



NO LACK of "royalty" in and Sylvia Matheson watch as O'Leary this week. Princess Ann Grey is crowned Miss Queen of the Furrows by last year's winner, Ruth MacDougall. Judging was completed at a variety concert in the High School.

## Queen Of The Furrows Is Crowned At O'Leary

A petite, freckle-nosed brunette was declared Queen of the Furrows for 1966 as part of the O'Leary Plowing Match on Wednesday evening. Mrs. Lawson (Ann) Grey, an attractive mother of three boys and a year old baby girl was one of eight contestants vying for the title. She was sponsored by O'Leary Lions Club.

Mrs. Grey is a homemaker and career girl too. "Between babies" she has worked and is presently working the night-time shift as a nurses aide at the O'Leary Hospital. She is possibly the province's most diminutive stock car racing driver.

A panel of three judges, Mrs. Helen Herring, television's "Today At Home" hostess; Mrs. Fred Osborne, Lone Guide Commissioner and Mrs. Audrey Jenkins, women's editor of The Guardian chose as princesses two students from the O'Leary Regional High School, Sylvia Matheson (sponsored by David Brown Tractors) and Barbara Harris (Miss Knutsford Women's Institute). Last year's Queen, Doris MacDougall of Springfield West officiated at the "crowning", placing the regal robes on the new queen. Judging was based upon poise,

charm, grooming, beauty, manners and intelligence and of course their ability to handle a tractor and try their hand at plowing. Top ploughing honors were scored by Mrs. Lloyd Jelley under the chairmanship of Mrs. L.G. Dewar, included Mrs. Raynall MacNeill, Mrs. Robert Woodside, Mrs. Ralph MacLennan, Mrs. Alton Rayner and Mrs. Marne Kennedy. Awards were made to the three young women by Everett Milligan, representing the Imperial Oil Company, sponsors of the competition.

### FACTS FOR FARMERS



## Aeration Protects Grain In Storage

By GRAEME LINKLETTER  
Engineering Specialist  
P.E.I. Dept. Of Agriculture

Aeration of grain in storage, as a method of preserving its quality and value has a place on every farm where grain is grown. It is a versatile and inexpensive process that offers valuable insurance to the farmer against the hazards of grain heating and moulding and insect attack.

### AERATION PROCESS

The aeration process consists of moving natural, unheated air through the grain at a relatively slow rate, but fast enough to provide one to five complete changes of air in the storage per hour. The principal purposes of aeration are to cool the grain and to prevent the accumulation of moisture that often occurs at the top of an unventilated storage.

### AERATION AND DRYING

Drying is not a method of aeration and an aeration system cannot be relied upon to save a crop that is more than two percent above the safe moisture content for permanent storage. Therefore a clear distinction should be made between aeration and drying. Small grains are usually harvested in P.E.I. at a moisture content that is fairly close to the safe storage limit. An aeration system will usually keep them in good condition.

If a grower produces a large amount of grain, a drier of the bin type using supplementary heat will be justified in addition to the aeration system.

### MOISTURE MIGRATION

When grain is placed in storage in late summer, it is usually quite warm. The grain around the walls cools slowly while the centre of the bin remains warm. The heavier cool air near the walls goes downward forcing an upward circulation of warmer moist air toward the cool surface layers and it can condense there. If it is allowed to continue for a few months the surface layers of the grain may become moldy and crusted.

### METHODS OF AERATION

In the usual aeration system, air is drawn downward through the grain and is discharged directly to the outdoors. This method prevents the condensation of moisture on the bin ceiling which can occur if the direction of air movement is upward. However the direction of air movement is not important if the rate of air flow is high. With an aeration system, the operator has some choice of the temperature he will store the grain. By aerating at low temperatures, the whole mass of grain can be taken down to 35 or 40 degrees F. where the action of molds, bacteria and insects is very low even if the moisture

content of the grain is slightly above the normal safe storage level.

### AERATION EQUIPMENT

P.E.I. farmers who are aerating their grain bins are generally using a purchased aerator consisting of a long tube with air inlets in the lower one-half of it and a small motor driven fan on the upper end. These units can remove local hot spots in the grain bin. They are not as effective as a properly installed aeration system because the inlet area is severely restricted and because the air flow is not uniform throughout the bin.

