The Role Of The Laboratory **Rat In Nutrition Research**

Long-term studies with labo- in the ARS Human Nutrition ponse to type of carbohydrate ratory rats are providing infor- Research Division as an effort of five rat strains, two of which plain food needs of people, mation that may help answer to determine why — and to have been maintained in the scientists have to know and some of the mysteries of human what extent — humans vary in Beltsville laboratory under study their specific inherited nutrition, the U.S. Department their nutritional requirements. identical conditions for more characteristics so as to properly of Agriculture reports.

is the knowlege that animals nutrition studies because of search indicate that metabolic lar diet can be measured grounds respond differently to the way they metabolize and use said yesterday.

al Conference on Laboratory carbohydate, fat, or cholesterol in some humans For instance,

Explaining that laboratory than 10 years. Among the resulting benefits rats are used extensively in their similarity to humans in patterns may vary in rats of dif-

D. C, described work with rats experiments dealt with res- duals sensitive to carbohydrates age, and sex of animal.

Lancaster Farming, Saturday, April 12, 1969-25

are being identified These people whose fat and glucose metabolism is not normal, are human beings do When it besaid to have a "high risk" potential for atherosclerosis.

When animals are used to exinterpret research results and establish a baseline upon which Results of this and other re- individual response to a particu-

Such characteristics as body various kinds of diets, a re-food, Mrs Marshall cited studies ferent strains as well as in in- size, body measurements, high food, Mrs Marshall cited studies Agricultural Research Service showing that the fat metabolism dividual rats within the same or low levels of blod cholesof two strains of rats differed strain Such variations, Mrs teiol, organ weights, liver comeven though both groups were Marshall said, may be due to a position, blood and body com-Mrs. Mary W. Maishall, in a fed the same diets The res- number of possible metabolic position, incidence of kidney talk before the 4th Internation- ponse varied with the type of defects, most of them also found disease, and degree of voluntary Animals held in Washington, contained in the food. Parallel an increasing number of indivi-

Cannot Perspire The dog cannot perspires as

comes warm in summer, it sticks out its tongue and pants, cooling off its body by the extra air it breathes in this way



WHEEL RAKES

for all having - 5 to 9-wheel models, special Y 74, 11-wheel unit Individual wheel suspension gets all the hay in any field at any speed.

BALE BUNCHER

cuts bale handling costs as much as 30%. Bales are bunched for fast, easy loading Simple design-trouble free operation.

WINDROW TURNER

mounts on nearly all makes tractors Speeds drying time. No window too large - none too small.



New & Used Tractors and Equipment

Authorized Farmhand Dealer CLYDE E. KEENER Intersection of Rt 72 & 230 Lancaster, Pa

Ph. 569-9861



CARNATION FARMS BREEDING SERVICE 067 CARNATION MILLION HEIR Reg. No. 1507983

Born: 6/27/66

067 CARNATION MILLION HEIR VG89

Million Heir has a golden pedigree that combines the breeding of Osborndale Ivanhoe, who is considered by many to be the greatest A.I. sire of all times, with that of Texal Rich-Herd Lıly, the powerful Excellent (94). All-American.

The size, strength and smoothness exhibited by Million Heir indicates he will sire tall, powerful daughters capable of high production.

HIS SIRE



OSBORNDALE IVANHOE Excellent - Gold Medal 14,818M 554F 10898 Daus. Avg. +630M +23F Pred Diff.



HIS DAM



TEXAL RICH-HERD LILY Excellent (94) 4E-1st 4E Cow of Breed 9v 3x 365 24,696M 3.8% 944F Also records of 814, 889, 898F

3361 Cl. Daus. Avg. 81.6 - 102.2% BAA

HIS MATERNAL SISTER



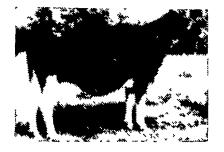
CARNATION SALLY TEXAL LILY Sold to Japan at 2 years 5y 3x 365 31,912M 838F (In Japan)

HIS MATERNAL SISTER



MAPLE LILY BURKE Excellent 6v 2x 365 19,824M 690F Her Daughter Excellent

LILY'S GRANDDAUGHTER



RICH-HERD IDEAL LAURA Excellent 4m 2x 365 15,162M 517F 3y 9m 2x 284 19,129M 700F 4v (inc)

JOSEPH P. TRAINOR, HONEY BROOK, PA.

Ph. 215-273-3847 or 717-768-3431



5 NEW MODELS

72-7hp, regular transmission 104-10hp, regular transmission 105-10hp, Hydrostatic Drive 124-12hp, regular transmission 125-12hp, Hydrostatic Drive

Full line of over 50 work saving attachments. Cub Cadet, best reason ever to make lawn and garden chores fun.

New Providence Ph: 786-7351