taining similar soil. These two are manured every other fall, before seeding, at the rate of 14 tons per acre. Thus the same soil is treated each year as pas ture, fallow and fall wheat, and we can compare

In this table are given the total rainfall for seven months (May to December), the drainage from each, the soluble matter washed out from each, and the quantity of nitrogen, principally in the form of nitrates.

Month.	Crop or Fallow	Rainfall, Ibs. per acre	Drainage, Its per	Solids, Ibs per	Nitrogen, 13s. per
Мау	l'ermanent pasture.	, , ,8, ، ,	بديديد	1924	.6340
May May	Bare fallow.		6 1920	2705 1011	9455 7534
lune		\$2.6172	0 /420		
July		17.7061			
August	litte tallow	45 48-1	ودره و	5'1	\$دې.
	liare fallow.	44.0751	4.4220		.1744
October	Bare fallow.	47 403×	14 11/10	2866	4028
November		58. 1782	14.0300		2-4 900
December .	Fall wheat ,		4 2554	204	. 3505
May to Dec					
	basture	252.5530	12-1220	1922	ంక్షిస్తు.
May to Dec.	Hare fallow.		58.9380		4.0854
May to Dec	Fall wheat		7 55 4	1236	. 5039
				•	2-77

The above rainfall represents a fall of 15-574 inches. The drainage from the permanent pasture was 3.4 per cent, of the total rainfall, that from the bare fallow 16.4 per cent., and from the fall wheat 2.1 per cent. In England for ten years the rainfall amounted to

an average of 31.451 inches, and the drainage to about 45 per cent. Under such conditions there is much greater loss of nitrates by drainage, since the period of nitrification is much longer and the washing continues summer and winter. From a wheat field, unmanured, the average annual loss was ten to twelve pounds; from unmanured and uncropped land as high as 41.81 pounds per annum (Lawes and Gilbert).

From a glance at our table we can draw conclusions similar to those elsewhere obtained, viz:

The loss of soluble ingredients from a bare fallow exceeds that from a field under crop.

There is loss from a wheat field after maturity.

The advantages gained by fallowing may be greatly

modified by loss in drainage water.

A growing crop tends to hold the nitrogen in the soil.

The fall washings are greater than those of summer. The following may be practiced either to clean dirty land or to rest exhausted land: In the former case, to avoid excessive loss by drainage, recourse may be had to roots thoroughly cultivated. To im-prove an exhausted land, instead of allowing the land to lie fallow a whole year, a green crop might be plowed under, thus keeping all the nourishment in the soil, increasing it by drawing on the air and sub-soil, and by decreasing the drainage. For green manuring, red clover, rye and buckwheat are specially manufung, fed clover, sye and backwheat are specially recommended; other crops, such as rape, white mustard, scarlet clover, etc., are also used. These should be plowed under just before full blossom.

On the whole most soils will improve best under a

combined treatment of green manuring and fallowing, where resort is necessary to such treatment.

A Scheme of Organization for Farmers.

BY H. GLAZEBROOK, SIMCOL ONT. (Concluded.)

By the managing committee making arrangements for the purchasing of all the plaster, salt, commercial fertilizers, etc., required by the whole county, in the following manner: Whenever the managing committee deem it expedient to purchase plaster, salt or commercial fertilizers, the president of the managing committee should instruct the central secretary to write to the secretary of each club in the county and request to the secretary of each club in the county and request him to make a report before a certain day of the quantity of plaster, salt, or commercial fertilizers required by the members of his club. On receipt of such letter the secretary of each club should immediately call a meeting of the club and ask the members what quantities they require, and at once report the quantities on a post-card to the central secretary. As soon as the reports from all the clubs have been received, and it is known what quantities are rebeen received, and it is known what quantities are required for the county, the president of the managing

committee should instruct the central secretary to incommittee should instruct the central secretary to in-sert advertisements in the leading papers in the Do-minion, asking for tenders with samples for the quan-tities required. He should submit such tenders and samples as he may receive to the managing committee, who should decide which to accept. The central secretary should then write to the secre-tary of each club, informing him of the price of the plaster, salt, or commercial fertilizers, and requesting him to collect from the members of his club the amounts which the quantities required by them come amounts when the quantities required by them come to at that price, and to deposit it in the bank to the joint credit of the president and treasurer of the managing committee. As soon as the money from all the clubs is deposited in the bank the central secretary should write to the person whose tender the manag ing committee have decided to accept, and request him to deliver the amount to the order of the bank in such quantities to the various railway stations in the county as may be most convenient for the different clubs.

In fruit trees and seeds the same system may be adopted, except that in these articles, of course samples could not be asked for, and all the managing committee could do would be to obtain the best tender they could, consistently with making sure of the respectability and good business standing of who-ever they decided to deal with.

No doubt other means of promoting the object of the organization in the counties would be suggested

as time went on.

