machinery, should be held here on the bosons of that Western prairie whose uncluding miles and broad expanse gives the promise of the future to the bread hungry mouths of earth's next generation.

Four Years Old

Four Years Old

Four Years Old

The farm motor competition of the Winnipeg Exhibition is non in its fourth year. While the competitions of the first and second year were highly increased, yet the unknown quantities of task, and of the machines which were set to do that task, made these two contests largely experimental. The fact that the rules and regulations for the contest this year show only one important deviation from those of last year, namely, the method of measuring cylinders, is an evidence that the competition has now reached that perfectly form which will make it of the highest cluest by value to makers and users at ke. Each year has seen from twenty to their, tractors out on the prairie section provided by the exhibition, each machine turning up its portion of the virgin sed in a steady and desperate effort to tear it up faster and to quite overshadow the himshe trained of the field of an object lesson in Guentsch century progress.

The entres for the exhibition of 1911 show that an increased interest is being taken each year in this unique event and the field at Epsom a month age, when My Lord Derby's classic was run. The engines will be

My Lord Derby's classic was run. The engines will be diveded into four classes. There will be three classifications of gasoline engines gauged upon piston displacement of 300 cubic feet or less per minute, 300 to 360 cubic feet per minute, and 300 and over cubic feet per minute. The fourth class is for that rapidly growing variety in internal combustions engines that utilize baser oils than gasoline for their fuel There will be three classes for atrain enginessistic and the configuration of the configuration of the configuration of the combustion enginessistic attachment of their fuel There will be three classes for atrain enginessistic and the configuration of the configu

will be three classes for steam engines which are also divided upon a classification obtained by occuring a rela-tive, factor upon piston displacement and holler pressure.

Cost is Great.

The owner of every egime entered in this contest faces an expenditure of thousands of dollars before his machine gets through with its allotment of acres and yet the only tangible token that success carries with it, is a gold, silver or bronze medal. The traction engine race at the exhibition is probably the keenest example of amateur sport in its class that can be found any where in the world and yet, after all, commercialism is behind the entire venture.

The value which is gained by the winner this trophy was exemplified in a striking

way a few weeks ago at a large dinner given by the members of the Winnipeg Advertising club and at which the advantages of a promisent traction form was the guest of honor. The sales manager made a speech and gave very interesting details of how the besiness of his firm shad been built up by advertising. He displayed the literature which had been used and the one noticeable thing which was hikzoned with every aid of type, illustration and color, wherever it could be placed, was the announcement that their firm had som the gold medal of Winnipeg in the exhibition's motor competition. That announcement had sold more machines for them than any other thing and, in the hope of gaining the privilege

The entries are to be glassified as

minute and over

t have 'd'. Kerwene Engines, all sizes
(The pistun displacement to be cal-



of making that announcement and the equally valuable privilege of proving their metal before the inquiring eyes of the thousand keen-witted prairie farmers, makes the manufacturers of farm tractor-sulling to go to any reasonable expense in this competition.

Good Judges Needed

But it is not only the gold medal that is worth while in this competition. The results of the former tests have proven another thing, and that is that it takes a careful and keen judge to distinguish be-tween the relative merits of nearly all the machines placed in the competition. They will always do the work and do it so well that each exhibition at Winnipeg

enlated on a basis of a piston speed of 70 feet per minute and to be equal to the total piston area in square feet multiplied by 700.)

by 700.)

For Steam Engines

Where A. Pistón area in sq. ft. P.—
Boiler pressure and \$50 is taken as a
standard speed.

Ax 150 x P.

 $\Lambda \propto 450 \times P$ over 60 and under 100 500

A x 450 x P Class (g) =100 or over

set forth, together with the number of points scored, that it was the only entry in the class. Should the judges find the entry data inscenrate in any par-ticular; they may, at their discretion, rule the engine out of the contest.

