

# BOWLING



## Lucky Strike Club

DAILY from 1 p.m. to 11 p.m.

SATURDAYS, all day from 10 a.m.

Open Bowling every Night

MEN! Enter our Elimination Handicap Single Tournament. Ask us about the rules for entry.

PHONE 315J

BILL ANDERSON, Manager

# PLANTS

**TOMATOES** — Bonny Best, June Pink  
**CABBAGE** — Sweet, Spanish  
**FLOWERS** — Mixed Asters, Zinnias, Alyssum, Violet and White Nicotines  
Mixed Petunias and Double Petunias

**W. HODGE STEWARTTOWN**

Home on Saturday, 21st and 24th of May. After Six other days.

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## NEWS AND ITEMS OF INTEREST TO HALTON FARMERS

### SOIL BUILDING WITH SOD CROPS

(continued from last week)

#### Improved Physical Condition

The physical condition of both heavy and light textured soils is greatly influenced by their content of organic matter or humus. When organic matter goes out, soil breakdown sets in. Sufficient, active, organic matter is necessary to give our heavy soils what we call a good structure.

A soil has good structure when the particles, or grains, are grouped tightly together in clusters, or granules. Such a soil has a "granular structure." Farmers know that a granular structure is good. You can find this granular structure if you take a handful of topsoil from beneath an old sod; the granules look like bread crumbs, and in fact we speak of this as a "crumb structure." Such a "crumb structure" is the most desirable physical condition; it provides plenty of pore space in the soil, through which surplus water can drain out, and air can get into the plant roots. When the humus is worked out of the soil, these crumbs are broken down and the soil particles become separated by raindrops falling directly on the surface. The finer particles run together, clog the pores, and form a seal over the surface that prevents the ready absorption of surface water. When the rainfall is prevented from soaking into the soil, it accumulates on the surface, or forms surface run-off, carrying with it some of the soil itself. This is one of the direct causes of sheet erosion. It is also one of the indirect causes of the failure of tile drains to work effectively in heavy soils.

The destruction of the crumb structure of heavy soils is indirectly responsible for their lowered productivity. This is recognized elsewhere as well as here.

A recent report from some studies in Ohio points out that on much of the most fertile land in that state, crop yields are limited by poor physical condition of the soil. The authors of the report write: "The future of agriculture of many of our soils depends largely on how well favourable structure can be maintained or increased." With loss of humus and the break-down of the crumb structure, the soil becomes more plastic and sticky when wet, puddles more readily if worked at too high a moisture content, and on drying, bakes into massive blocks, or large clods, which are pulverized only with great difficulty. Using more powerful tillage machines does not really solve this problem. The true solution lies in restoring a desirable granular, or crumb-like structure of the soil, through "building-up" and maintaining humus and fertility.

In the sandy and lighter textured soils, improved physical condition, (granular structure), can be brought about by reducing the amount of cultivation, and greatly increasing the humus content of the soil. Thus the problem of improvement of physical condition in both light and heavy soil goes back to the problem of soil organic matter maintenance.

#### FERTILITY SUPPLY

A third important factor in the soil-building program is the provision for an increasing supply of available plant food in the soil. Where there is an abundance of livestock manure available for the land, this problem is much simplified. Where crops are fed to livestock on the farm, about three-quarters of the nutrients removed from the soil can be returned to the land in the form of manure; thus manure has a two fold value in supplying both nutrients and organic matter. However, its effectiveness in supplying nutrients is due more to the quantities used, in even normal applications, rather than a high concentration of plant food in the manure. Also, it should not be overlooked that manure made from crops grown on poor soil will be poorer in quality, and lower in plant nutrient value, than manure made from crops grown on good land.

If the fertility supply is to be built up rapidly, additional nitrogen and minerals may need to be provided from sources, other than farmyard manure. Certainly, soil fertility must be maintained if the organic matter content is to be kept at a desirable level. Thus, in addition to the nutrients supplied by manure, the amount of other fertilizers used in the rotation will have a significant bearing on the maintenance of organic matter in proportion to the annual losses from the soil. Anything less than this must lead, inevitably, to bankruptcy of the land.

