November 22

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MAIL CONTRACT.

MAIL CONTRACT.

S FALIED TESTIDEES addressed to the Postinaster General, will be received at Ottawa until Noon, on Friday, the 21st December, 181 Mails on a proposed Contract for four years as required each way, between Peterboro Post Outmater General's pleasure.

Frinted notices containing further increase the proposed Contract for the Post Outmater of Contract and the Post Office of Peterboro. C. ADDERSON.

Post Office Department.

Post Office Department, Mail Service Branch, Ottawa, 7th November, 1917.

#### IF YOU DON'T FIND IT, WRITE US

Occasionally readers of Farm nd Dairy wish to secure the ad-reas of manufacturer of farm r household exact the second of the second of the second of the ot about the second of the second time our Advertising Dept. till be pleased to give you any in-mation of this nature. Write a freely.

ADVERTISING DEPT. FARM & DAIRY PETERBORO, ONT.

### More About the Light Farm Tractors

A Comparison With One Hundred Acres of Crops-By Louis Simpson

HE previous articles upon the use created such a live interest in per day. So across certain agricultural circles that the Drilling, \$15 tractor with 12 x 8 Farm and Dairy with nformation.

The investigations that were the original cause of the previous articles are being continued and much valuable information is being collected, with Mowing, 2 horses, 5-foot mower, the hope that eventually the farmers of Eastern Canada may be able to secure the services of a light farm tractor, built specially to meet the re-quirements of the country they have quirements of the country may not to cultivate and of the crops they find to be the most profitable to grow.

The writer has had the privilege to

The writer has had the privilege at the read a comparison of the cost in the read a comparison of the cost in the U. S. A. of the field work required to Mowing, 8-16 tractor with two 5plow, cultivate, seed and harvest the crops off 100 acres of land, in one case using horses and in the other using using horses and in the other using livery rake, 15 acres per day, an 8-16 tractor together with a reduced Loading, 8-16 tractor with wind-The land was number of horses. cropped as follows:

50 acres under corn.

30 acres under grain.
20 acres under hay.
The horses kept in the first case the noises are in the star were six work borses and one colt. 50 acres corn ... 51.08 For comparison, one 8-16 tractor was 30 acres grain ... 9.00 For comparison, one 8-16 tractor was used and two work horses. The time taken for each operation when using horses and when using tractor and horses is given for facility of comparison side by side.

50 Acres Corn.

Plowing-4 horses 16 in. gang -4 acres per day of 10 hours. 12.50 Disking-4 horses 8-foot disc harrow—15 acres per day .... Harvesting—3 times, 3 horses, 3 section harrow—30 acres per

Planting-2 horses check row planter 12 1-2 acres per day ... Cultivating (4 times) 2 horses 1 row cultivator-10 acres per

der, 8 acres per day .....

Total days of 10 hours or 1,450 1/2 H. P. hours .....

Plowing-8-16 tractor and 2 14in. plows=5.60 acres per day 10 hours Note: If 3 14-inch plows can be

used, then 8.40 acres per day, requiring 6 days. Disking and Harrowing-In one operation. 8-16 tractor, 8-foot disc harrow with a 2 section

bag following, 20 acres per day Harrowing twice, 8.16 tractor with 3 section harrow—35

binder, 8 acres per day ..... Total days of 10 hours-44 3-4. . 44.75 30 Acres Grain.

Disking twice, 4 horses, 8 foot harrow, 15 acres per day

Harrowing, 3 borses, 3 section

harrow, 30 acres per day

Drilling, 3 horses, 12 x 8 drill, der, 15 acres per day .....

Total days of 10 hours or 330 H. P. hours .....

Double disking and harrowing in one operation. 846 tracter with 8-foot tandem harrow and 1.50

Total days of 10 hours, 4 1-2 ....

20 Acres Hay. to Raking, 2 horses, 8-foot side delivery rake, 15 acres per day... Loading, 2 horses, 6-foot loaders, 10 acres per day... 2.00 Total days of 10 hours or 110

H. P. hours ...... 5.50 Days. foot mowers, 20 acres per day 1.00 Raking, 2 horses, 8-foot side derow loaders, 13 acres per day. 1.50

Total days of 10 hours ...... 4.00 Summary.

Tractor & Horses. Horses. 44.75 The time 20 acres hay ...... 65.58 53.25

But in the above comparison the time allowed the horses for actual work in the field is 10 hours per day. Seldom do horses give continuous hard work for longer than 6 hours per day. Extending the time upon a 6 hours a day basis the following re-Days.

sults: 60.75 50 acres corn ..... 85.10 30 acres grain ...... 15.00 20 acres hay ..... 9.16 5.00 70.25 109.26

days

20.00 That is, without operating the trac-tor more than 10 hours per day (it is 6.25 often possible to operate longer hours when circumstances make able) there was a saving of 39 days in 51.08 the time required to plow, cultivate, Days, seed and harrow 100 acres of land cropped as stated. This 39 days is a reduction of no less than 35 per cent. upon the time hitherto required. is more than probable that this saving may be enlarged because it is possible that one, if not two, of the cultiva-tions given corn may be undertaken

by using the tractor, and there are other possible economies, when trac-tors are available, whereas with horse traction the "possible" seems to have been already arrived at. The report 3.00 closed with the following remarks that

are well worthy of reproduction:
"On any farm, even with ample
horses to take care of the work,
seasons are sometimes against the farmer. Good spring plowing or seeding weather may be of short duration, with a result that not all the acreage planted is cultivated. Again, a day gained in the harvest is oftentimes of 6.25 far greater importance than the \$1.50 in labor saved. With a tractor on the job, you can work 24 hours a day, if

it is necessary to take advantage of the weather." It is claimed that the farmers of the H. S. A. lose millions of dollars annually because their plowing, culti

vating, seeding and harvesting cannot be done just when it should be done. There is a right time for every work and a tractor enables the farmer to take up the work in its order, to complete it in a short time and do everything in its proper season. The

(Continued on page 8.)



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