The proper aeration system would consist of main duct having a cross-sectional area of twice the area of the fan opening and the side ducts may be reduced in proportion. The total open area of the ducts should be 20 times, as large as the fan opening. If it is not, the velocity in the grain must increase greatly as the air approaches the duct and the pressure that is required to produce this is more than the fan can provide. It is recommended that the air velocity in the main duct never be more than 1,000 feet per minute.

The rate of air flow may be as low as 1-50 cubic feet per minute per bushel of grain for the least critical applications or as high as 1-10 c.f.m. per bushel for more rapid and positive action a figure of 1-25 c.f.m. per bushel would be suitable for the average farm installation.

Grains stored to a depth of 10 feet will have a static pressure (resistance to air flow measured in inches of water) of .75 of an inch while grain stored 20 feet deep will have a static pressure of one inch of water. These figures will have to be used when selecting your fan and motor.

Suppose we have a 10 foot high bin to aerate containing 2,500 bushels using 1-25 c.f.m. per bushel we would require an aeration system that would deliver 100 c.f.m. at 1.25" static pressure. Buy your fan from a reliable fan dealer. The fan and motor should be carefully screened to protect the curious or forgetful hand that might enter the bin. This same screen will keep rodents out of the duct system. The ducts themselves should be removable for cleaning.

### OPERATING THE AERATION SYSTEM

Aeration should be started as soon as the bin is one-half full and should be continued steadily for two or three days. Depending on the weather, the aerator may be operated only when the air is 10 to 15 degrees below the temperature of the grain. If the moisture content of the grain is high (above 14 per cent) the aerator should run continuously

until the whole grain mass is down to a low temperature (35 to 45 degrees F.). Automatic controls are available which will provide aeration only under the best conditions.

### TIME REQUIRED FOR AERATION

Aeration involves the slow transfer of moisture from the inside to the outside of the grain kernel at low temperatures, and is a matter of weeks, not days. It should be carried on until a thermometer inserted deep into the grain at various points indicated that the temperature is low or until it is known by test that the grain is very dry.

In the fall with aeration for 10 hours per day the process will take from two to five weeks.

In addition to the aeration system two important additional pieces of equipment are needed. These are a grain thermometer and a grain moisture tester.

Grain aeration must not be confused with grain drying. Mechanical grain drying uses heated forced air and these units start at 4,000 dollars. Even with an expensive grain dryer, a bin aeration system is needed to cool the grain after it leaves the drier.

For more information on this subject contact: Graeme Linkletter, P.E.I. Department of Agriculture, 220 Water Street, Summerside, P.E.I.

## Island Swine Top Average

The estimated yield of trimmed pork cuts is the main basis for measuring bacon hog quality at present. The national average is 78.3, and several Island swine breeders have topped that.

Borden Boswall, Dunstaffnage has had an animal quality with percentage yield of 81.4; A.D. Mutch, Charlottetown RR 1, had one with 79.2 percent; N.W. MacLeod and Sons, Bridgetown had a sow quality with 80.5 percent, all of them over the national average.

Several other animals were close to the average: W.W. Stewart, Charlottetown RR had one quality with 77 percent and Lloyd Jenkins, Montague had one with 77.6 percent.

W.A. Moase and Son, Kensington, had four boars with an average yield of trimmed — 79.9 percent — one had 82.7; Cecil Godfrey, New Wiltshire, three sows quality with average yields of 79.9 percent — the top one 80 percent — Chester Whiteway, Murray River RR had three sows with an average yield of 78.5 — the top one had 80.1 percent.

A.D. Mutch had one animal with an estimated average yield of 79.2 percent in another group.

## Tignish School Holds Meeting

TIGNISH — The annual meeting of the Tignish Regional High School was held in the school auditorium Tuesday evening. Everett Broderick, chairman of trustees, chaired the meeting. The total operation expenses for the school and transportation of school buses totalled \$23,290.

Wilson J. Shea reported for the board of trustees, he said the school year was very successful, he extended sympathy to the family of the late Walter Christopher who was a trustee of the regional high. It was decided to call zone meetings regular during the school year, to help arouse more interest in the duties of each district. The financial problems were discussed.

