

Timely Notes On Fur Farming

Through the courtesy of Dr. C. K. Gunn we are enabled to present to this column the results of his years of study on the genetics of mutant mink. Dr. Gunn is one of the best, if not the best, authorities in America on the subject on which he has written, and we have been endeavoring for quite a long time to obtain the scientific information which his articles can give. It should be filled away for constant study by every mink breeder.

The mink ranchers in the United States have made great strides and the reason is that they have had scientific knowledge to guide them in their operations. To the writer it has been a difficult subject to obtain information on and we are grateful, and we are sure our readers will be grateful, to Dr. Gunn for enabling us to have this subject treated in such an intelligent and informative manner. We are publishing it in two parts—part one appears today and part two will appear next Saturday.

SOME NOTES ON THE GENETICS OF MUTANT MINK

There is considerable confusion at present in the literature in respect to mutation mink because of overlapping of similar color phase of genetically different types of mink. Added to the complexity of the above picture is the recently adopted, new nomenclature given to the pelts of certain strains of mink. It is the attempt to clarify this condition has been made by classifying mink solely on color phases in some of the recent live mink shows. This is approaching the problem along lines which are expected to be more equitable on the show table to the rancher of color phasing. The question is, does the method of judging mink by the rancher adequate advertising for the sale of his breeding stock, after he has developed improved strains of specific mutant types?

It would seem there are two sides to this question and each has its merits. However, if a long-term view is taken it must be obvious to mink ranchers that as more mutant types of mink are discovered, new double recessive blends, triple blends or quadruple blends developed, and still further color phases added to the above types as a result of the inclusion of the Breath-of-Spring and/or Stewart factor; the color phase question (phenotypes) versus that of the genetical make-up (genotypes) will continue to become more and more involved in the mink ranching industry. Accordingly, it may be advisable at this time to initiate a planned program to meet the rapidly approaching stage when many strains of mink will be almost identical in color, but will represent a considerable number of different genetical types.

The consumer public and manufacturers are chiefly interested in the general color and quality of a mink garment, but are not motivated by the particular genotype producing the color of a pelt provided there is no apparent difference in quality of the fur as a result of the different genotypes producing the same colored fur. Similarly, on the show table, the confusion will be greatly multiplied if each genetical strain of mink has to be allocated to a particular class based specifically on the genotype of the mink without due regard for the similarity of color in other genetical strains. Although in the present transitional state the allocation of different genetical strains (genotypes) of mink to a common designation or class based on color may seem to impose a hardship on the breeders, it would ap-

al Pastel x Platinum x Aleutian); B.O.S. Sapphire (Blufrost x Platinum x Aleutian).

2. Brown Types

Mutations — Royal, Green-eyed, Ungava Pastels; Sociat or Finish Pastel; Ambergold. (All are recessive mutant types). Double Blends — Ruby-eyed Pastel (Green-eyed x Royal Pastel); Ungava Ruby-eyed (Green-eyed x Ungava Pastel); Herman Pastel (Royal Pastel x Ungava Pastel) Platinum; Blond (Royal Pastel x Silverblu); Eric (Royal Pastel x Aleutian); Finlandia Topaz (Royal Pastel x Sociat Pastel). Triple Blends — Triple blended Pastel (Ungava x Royal x Green-eyed).

3. Beige Blends

Mutations — Palomino, Buff (Minnesota type); (Recessive mutations). Double Blends — Buff (Ambergold x Platinum). Triple Blends — Pearl (Palomino x Platinum x Aleutian); Buff (Ambergold x Blue Iris).

4. White Types

Mutations — (Recessive mutations) Albino, Hedlund; (Dominant mutations) Kohinur, Blufrost, Stewart modifying factor. Double Blends — Kohinur - Albino; Pastel - Albino; Kohinur Blufrost (i.e. 95% & 99% dominant whites). Triple Blends — Kohinur - Sapphires; (Kohinur x Platinum x Aleutian).