#### DESIRABLE SOIL MICROBES

A healthy soil is one that is teeming with millions of micro-organisms, or soil microbes, busy decomposing soil organic matter, making humus, and releasing available plant food. Fresh supplies of

active organic matter, nitrogen, and mineral nutrients, are necessary in a soil to provide food and energy for the desirable types of soil microbes.

When a soil becomes depleted of its organic matter and fertility, the population of its beneficial micro-organisms decreases, and the way is opened for more resistant and less beneficial types to flourish. While we cannot see many of these organisms without the use of a high-power microscope, sufficient is known about their activities in releasing fertility to convince us that without them the soil would indeed be dead. Thus the microbial population of a soil rises and falls with the rise and fall of organic matter and fertility. Furthermore, it is now known that soil microbes have a profound influence on the development of the granular or crumb structure in both light and heavy soils. We cannot ignore this vital part of the soil life in the soil-building program. What will be good for the soil microbes will be equally beneficial to the crops we wish to grow.

(concluded next week)

### MAE WINGFIELD AND FRASER McNABB NEW PRESIDENTS OF NORVAL JUNIORS

The Annual Meeting of the Norval Juniors was held at the home of Jessie, Mae, and Gordon Wingfield, on Tuesday evening of last week. This Junior Farmer organization has now been in existence for some fifteen years and has built up an enviable reputation over the years. Harold Baker, who has just completed his third year and who is acting as a temporary assistant to the Agricultural Representative for the counties of Halton and Peel, was the guest speaker. He took as his subject "Personality", and made an excellent impression on the young people in attendance.

The election of officers for the coming twelve months resulted as follows:—

#### Junior Institute

President—Mae Wingfield  
Vice Pres.—Isabel Currie  
Sec.—Treas.—Jessie Wingfield  
Directors—Marion Currie, Jean Chester and Frances Barnes  
District Director—Isamye Keen  
Plantist—Jean Chester  
Auditors—Ruth Barnes and Betty Van Vliet

#### Junior Farmers

Hon. Pres.—J. E. Whitelock  
Past Pres.—Neil Van Vliet  
President—Fraser McNabb  
Vice Pres.—John McClure  
Secretary—Howson Ruddell  
Treasurer—Floyd Bridgen  
Directors—John Currie, George Wilson, Bill Ostrander  
Auditors—Craig Reid, John Bird

### OFFICIAL OPENING—HALTON COMMUNITY PARK

The official opening of the Halton Community Park at Lowville for 1949 is scheduled for Monday, June 6th. This will mark the turning on of the flood lights which are now in the course of installation.

At a meeting of the County executive of the Halton Federation of Agriculture, held in Milton last week, plans were laid to make this a banner event. The programme will include a number of baseball games between outstanding teams, both in the afternoon and evening of June 6th, and also a wide variety of other programme for the evening. Further announcement will be made later, when plans are completed by the various committees in charge.

### TWILIGHT BARN MEETING SCHEDULED MAY 27th

Geo. M. Clemons, Secretary-Manager of the Holstein-Friesian Assn. of Canada, is to be the guest speaker at the Twilight Barn Meeting being held at the farm of H. W. Hays, Trafalgar, on Friday evening, May 27th. Mr. Clemons will speak on his recent trip to Italy in the interests of the Holstein Breeders of Canada. The programme will also include judging competitions, etc. A similar meeting was held at the Hays' Sales Arena a year ago, with well over 200 in attendance. The 1948 event was such an outstanding success that the breeders voted unanimously for a similar type meeting in 1949. Geo. Drennan, Holstein Fieldman for this section of Ontario, will also be in attendance.

