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Sweet Innocence.
"My wife is talking about raising some 'Jack' roses." "That so?" "Yes; she asked me last night if I couldn't get her a few jack pots to put 'em in."—Boston Transcript.

Term Originated With Lloyd's.
The term "A 1," a slang phrase popularly used to denote a high quality of excellence or a condition perfectly satisfactory, originated with Lloyd's agency in London. When a ship was being insured the rating "A 1" was placed opposite the name of the vessel to indicate absolute seaworthiness. The leading American financial reporting systems adopted the symbols, with variations, to indicate a business man's credit rating and capital.

BEE SPECIALIST SCHEDULED JULY 19th, 1921

Professor H. A. Scullen, Specialist in Bee Culture, will be in Crook County for two demonstrations on July 15th. Professor Scullen will be at the home of George Truesdale, Powell Butte, Oregon, at 10 o'clock A. M. and at the home of T. H. LaFollette, Prineville, Oregon, at two o'clock P. M. on the 15th, of July to give demonstrations on Bee Culture.

Professor Scullen will be prepared to answer any questions and show each step in Bee Keeping. There is foul brood in some of the colonies in this County. Do you know how to find it and how to eradicate it when found? Methods of transferring colonies from one hive to another will be discussed. Swarming and how to prevent it. Every person interested in Bee Culture is invited to be at either or both of these places.

W. B. Tucker, County Agent.

BALANCING A RATION FOR DAIRY COWS

Feed is the largest item of expense in connection with the production of milk. Successful dairying is consequently dependent to a large extent upon the judgment of the feeder selecting and combining feeds for his cows.

The problem of the feeder is to provide most economically the materials necessary to enable the cow best to accomplish her work. These materials are the digestible protein and carbohydrates and fats in the feeds, and are grouped under the general term of nutrients. The nutrients are used by the animal body as follows: The Protein is used mainly in the upkeep of the body and is the source of casein and albumen in the milk. The carbohydrates and fats supply the body with heat and energy and are the source of the fats and sugar in milk.

A ration is a day's feed, and when the proteins and other nutrients are present in the ration in the proportion to meet all the needs of the animal the ration is known as a balanced ration. The relation of the proteins to the other nutrients in the feed is called the nutritive ratio.

In order to balance a ration properly one must spend a little time in studying the subject and in becoming familiar with the composition and character of the various feed stuffs. Henry & Morrison's book on Feeds & Feeding is invaluable for this study. The nutritive ratio of all concentrates, roughage and succulents are given so that it is an easy matter to balance a ration composed of various feeds.

The first step in balancing a ration is to ascertain the requirements of the cow in feed or nutrients. These requirements are; for maintenance on up-keep of the body, and materials for producing milk. The amount of feed required is dependent upon the weight of the animal and the amount and richness of the milk. For example; a cow weighing 800 pounds requires, for maintenance, .56 pounds of protein, 5.78 pounds of carbohydrates and fat or a total of 6.34 pounds per day, while a cow weighing 1200 pounds requires .84 pounds protein, 8.87 carbohydrates and fat or a total of 9.51 pounds per day.

To produce one pound of 3 per cent. milk requires .047 pounds of protein, .240 pounds of carbohydrates or a total of 6 per cent. milk requires .067 pounds protein, .383 pounds of carbohydrates and fats. There is a great difference in the value of cows giving different amounts of milk. For example, two cows weighing 1000 pounds, one giving 10 pounds of 4 per cent. milk per day requires .7 tenths of a pound of protein or 7.93 digestible feed to keep up the body requirements, and .54 pounds of protein or 3.41 pounds of digestible feed to produce the 10 pounds of 4 per cent. milk. The other cow weighing the same requires the same amount for up-keep, but if she produces 40 pounds of milk per day she requires

2.16 pounds of protein or a total of 13.64 pounds of digestible nutrients. The first required a 1.24 pounds of protein and 11.34 pounds of digestible feed while the second giving four times the quantity of milk required only 2.86 pounds of protein or 21.54 pounds of digestible feed, or not quite twice the amount of feed to produce four times the quantity of milk. A greater variation applies to heavier producers so that the heavy producer is the best paying cow.

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J. W. Fincher, City Marshal

Sailors Saw Evil in Garlic.
It was an old belief that garlic exercised a baneful influence over the magnetic compass, and sailors when using the compass were not permitted to eat garlic or onions.

Re Daylight Saving.
A suburbanite wanted to know how he could set his rooster an hour ahead, whereupon a helpful friend advised him to exchange it for a hen, as it was easier to set a hen.

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