THE NOMENCLATURE OF MINK PELTS

Live Animal	Pelt (EMBA)
Aleutian (Gunmetal)	Lutetia
Blue Iris (Gunmetal)	Lutetia
Ruby-eyed Pastel	Topaze
Sapphire	Cerulean
Stewart Homozygous	Homo
Kohinur (Black Cross)	Royal Kohinur
White mink	Jasmine White

NAMES AND SYNONYMS

Name	Synonyms
Ungava Pastel	Imperial Pastel
Ungava Ruby-eyed Pastel	Ungava Topaze

Stewart Factor is a dominant modifying factor which not only lightens the existing color of a mink strain, but imparts a clearer bluish tinge to the existing fur color. This factor can be present in the hybrid state, giving rise to pale pelts or in the homozygous state (called "Homo"), in which the pelts then are extra pale. Pale and extra pale shades are in vogue at the writing of this material and demand the highest market values among mutation mink pelts.

However, when the dominant Stewart factor is present in the homozygous state, it usually causes such mink to become sterile, especially in the male sex. This defect of the Stewart types should be taken into consideration before mink ranchers introduce this factor into a prolific strain of mutant mink if the desired lighter coloration can be obtained in another natural mutant strain of mink.

Occasionally a Stewart type mink is mated to a Stewart type produces an all white mink. This white type, however, is sterile. With the addition of the Stewart factor and/or Breath-of-Spring in conjunction with the natural or inherent variation of mink pelts, they can be subdivided into the following five color phases:

- Dark (Medium) — Inherent Natural Variation.
- Light (Pale) — (Heterozygous) Stewart Factor and/or Breath-of-Spring.
- Extra Pale — (Homozygous) Stewart Factor.

In view of the five possible variations in color phasing which can be produced with each mutant and each blend of mutant

NEWSY NOTES

By J. A. Clark, D.S.E. A LAKELAND BAKERY

This week we visited the largest bakery in Lakeland, that bakes and distributes about 50,000 loaves per day within an area, in the Central section of Florida that has a radius of about seventy-five miles. The business manager, a Rotarian, took a group of us throughout the entire plant.

We first were shown the stock, two cars of flour and barrels of lard and vegetable fats and other supplies. Then we examined the mixing machines that take the various ingredients of the different types of bread according to formula, so that every loaf of each type is as nearly identical as possible.

Some of the materials being mixed were: Wheat flour, shortening, both vegetable fats and lard, salt, yeast, water and enriching tablets. This was the first time we had seen these things in orange in color, flat and round about one and a quarter inches in diameter and seemed three sixteenths of an

dihybrid (1) on the average half of the dihybrids will have the Stewart factor. If the dihybrids used in the second cross are each carrying a single Stewart factor, then 75% of the 16 genotypes will be of Stewart marked and 25% of these Stewarts will be homozygous (homo) for this factor. The Stewart marked types can readily be detected by their light and extra light color phases.

An example of the genetical types (genotypes) which result from a triple recessive blend, such as that of Sapphire crossed with Royal Pastel, to give the new triple recessive, called "Winterblu" is shown on page 45 in the publication "Mink Ranching" and this Sapphire mink crossed with Royal Pastel gives the following numbers and types:—

- No. 27 Dark (Standard) Mink
- 9 Royal Pastels
- 9 Silverblu
- 9 Aleutians
- 3 Sapphires (Silverblu-Aleutian blends)
- 3 Eric (Royal Pastel-Aleutian blends)
- 3 Platinum Blond (Royal Pastel-Silverblu blends)
- 1 Winterblu (triple recessive type)

An easier method to insure the production of "Pearl" mink is to start with an initial cross of a Palomino male with a number of Sapphire female mink. This first cross produces dark trihybrids, carrying factors for the three recessive mutant types, namely: Silverblu, Aleutian and Palomino. Example (5) shows the genetics of the initial cross of Sapphire and Palomino.

Sapphire x Palomino gives 100% Trihybrids. Cross the trihybrids back to Sapphires gives 25% dark, 25% Aleutian, 25% Silverblu and 25% Sapphires. (Note:— 50% of these Sapphire mink are carriers of the Palomino factor, accordingly, cross all Sapphires among themselves (half brother x half sister matings). From such crosses, the probability of producing a Pearl is one in four. However, crosses of Sapphires would include those of Sapphire x Sapphire, Sapphire (carrier of Palomino) x Sapphire, and Sapphire (carrier of Palomino) x Sapphire (carrier of Palomino).