### GIVES SUMMARY

Ray Malone, principal, gave a summary of the past year's work and spoke of the success of the 22 grade 12 students. Grade twelve has now reached a record enrollment of 35 students.

The road problem came up for discussion. One bus driver remarked that the road he travels is unfit to go on as no repair has been done to it since June.

Secretaries teachers and trustees from each district were urged to meet and see what could be accomplished concerning the road problems and financial tax situation.

## Island News Page

2 The Guardian, Charlottetown, Fri., Sept. 16, 1966.

### SCHOLARSHIPS

## Successful Applicants Announced By Principal

The successful applicants for scholarships and bursaries at Prince of Wales College for the session 1966-67 were announced by Principal Dr. Frank MacKinnon on Thursday following a meeting of the scholarship committee of the College. The winners, their place of residence, and, in the case of entrance scholarships, the school they previously attended are as follows:

Entrance scholarships, \$350 per year for the four undergraduate years: Gary Carroll, Charlottetown, (Prince of Wales College); Elizabeth Cousins, Park Corner, (Kensington Regional High); Barbara Flanagan, Charlottetown, (Prince of Wales College); Carl Herring, Murray Harbour, (Montague Regional High); Evelyn Howlett, Vernon River, (Montague Regional High); Carolyn Ling, Charlottetown, (Prince of Wales College); Heather Ling, Charlottetown, (Prince of Wales College); Doris MacPhee, Belfast, (Montague Regional High); Kenneth Montgomery, Port Hill, (Athens Regional High); Elizabeth Platts, Howland, (O'Leary Regional High).

Prince of Wales College scholarships, \$200 for the 1966-67 year — Rosina Beck, Sherwood; Elizabeth Carter, North River; Wayne Cutcliffe, Fredericton;

Dianne Jones, Pownal; Paulette Jones, Pownal; Catherine MacDonald, St. Eleanor's; Brenda Lee MacLeod, Charlottetown; Dianne MacLeod, Vernon River; Linda Matheson, North Hill; David Raynor, Mount Herbert.

Bursaries, \$125 for the 1966-67 year — Linda Darrach, Carleton Siding; Blair Herring, Charlottetown; David Hume, Murray Harbour; Lana Lewis, Charlottetown; Karen Lee MacLeod, Vernon River; Ronald Rice, Parkdale; Linda Thomas, Howland; Peter Vass, West Royalty.

## W. G. Barbour Announces Expansion

It was announced yesterday morning by Charlottetown Businessman, W. G. Barbour, that the Island Motor Lodge will undergo an expansion program this winter.

Mr. Barbour said that plans for the expansion are still being formulated, but it is expected that construction will begin as soon as plans are finalized and the new units will be ready for occupancy in time for the 1967 tourist season.

The motel now contains 24 units and the planned expansion will add an additional 20 to 24 units. The new wing will be added on the back of the present building extending into the centre of the Pownal, Grafton, Kent and Queen Street block.

## Scholarships Announced

The award of Entrance Scholarships and bursaries, valued at over \$60,000 to 131 students was announced by the Scholarship Committee of Mount Allison University.

Students from Prince Edward Island who have received scholarships are: William Elias Bishop, Summerside; Ann Eugene Marion Cauty, Charlottetown; Sandra Dawn Clark, Borden; Donald Layton Crossman, Carleton Siding; Lois Doreen Frizell, Summerside; Mary Catherine Gosbee, Murray Harbour; Douglas Harold Hickox, Montague; Joyce E. R. Lowther, Charlottetown; Lynn Neda McClure, Murray Harbour North; Barbara Joanne MacLeod, Borden; Nancy Lee Manderson, Miscouche; Ronald David Nicholson, Carleton Siding; Edna Jeanie Ross, Dundas Centre; and Harold Michael Sheen, Summerside.

David Langley, Summerside, was among the 19 students who received bursaries upon entering Mount Allison for the first time.

## CHEVRON STANDARD LIMITED requires a LAWYER

A position is available for a recent law graduate interested in career employment with a subsidiary of a major international oil company engaged in exploration and producing activities in Canada. Work will involve land, government relations and legal phases of the oil and gas industry. Work location will be either Calgary or Edmonton, Alberta.