Conditions

The fuel shall be that furnished by the

The last shall be that turnered by the Exhibition Association at current priess at Winnipez, approximately;

Gaseline, 20 cents per gallon of 277 cube inches; ketweene, 14 cents per gallon of 277 cube inches; soft coal, 88,50 per tun of 2,000 lies; wood, 81,50 per cord.

per cord.

Each competitor must have sufficient staff for the care and running of his own entry. Two men only, except observers, will be allowed on the steam engineer, and one a forman. Two men will be allowed to start the internal combustion engines; after starting, one man only, except observers, will be permitted on the engine. If more men are needed the engine will be penalized 10 points for each man. No other person to be allowed on or close to the engine, and the same operators must handle the engine, and the same operators must handle the engine will be to. One man only will be allowed on the plows.

Each motor shall be allotted a certain

Each motor shall be allotted a certain space on the grounds, where the motors shall be exhibited at all times except when being tested.

Tests

The tests will comprise brake-test, plowing test and such other tests as the judges deem essential. The plows, belts, chains, water-tanks, a 4-hour recording dynamoneter of capacity sufficient for their engines, with sufficient charts and such other things as may be required during the tests are to be supplied by the contestants.

The rules of the Position of the Position of the contestants.

during the tests are to be supplied by the contestants.

The rules of the Province of Alberta with regard to boilers and engines shall govern the pressures, etc., allowed. All instruments, including dynamometers, shall be deposited with the judges on the arrival of the engines on the exhibition grounds, for testing, and shall remain in their procession until all tests are completed. Provision shall be made so that a standard steam gauge can be applied to all boilers during the test. Any engine failing to complete any test shall be disqualified.

Contestants are to be prepared to basist the judges and their observers in taking dimensions, removing parts for inspection, and any other work that may be necessary for a complete inspection and test, and each competitor is asked to appoint one observer, whose duty shall be to check the firel, water and other data taken by the

to check the Incl., water and other data taken by the official observers. No observer will be appointed to check the data taken on the engineentered by the firm he represents, but will be chosen by lot to check the data on other engines. His duties will be merely to ascertain that a data is correct and to certify to that effect by his signature on the official observer's card.

Brake Test

Brake Test

Brake Test

The brake test shall consist of a twohour economy test. During this test
the engines are to run at their greatest
load consistent with economy. Competitors will be allowed fifteen minutes
after they have lined up to the brake to
try out their engines, and to state the
amount of load they wish to carry.
After the competitor has stated the load
he wishes to carry the operators will
keep the brake as near that load as possible
for two hours, and no change will be made.
Careful measurements of the fuel' and
water used will be taken, and the condi-



Tractor Palling Eight Botto The Motor Competit

gin prairie.

The motor competition of Winnipeg has been, since its inception, under the supervision of Professor A. R. Greig of the Saskatchewan University, and to his mechanical genius and painstaking attention to the details observance is due the world-wide 'respect that is held for his decision. Every year has seen at least one competitor in this competition who has shipped his engine from a foreign governments have been sent under official instructions to watch and report upon the test.

Prizes shall consist of:
First prize, gold medal; second prize, silver medal; third prize, bronze meglal.
All entries must be accompanied by an affidavit that the information therein is true and that the engine in question is from their regular stock, not being built specially for competition. A blue print, or photograph of blue print, or the boiler, with the approval stamp of the Whertz inspector thereon, must also accompany the entry.

Are firm or individual shall content to the state of the

Any firm or individual shall not enter more than one engine in each class unless the engines be radically different in construction. In all classes where there is no competition a diploma of award only may be given, upon which will be

effective will all the two will de will de measur fuel are Plow of five by the any kir of plow by the j will be

poll. of the plowed acre; replenis judges two-hor plowing engine plowing engine.

Desig head w of the v dust-proparts, sfuel and out the case of and sto handling of work. proporti of the a struction of lubri

It is agreed engines of the s of the s as those Only su allowed ordinary may lin engine v a fair t their dy to such t