Only the last cross (i.e. the carriers of Palomino) produce the "Pearls" and accordingly, from the above three types of crosses "Pearls" would occur on the average in one out of twelve kits. This method increases the probability for obtaining Pearls more than five times over the trihybrid x trihybrid method, which is one in sixty-four. (Note:— This shorter method to obtain a triple recessive blend can be used with any of the other combinations of double recessive blends and a recessive mutant type as listed above).

Fredericton

Continued from Page 9

Miss Mary Weeks, student at Notre Dame Academy, Charlottetown, was a visitor to her home in Fredericton on March 14th.

Mr. and Mrs. Francis Hill, Frenchfort, were recent visitors to Fredericton.

Master Allan MacKenzie, Beaverbrook, N. S., is visiting in Fredericton, the guest of Mr. and Mrs. William Morrison.

Mr. Randolph Nicholson, North Wiltshire, visited friends in Fredericton on March 14.

Mr. and Mrs. Wesley Murray, Halifax, N. S., returned to their home on March 15 after attending the funeral of Mr. Murray's mother, the late Mrs. Nelson Murray, Fredericton.

Mr. and Mrs. Edwin Rollings, North Rustico, were visitors to Fredericton on March 20, the guests of Mr. Lemuel Wyand and Miss Ella Wyand.

Mrs. Cyrus Martin, Glen Valley, P. E. I., was a visitor to Hunter River on March 22.

Rev. Alexander McDowell, Elmsdale, P. E. I., visited relatives in Fredericton on March 21.

Mr. Kenneth MacLean, Victoria, P. E. I., returned to his home after spending a few days visiting in Fredericton, the guest of Mr. and Mrs. Clinton Glyden.

Mr. John B. McDowell, Fredericton, is spending a few days visiting in Fredericton, the guest of Mr. and Mrs. McDowell.

"SABOTAGING" PIPE LINE

TORONTO (CP) — The Ontario Federation of Labor said Tuesday in a letter to Premier Frost that "powerful United States interests are bent on sabotaging plans for an all-Canadian pipe line." The 200,000-member organization urged the premier to have the provincial government operate a provincial distribution system for natural gas in conjunction with the proposed trans-Canada gas pipeline.

was kept scrupulously clean and all waste and cleaning material removed daily. They employ 149 persons and have an annual payroll of \$490,000.00.

The baking industry, among food manufacturers, has the largest number of employees, the greatest volume of items sold, and more plants and vehicles than any other. They report twenty thousand bakeries which supply forty million loaves of bread daily to the people of the United States. These bakeries pay out \$431 million dollars for flour; \$154 million for fats and other substances; \$117 million for eggs; \$67 million for fruit and \$5 million dollars for milk annually.

The bakeries have rigid quality and sanitary controls. The Lakeland Bakery had a large grey dumpster in its yard and the plant

Happenings

side after spending some time in Montreal with her daughter, Mrs. Victor Isaac. En route she stopped over with relatives in Truro and Pictou, N. S.

Mrs. P. W. Ranger of Providence, R. I. is visiting in Summerside, guest of her mother, Mrs. Edgar Clark.

Mrs. Albert Clark entertained at a family dinner one evening this week honoring her daughter, Miss Gwendolyn Clark, R. N. previous to her departure for her marriage in Newfoundland. Included among the guests was the bride's grandmother, Mrs. John W. Hogg, of Wilmot.

Miss Gwendolyn Clark, R. N., a member of the Phi Kappa branch of the Y's Menettes, was honored by its members who made her a presentation following a meeting on Monday evening.

Mr. and Mrs. H. K. Stright of Summerside have as their guest the former's mother, Mrs. J. L. Stright, of Pictou, N. S.

Rev. and Mrs. J. Donald McKay of Summerside spent the week-end in Eureka and New Glasgow, N. S.