8th. That the object of the organization should be farmers' Convention may deem expedient. The expenses of such an organization as suggested would be of two kinds—general and local. The general expenses would consist of those incurred in each county, which would be, 1st, The furnishing of the central office, which should consist of a good map of the county to enable the central secretary to point out the way to the house of any member to any one wishing to know it. A large number, say 200 or 300 glass fruit jars to hold samples of grain sent by members, each being labelled with the name and address of the owner of the sample. A large number, say 200 or 300 small wooden boxes holding about a peck each, to hold samples of corn in the ear, potatoes or other roots sent by members, each being labeled with the name and address of the owner of the sample. A number of shelves all round the room to hold the sample. ple jars and boxes, on which shelves they should be kept arranged in proper order—that is, all of one kind together. A large common table to hold samples of manufactures, models, etc., sent by manufacturers. A large table to hold files of the principal agricultural and other papers. A large black board for the central secretary to post the prices of all kinds of grain and other produce in the principal markets, and a large blank book for the central secretary to keep a register in of articles wanted, arranged under the headings of farms, horses, cattle, sheep, pigs, hay, straw, grain, and sundries, in each case giving a description of the article wanted and the name and address of the person wanting it. A large blank book for the central secretary to keep a register in of articles for sale, arranged under the headings of farms, horses, cattle, sheep, pigs, hay, straw, grain, and sundries, in each case giving a description of the article for sale, and the name and address and the location of the house of the person having it for sale. A large blank book for the central secretary to keep a register in of farm hands and domestic servants want ing employment, in each case giving the names and addresses, qualifications and references. A large blank book for the central secretary to keep a register in of employers wanting help, in each case giving the description of help wanted and the names, addresses and location of the houses. A large blank book for the central secretary to keep a register in of the daily prices of all kinds of grain and other produce in all the principal markets. A desk and stool for the central secretary to use towrite at. A stock of stationery for the central secretary to use in the correspondence of the office, and a number of chairs or benches for the genoffice, and a number of chairs or benches for the general council and the managing committee to use at meetings. 2d. The rent and taxes of the central office. 3d. The salary of the central secretary. 4th. The paying for advertising in the papers when necessary to do so, and for printing membership tickets and service tickets for all the members in the county. 5th. The expenses of the president of the managing committee to and from the farmers' convention.

A subscription of 50 cents a year from each of the farmers in the county would be amply sufficient to meet these expenses in each county.

The local expenses would consist of those in each club, which would be the paying for fire and lights and what stationery and postage were necessary for the ecretary to use in the correspondence for the

A subscription of fifty cents a year from each of the members of the club would be amply sufficient to meet the expenses in each club.

Therefore the annual membership fee should be one dollar, which each member should pay to the treasurer of his club at the commencement of the year, and for which he should receive a membership ticket as a receipt, and to show the central secretary in case of wishing to claim his assistance in any way, to which the would always be entitled on producing such ticket.

The treasurer of each club should deposit one-half

of such membership fees, or 50 cents for each mem-ber in the bank nearest to the central office, to the joint credit of the president and treasurer of the managing committee, so that none of the general fund could be withdrawn from the bank except by a cheque signed by the treasurer and countersigned by the president of the managing committee. The central secretary would of course have no control of the funds, but would have to apply to the president of the managing committee for any sums required for expenses of the central office or anything else.

In order to establish the organization suggested above in any county, it would be necessary in the first place that a few of the most prominent and energetic farmers in the county should form themselves into a provisional managing committee for the county, with provisional managing committee for the county, with a president and secretary, merely to hold office until a proper managing committee could be elected, as sug-gested, and to let it be known by means of the local papers that the secretary of the provisional managing committee was prepared to receive and register the names and addresses of the presidents, vice-presidents, secretaries and treasurers of all clubs formed in the school sections in the county; in the second place, that a few of the most prominent and energetic farm-ers in each school section in the county should induce ers in each school section in the county should induce all the farmers living in the section to meet at the school-house and elect a president, vice-president, secretary and treasurer and that the secretary in each case should at once send the names and addresses of those el-cted, with the name of the township and the number of the school section to the secretary of the provisional managing. section to the secretary of the provisional managing committee, who should register in a book the names and addresses in the order received, and as soon as clubs were established in all the school sections in the county, should write all the presidents to meet wherever the provisional managing committee deemed expedient, which would end their functions, as when the presidents of the clubs met they could proceed to carry out the arrangements suggested.

Report of the Judges on Prize Farms for 1886.

(Continued from June.)

On the morning of June 24 a slow ride of 3234 miles through the "pine stub" country on the Georgian Bay & Lake Erie Division of the G.T.R, brought Woodstock, so highly fovored by rich agricultural surroundings, and and miles may be a surfaced to the country of the study of the surfaced to the surfaced roundings, and 221/2 miles more on the same line land-ed in Stratford, on our own Avon, and noted amongst other things for the home of the Canadian Shakes peare of the cheese interest. Twenty-four and one-half miles on the Buffalo & Goderich branch, running through a country of much fertility and strong soils, brought Sea-forth, where we were met by the junior Mr. Dickson, to be told that their farm had been withdrawa from the competition. We had just time to catch the re-turn train to Guelph, on which for a few hours we had ample time to chew the cud of reflection, and to say ampie time to chew the cud of reflection, and to say angrily, mentally, that things in this world might often be managed better, which is very likely true. Like the old Roman, that evening we felt like writing we had "lost a day." The 25th was spent at Mosborough, while grateful June showers were watering the thirsty ground. WOODLANDS.

On the 26th we drove to the "Woodlands," owned by Mr. Walter Sorby, Guelph. Only a part of the farm, to the extent of 153 acres, was entered, of which 133 acres are in Puslinch and 20 acres in Guelph townships. This farm is peculiar in its situation, sit-