### HALTON JUNIORS TO HOLD ANNUAL JUDGING COMPETITIONS AND ACHIEVEMENT DAY

Saturday, June 4th, is the big day for Halton Junior Farmers and Junior Homemakers. According to Stanley Jay, Secretary of Halton Junior Farmers, this will be the day for their annual Live Stock Judging Competitions and the Achievement Day for the Junior

# CARROLL'S

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- SILVER RIBBON Tomato JUICE 2 23c
- QUAKER MUFFETS 2 23c
- ROMAR COFFEE PKG. 28c, 53c
- DANDEE TEA PKG. 38c, 75c
- NATURE'S BEST TOMATOES 2 29c
- Solid WHITE TUNA 7 45c
- BLUE BACK RED SALMON 3 37c
- Sieve 3 CHOICE PEAS 2 35c
- AYLMER PRUNE PLUMS 2 25c
- SWEET MIXED PICKLES 45c
- Clark's MUSHROOM SOUP 2 15c
- DRINK FRESHIES PKG. 5c

## TOMATO SOUP

- CAMPBELL'S "SPECIAL" 2 TINS 19c
- HEINZ PORK & BEANS 2 33c
- SWIFT'S CLEANSER 3 26c
- PARD DOG or CAT Food 2 27c
- Old English MOTH DED 3 33c
- MONARCH FLOUR 1.59
- Ogilvie's GINGER BREAD 28c
- NABOB COFFEE 32c, 61c
- OXYDOL NEW LOW PRICES 14c, 35c, 97c
- DREFT NEW LOW PRICES PKG. 34c, 63c
- IVORY SNOW or FLAKES 35c
- CAMAY SOAP 9c, 2 27c
- WIZARD GLASS WAX 49c
- OLD ENGLISH NO RUB Floor WAX 58c, 98c
- MAPLE LEAF Soap Flakes 30c, 85c
- LIBBY'S CATCHUP 21c
- LIBBY'S PEAS 20c
- HEINZ BABY FOODS 3 25c
- McLARENS FREEZ EASY 2 23c
- IMPORTED TOMATOES 1 lb. 25c
- ICEBERG LETTUCE — 5" each 15c
- CUBAN PINEAPPLES — 24" each 29c
- CALIFORNIA ORANGES — 288's doz. 43c
- FRESH CUCUMBERS, RADISHES, ASPARAGUS, GREEN ONIONS, CABBAGE, CELERY HEARTS

## Co-operators Fidelity & Guarantee Association

A cooperative automobile insurance company sponsored by the ONTARIO FEDERATION OF AGRICULTURE and in Halton by the HALTON COUNTY FEDERATION OF AGRIC. Farm people are now clubbing together to check mounting automobile costs by writing their own automobile insurance. For more information, contact Halton Automobile Committee: M. J. Brown, Lloyd Crawford, Albert Hunter, Emerson Ford. R. S. HEATHERINGTON, District Representative

Homemakers. The young men will visit some of the leading live stock farms in Halton, where they will judge ten classes of livestock. Under the leadership of Miss Lucille Barber, County Home Economist, the young ladies will have on display in the Milton Town Hall, some of the articles made in connection with the two projects carried on during the past year. Excellent prize lists have been prepared—the outstanding Junior Homemaker will receive a championship trip to the 4-H Club Congress at Chicago next December—while the two top contestants in the boys section will be awarded a bus trip through the neighbouring states to the south, and to Quebec and Western Ontario. Halton District Women's Institutes donate the championship trip to the Junior Homemakers. JUNIOR FARMER FLOWING MATCH TO INCLUDE CLASS FOR LADIES A new feature of the Junior Farmer Flowing Match scheduled for Saturday, May 28th, is to be a special tractor class for Junior Homemakers under 25 years. The prize list also includes a tractor class for boys 16 years and under—another for plowboys 17 to 19 inclusive, and a fourth for plowboys 20 to 25 inclusive. The two top plow boys under 20 years will constitute the Halton Plow Team to compete in the Inter-County Class at the 1949 International to be held near Grand