Year-Old Boy Returns At 15

MONTREAL (CP)—A 15-year-old Yugoslav boy was reunited with his parents Sunday after an absence of 14 years.

When Brano Marich walked off a train at Montreal's Central station, it was the first time his parents, Mr. and Mrs. Novak Marich, had seen him since he was less than a year old.

Brano was still a baby when his father, a lieutenant in the Yugoslav army, was taken prisoner by the Germans. At about the same time, his mother was interned in a civilian work camp.

With his parents separated in German camps, Brano was left in Yugoslav and cared for by Mr. Marich's mother.

"We have big plans for Brano," his mother said. "He is going to university."

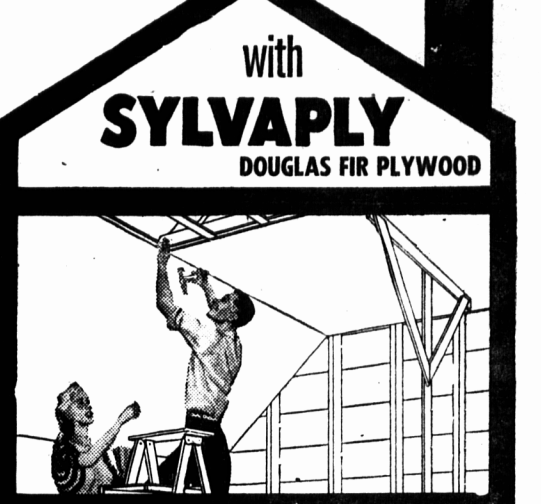
His father, 42, who studied law

in Paris and became a judge in Yugoslavia, said he was happy to see his son in Canada.

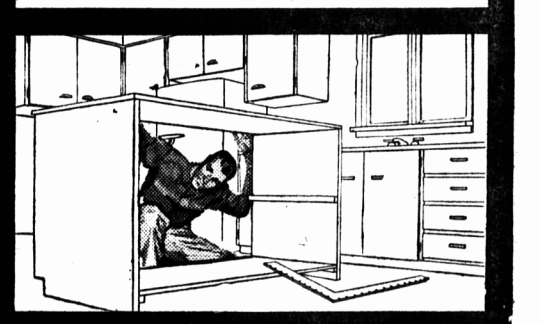
"Here there is freedom," he said, "and that is all that matters."

DEFACE ROOSEVELT STATUE LONDON (AP)—"Traitor of Yalta" was scrawled in red paint across the base of a statue of the late president Roosevelt in Grosvenor Square early today. The defacement was believed the work of a person angered by the disclosure in the Yalta conference papers released in Washington last week that the American president suggested handing over Hong Kong to China.

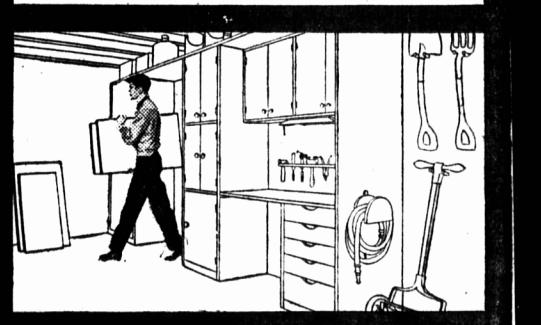
There is no illiteracy in Norway, where education has been compulsory since 1860.



How the family grows! Converting your attic to sleeping quarters for the youngsters can help to solve your space problems; it's a worthwhile project that can add greatly to the value of your home when you use real wood panels of plain or decorative Sylvaply. Because the big sheets of Sylvaply cover 32 square feet of wall, ceiling, or floor, at a time, you can do a quicker job with fewer joints.



Cupboards, shelving and other kitchen improvement projects cost less to build with self-framing 3/4 inch Sylvaply. Sylvaply saws as clean as other woods with power saw or hand saw; nails close to the edge without splintering. No tricky joinery either; simple glued and nailed butt-joints are possible with Sylvaply—just another reason why Sylvaply is the most popular home remodeling material.



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