Attractive starting salary and full employee benefits are offered. Please submit written applications giving full details of age, education and experience along with your phone number to:

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<h3>JEANS</h3> <p>Girls' corduroy lined jeans. Boxer style. Plaid cotton flannel lined. Assorted colours. Sizes 3-6x.</p> <p>SPECIAL</p> <p><b>1.29 PR.</b></p>	<h3>JODHPURS</h3> <p>Children's cotton corduroy jodhpurs with shoulder straps, elastic back waist. Colours grey, blue and red. Sizes 2-4-6.</p> <p>SPECIAL</p> <p><b>1.29 PR.</b></p>	<h3>BLOUSES</h3> <p>Girls' long sleeve tailored blouse, 100% combed cotton, two way collar, machine washable. Sizes 7 to 14. White only.</p> <p>SPECIAL</p> <p><b>1.17</b></p>
<h3>OVERALLS</h3> <p>Children's cotton corduroy overall, bib style with shoulder straps, assorted colours. Sizes 2-3-4.</p> <p>SPECIAL</p> <p><b>88c PR.</b></p>	<h3>SLIMS</h3> <p>Girls' fashionable stretch slims, double knit, half boxer waist, foot strap, washable, sizes 3-6x. Colours brown, red, royal and charcoal.</p> <p>SPECIAL</p> <p><b>2.88 PR.</b></p>	<h3>SNO-SUITS</h3> <p>Children's 100% nylon sno-suits, quilted jacket, roll under hood, zipper closing. Colours red or blue, jacket with black sno-pant. Sizes 2-6x.</p> <p>SPECIAL</p> <p><b>11.88</b></p>
<h3>BLANKETS</h3> <p>Soft fleecy flannel, machine washable, white background with design. Size 30 x 40.</p> <p>SPECIAL</p> <p><b>88c</b></p>	<h3>JEANS</h3> <p>Girls' lined plaid cotton jeans, half boxer waist, assorted plaids. Size 3-6x.</p> <p>SPECIAL</p> <p><b>1.47</b></p>	<h3>JERSEY'S</h3> <p>Boys' fancy turtle neck long sleeve Jersey. Zippered closing at neck. Assorted shades. Sizes 4-6x.</p> <p>SPECIAL</p> <p><b>88c</b></p>



**SNO-SUITS**

Children's nylon blend sno-suits with attached hood, quilted lining. Guaranteed machine washable. Sizes 2 - 6x. Assorted colours. Zipper closing.

SPECIAL

**9.88**



**TROUSERS**

Boys' flannel dress trousers. Half boxer style, zipper fly with two button closing at waist band. Sizes 3-6x. Colours grey and charcoal only.

SPECIAL

**1.47 PR**



**BLOUSES**

Girls' short sleeve 2 way collar style blouse. 100% combed cotton, machine washable. Colours white, yellow, blue, pink. Sizes 7-14.

SPECIAL

**88c**

<h3>PYJAMAS</h3> <p>Girls' tailored cotton flannel pyjamas. Long sleeve, buttoned front, assorted shades and patterns. Sizes 3-6x.</p> <p>SPECIAL</p> <p><b>1.17 PR.</b></p>	<h3>PYJAMAS</h3> <p>Boys' cotton flannel pyjamas, long sleeve, buttoned front, assorted patterns. Sizes 3-6x.</p> <p>SPECIAL</p> <p><b>1.17 PR.</b></p>	<h3>CAPS</h3> <p>Boys' corduroy cap with under the chin strap. Colours grey, navy, brown. Sizes 5-8-1.</p> <p>SPECIAL</p> <p><b>77c</b></p>
<h3>JACKETS</h3> <p>Boys' tweed sport jacket, three button closing. Assorted tweeds. Sizes 4-6x.</p> <p>SPECIAL</p> <p><b>5.88</b></p>	<h3>JERSEY'S</h3> <p>Boys' long sleeve, round neck, interlock cotton jersey. Assorted colours with design on front. Sizes 2-6x.</p> <p>SPECIAL</p> <p><b>57c</b></p>	<h3>CAPS</h3> <p>Girls' 100% bulky acrylic cap, ties under the chin. Colour: Red with white trim.</p> <p>SPECIAL</p> <p><b>1.29, 1.47 AND 88c</b></p>

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